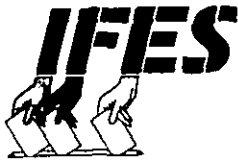


Date Printed: 11/06/2008

JTS Box Number: IFES_7
Tab Number: 6
Document Title: General Voters List Database Integrity
Analysis, Log Documentation
Document Date: 2001
Document Country: Macedonia
IFES ID: R01726



* 6 5 4 D 1 0 E D - E 6 A 1 - 4 D 1 3 - A F A B - C 1 E 9 8 1 5 C 6 5 7 4 *

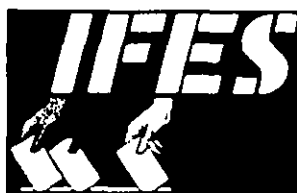


General Voters List – Database Integrity Analysis

Integrity Testing

Log Documentation

March 2001



**Macedonia General Voter List - Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 001

Date: 23 FEB 01 11:10 AM

Signatures of Persons On-Site during Execution:

S. Karadumov Dale Leake

Handover Description:

INITIAL IBM NETVISTA COMPUTER
SETUP

WINDOWS 2000 - PRELOADED

OFFICE 2000 PROFESSIONAL -

- INSTALLED USING IFES SOFTWARE
- TO BE REMOVED UPON COMPLETION OF ANALYSIS

SQL SERVER 7.0

- INSTALLED USING BUREAU OF STATISTICS COPY
- TO BE REMOVED UPON COMPLETION

INSTALLATION VERIFIED

PASSWORD SET UP BY IFES CONSULTANT

- PLACED IN ENVELOPE, SIGNED BY DALE LEAKE, SLOBODAN KARADUMOVIC, TO GO TO IFES OFFICE


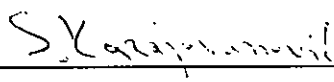


**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 002

Date: 23 FEB 01

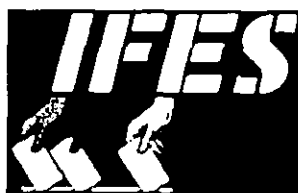
Signatures of Persons On-Site during Execution:

Handover Description:

MOVED VARIOUS SCRIPTS,
EXCEL, ACCESS DB, DLL FILE
TO ISM

- IFES COMPUTER TURNED OFF
dy 24



Macedonia General Voter List - Database Integrity Analysis
Material Handover Documentation Log

Document ID: 003

Date: 23/FEB/01

Signatures of Persons On-Site during Execution:

[Signature] SK [Signature]

Handover Description:

VOTER LIST TABLE LOAD TO SQL SERVER

~~BERVO-15897~~

- DATA PROVIDED ON CD ROM IN MUNICIPALITY TABLES
- DATA MOVED FROM CD ROM TO
C: \my docs \MACEDONIA\ACCESS DB\
- DBS 'READ ONLY' FLAG TURNED OFF
- EACH SEPARATE DB LOADED TO (34 TOTAL)
'Voters' Table in SQL Server 7.0
- REMOVE ACCESS DB FILES FROM
C: REFERENCE ABOVE
- CD RETURNED TO ALEX - [Signature]
DID NOT LOAD
~~DATA~~ NEPREZAVJANI - NON-CITIZENSHIP
DB ENTRIES -
- NOT INCLUDED IN LAST ELECTION VOTERS LIST

BEROVO	15897	
BITOLA	98814	
BROD	10111	
CAIR	74591	
CENTAR	74129	
DEBAR	19424	
DELCEVO	20823	
DEMIRHISAR	8913	
GAZIBABA	81822	
GEVGELIJA	27977	
GOSTIVAR	89500	
KARPOS	105043	
KAVADARCI	34049	
KICEVO	44463	
KISELAVODA	123522	
KOCANI	40428	
KRATOVO	8932	
KRIVAPALANKA	20724	
KRUSEVO	9876	
KUMANOVO	104456	
NEGOTINO	18249	
OHRID	57472	
PRILEP	79355	
PROBISTIP	12888	
RADOVIS	24145	
RESEN	17759	
STIP	42838	
STRUGA	52243	
STRUMICA	75735	
SVETINIKOLE	16804	
TETOVO	144374	
VALANDOVO	9576	
VELES	53882	
VINICA	16045	
	1634859	1634859

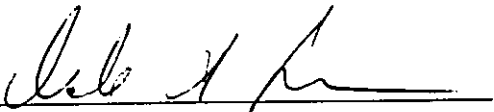
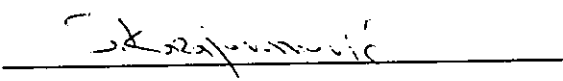


Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID: 004

Date: 23/FEB/01

Signatures of Persons On-Site during Execution:

Handover Description:

MOVED FROM CODE TABLES PROVIDED
TO IFES
FROM IFES LAPTOP COMPUTER

INHABITED places - Municipalities

Streets - after inhabited places

RELATION - polling station NEW

LOADED INTO SQL SERVER

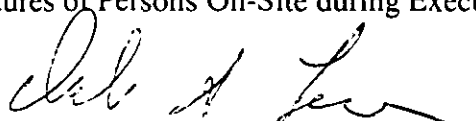
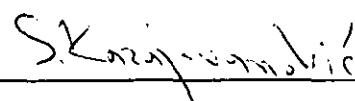


Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID: 005

Date: 23/FEB/01

Signatures of Persons On-Site during Execution:

Handover Description:

FILE REMOVED FROM BUREAU OF STATISTICS
ON FLOPPY DISK, BY IFES

EXCEL SPREADSHEET

LOAD COUNTS BY MUNICIPALITY



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 001

Date: 26 FEB 01

Signatures of Persons On-Site during Execution:

[Signature] [Signature]

Handover Description:

DOCUMENTS WITH HARD CODED
QUERY DESCRIPTIONS AND SQL
TO BE EXECUTED

MOVED FROM IFES COMPUTER TO FLOPPY DISK
PRINTED BY SLOBODAN



**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 002

Date: 26 FEB 01

Signatures of Persons On-Site during Execution:

Two handwritten signatures are present on a horizontal line. The first signature is on the left, and the second is on the right.

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily - as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

114650724 26/02/2001 10.51:13

TOTAL ROWS VOTERS 1634859 ROWS

Analysis of Results:

STARTED VALIDATE PROCESS APROX 9:52 AM
ENDED APROX 10:51 AM



Macedonia General Voter List - Database Integrity Analysis
Material Handover Documentation Log

Document ID: 003

Date: 26 FEB 01

Signatures of Persons On-Site during Execution:

dele x Loh SKojanovic

Handover Description:

- (A) MOVED UPDATED SCRIPTS FROM IFES
LAPTOP TO FLOPPY
- COPIED FLOPPY TO IBM NETVISTA
UNDER C:\MY DOCUMENTS\MACEDONIA\DATABASE
INTEGRITY TEST\QUERIES.
- (B) CREATE ADTL TABLES
- VOTERS - ADTL 1634859 rows created
- ADD AGE COLUMN
UPDATE AGE COLUMN = 2000 - (1 + ^{EMBB}YYY)
1634859 rows updated
- CREATE UNIQUE MUNICIPALITIES
124 Rows
- (OVER) REMOVED 'CO19 SKOPJE' ENTRY
- BROKE OUT INTO CO17 - CO16 -

✓ create primary key Voters ADTL - EMBG

✓ " " Voters - EMBG

✓ " " UNIQUE MUNICIPALITIES
- SIF_N_OF

✓ INHABITED places. Municipalities
- NumSTAT



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Total Voters

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to get a total population of the Voters Adtl table generated by the Create_Voters_Adtl script.

Database Query SQL:

```
select count(embg) as 'Total Voters Adtl'  
into Results_TotalVotersAdtl  
from voters_Adtl;
```

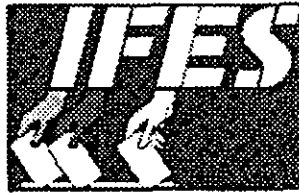
Query Execution Results:

TIME: 0:00:15

1634859 ROWS

Analysis of Results:

Chito A. L. L.
R. Newman



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 1

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to get a distinct list of EMBG Birth months to verify all months are valid.

Database Query SQL:

```
select distinct embg_dob_mm as 'Distinct EMBG Birth Month - Validate 1'  
into Results_Validate1  
from voters_Adt1  
order by embg_dob_mm;
```

Query Execution Results:

APPROX

Time : 00:01:00

2 Rows Returned

Analysis of Results:

John A. Rowan *H. Rowan*



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 2

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to get a distinct list of EMBG Birth day of the month to verify all days are valid.

Database Query SQL:

```
select distinct embg_dob_dd as 'Distinct EMBG Birth Day - Validate 2'  
into Results_Validate2  
from voters_Adtl  
order by embg_dob_dd;
```

Query Execution Results:

Time: 00:00:55

31 ROWS RETURNED

Analysis of Results:

del. H. L. P. Acov



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 3

Date: 26 Feb 01

Database Query Intent and Description:

The intent of this query is to get a distinct list of EMBG Birth years to verify all years are valid.

Database Query SQL:

```
select distinct embg_dob_yyy as 'Distinct EMBG Birth Year - Validate 3'  
into Results_Validate3  
from voters_Adtl  
order by embg_dob_yyy;
```

Query Execution Results:

Time: 0:00:56

88 Rows

Analysis of Results:

John A. Loh

S. V. Karayannov



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 4

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to get the EMBG max-calculated age to verify the calculated age is valid.

Database Query SQL:

```
select max(age) as 'Max EMBG Age Caculated - Validate 4'  
into Results_Validate4  
from voters_Adtl;
```

Query Execution Results:

Time : 0:00:51

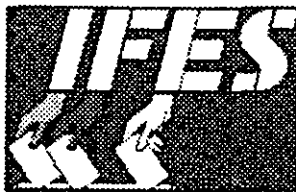
1 Row

Analysis of Results:

value 99 returned
= INVALID =

John A. Fike

S. Karagjorgiev



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Validate 5

Date: 26 Feb 01

Database Query Intent and Description:

The intent of this query is to get a list of EMBG Issue Authority codes to verify the codes are valid.

Database Query SQL:

```
select distinct embg_issue_auth as 'Distinct EMBG Issue Auth - Validate 5'  
into Results_Validate5  
from voters_Adtl  
order by embg_issue_auth;
```

Query Execution Results:

Time: 0:00:56

79 Rows

Analysis of Results:

Udo J. Loh

S. Karajovic



Query ID: Validate 6

Database Query Intent and Description:



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Validate 7

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the EMBG Gender code matches with the proper POL code.

Database Query SQL:

```
select count(embg_gender) as 'EMBG Gender and Pol - Validate 7'  
into Results_Validate7  
from voters_Adtl, voters  
where voters_adtl.embg = voters.embg and 499  
      (voters_adtl.embg_gender between 0 and 500) and  
      voters.pol != 1
```

Query Execution Results:

TIME 0:01:52

1 Row

— 32 —

Analysis of Results:

Handwritten signature: Dali X. K.

Handwritten signature: S. Karajivanovic



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 8

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the EMBG 'Male' Gender code matches with the proper POL code.

Database Query SQL:

```
select count(embg_gender) as 'EMBG Gender and Pol - Validate 8'  
into Results_Validate8  
from voters_Adtl, voters  
where voters_adtl.embg = voters.embg and  
      (voters_adtl.embg_gender between 500 and 999) and  
      voters.pol != 2 2
```

Query Execution Results:

TIME: 0:01:44

1 Row RE

COUNT - 41 Rows

Analysis of Results:

del I Lek

S. Stojanovic



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 8a

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the EMBG 'Male' Gender code matches with the proper POL code.

Database Query SQL:

```
select count(embg_gender) as 'EMBG Gender and Pol - Validate 8'  
into Results_Validate8a  
from voters_Adtl, voters  
where voters_adtl.embg = voters.embg and  
      (voters_adtl.embg_gender between 501 and 999) and  
      voters.pol != 2;
```

Query Execution Results:

TIME: 0:01:38

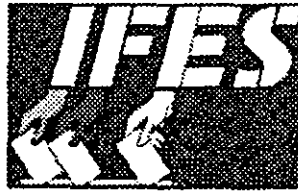
1 row

COUNT = 33 -

Analysis of Results:

Chad A. Loh

S. K. Rajaguru



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 9

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the Voters table IMU code validates against the Polling Station code table.

Database Query SQL:

select distinct imu
into Voters_imu
from voters
order by imu;

Time = 0:00:35

select count(imu) as 'Voters IMU - Validate 9'
into Results_Validate9
from voters_imu
where imu not in
(select imu from [relation_polling station_new municipality])

Time = 0:00:02

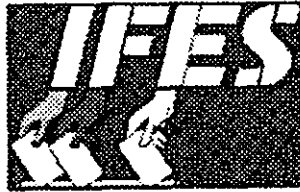
Query Execution Results:

- 2973 Rows on First Query

0 count on 2nd Query

Analysis of Results:

date x Pub J. H. H. H.



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 10

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the Voters table NMSTAT code validates against the Inhabited places_Municipalities code table.

Database Query SQL:

```
select distinct nmstat  
into Voters_nmstat  
from voters  
order by nmstat;
```

TIMB: (?)

```
select count(nmstat) as 'Voters NMSTAT - Validate 10'  
into Results_Validate10  
from voters_nmstat  
where nmstat not in  
    (select nmstat from [Inhabited places_Municipalities])
```

TIMB: 0'00:01

Query Execution Results:

2ND Query - 0 -

Analysis of Results:

date of file A. RETRAN



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 11

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the Voters table Street codes validate against the Streets_after_inhibited places code table.

Database Query SQL:

```
select distinct (nmstat + siful) as NmstatSiful  
into Voters_siful  
from voters  
order by (nmstat + siful);
```

TIME 01:00:28

```
select count(*) as 'Voters NMSTAT / SIFUL - Validate 11'  
into Results_Validate11  
from voters_siful  
where NmstatSiful not in  
    (select (nmstat + siful) from [Streets_after_inhabited places])
```

TIME 01:00:18

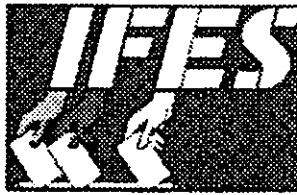
Query Execution Results:

8524 Rows Returned first query

COUNT 944 returned on second query

Analysis of Results:

Done & Lulu D. D. Nesper



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 12

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to validate that the Voters table Control Numbers (KBRM) validate against the check digit of the EMBG.

Database Query SQL:

```
select count(*) as 'Control Number - Validate 12'
into Results_Validate12
from voters, voters_Adtl
where voters.embg = voters_Adtl.embg and
      voters.kbrm != voters_Adtl.embg_chkdgt;
```

TIME: 0:02:39

Query Execution Results:

1486124 NOT MATCHED

Analysis of Results:

- INVALID UNDERSTANDING OF DATA COLUMN

THIS QUERY DOES NOT APPLY

SHOULD BE SKRISKIBR WITH KBRM

del X Lelu P. P. P. P.



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 13

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Polling Station (IMU).

Database Query SQL:

```
select imu, count(embg) as 'Total Registered Voters in IMU - Validate 13'  
into Results_Validate13  
from voters  
group by imu  
order by imu;
```

Query Execution Results:

Time 0:00:25

2973 TOTAL ROWS RETURNED

TOTAL SUM - 1634859 VOTERS

Analysis of Results:

Chale X Leka J. Petrop...



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Total Voters

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is to get a total population of the Voters List.

Database Query SQL:

```
select count(embg) as 'Total Voters'  
into Results_TotalVoters  
from voters;
```

Query Execution Results:

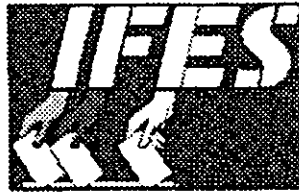
TIME: 0:00:16

1634859 rows

Analysis of Results:

John A. Lach

J. Peter



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 1

Date:

26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Inhabited Place (Nmstat).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + nmstat))  
as 'Total Distinct Surname, Name, Inhabited Place - Query 1'  
into Results_Query1  
from voters;
```

Query Execution Results:

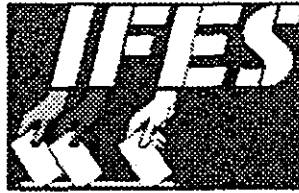
TIME : 0:03:17

COUNT 1486466 returned

Analysis of Results:

Delo V Loh

S. Karajovic



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 2

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Inhabited Place (Nmstat), Age.

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + voters.ime + voters.nmstat + voters_adtl.age))  
as 'Total Distinct Surname, Name, Inhabited Place, Age - Query 2'  
into Results_Query2  
from voters, voters_adtl  
where voters.embg = voters_adtl.embg;
```

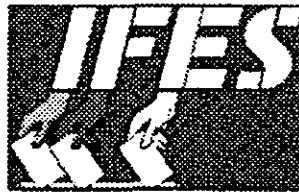
Query Execution Results:

TIME 0:05:10

COUNT 1,625,371 returned

Analysis of Results:

del. it like A. PER-er



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 3

Date: 26 Feb 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime) First Initial Only, Inhabited Place (Nmstat), Age.

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + substring(voters.ime,1,1) + voters.nmstat +  
voters_adtl.age))  
as 'Total Distinct Surname, Name First Initial, Inhabited Place, Age - Query 3'  
into Results_Query3  
from voters, voters_adtl  
where voters.embg = voters_adtl.embg;
```

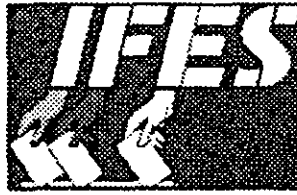
Query Execution Results:

TIME: 0:04:23

COUNT 1575916 -

Analysis of Results:

Det. J. Lukan R. New



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 4

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime) First Initial Only, Inhabited Place (Nmstat), Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + nmstat + pol))  
as 'Total Distinct Surname, Name, Inhabited Place, Gender - Query 4'  
into Results_Query4  
from voters;
```

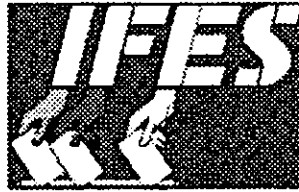
Query Execution Results:

TIME: 0:03:12

COUNT 1486586

Analysis of Results:

del X Lelu 11762000



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 5

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Inhabited Place (Nmstat), Age, Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + voters.ime + voters.nmstat + voters_adtl.age +  
voters.pol))  
as 'Total Distinct Surname, Name, Inhabited Place, Age, Gender - Query 5'  
into Results_Query5  
from voters, voters_adtl  
where voters.embg = voters_adtl.embg;
```

Query Execution Results:

TIME: 0:04:50

COUNT 1625380

Analysis of Results:

John A. Luke D. Peterson



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 6

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime) First Initial Only, Inhabited Place (Nmstat), Age, Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + substring(voters.ime,1,1) + voters.nmstat +  
voters_adtl.age + voters.pol))  
as 'Total Distinct Surname, Name First Initial, Inhabited Place, Age, Gender - Query 6'  
into Results_Query6  
from voters, voters_adtl  
where voters.embg = voters_adtl.embg;
```

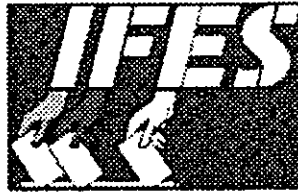
Query Execution Results:

Time: 0:04:49

COUNT 1584343 returned

Analysis of Results:

John A. Leek D. Nguyen



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 7

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Inhabited Place (Nmstat), Street Code (Siful)

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + nmstat + siful))
as 'Total Distinct Surname, Name, Inhabited Place, Street Code - Query 7'
into Results_Query7
from voters;
```

TIME: (?)

Query Execution Results:

RETURNED COUNT 1612420

Analysis of Results:

done by Luke P. Newman



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 8

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Inhabited Place (Nmstat), Street Name (Imeuls)

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + nmstat + imeuls))  
as 'Total Distinct Surname, Name, Inhabited Place, Street Name - Query 8'  
into Results_Query8  
from voters;
```

Query Execution Results:

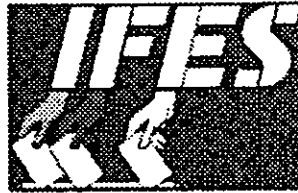
TIME: 01:05:10

COUNT 1612346 Returned

Analysis of Results:

deli A. Lile

2021/02/26



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Query 9

Date:

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Inhabited Place (Nmstat), Street Code (Siful), Street Name (Imeuls)

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + nmstat + siful + imeuls))  
as 'Total Distinct Surname, Name, Inhabited Place, Street Code, Street Name - Query 9'  
into Results_Query9  
from voters;
```

Query Execution Results:

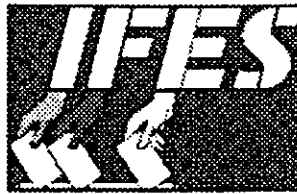
TIME: (?)

COUNT 1612441 returned

Analysis of Results:

File if per

SX 2010-00-01



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Query 11

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Municipality (Sif_n_op), Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + sif_n_op + pol))  
as 'Total Distinct Surname, Name, Municipality, Gender - Query 11'  
into Results_Query11  
from voters, [inhabited places_Municipalities]  
where voters.nmstat = [inhabited places_Municipalities].nmstat;
```

Query Execution Results:

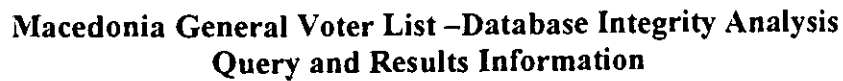
TIME: 0.03:57

COUNT 1433800 RETURNED

Analysis of Results:

John A. Luke

Y. Karajovic



Date: 26 FEB 01

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Municipality (Sif_n_op), Inhabited Place (Nmstat).

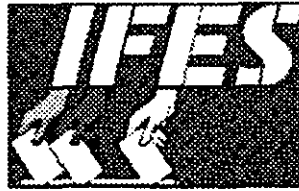
```
Select count(distinct(prezime + ime + sif_n_op + voters.nmstat))
as 'Total Distinct Surname, Name, Municipality, Inhabited Place - Query 12'
into Results_Query12
from voters, [inhabited places_Municipalities]
where voters.nmstat = [inhabited places_Municipalities].nmstat;
```

Time 0:04:13

Count 1486466 RETURN

Feb 1st 1892

Stappanovic!



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 13

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Municipality (Sif_n_op), Inhabited Place (Nmstat), Age.

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + voters.ime + a.sif_n_op + voters.nmstat +  
voters_adtl.age))  
as 'Total Distinct Surname, Name, Municipality, Inhabited Place, Age - Query 13'  
into Results_Query13  
from voters, voters_adtl, [inhabited places_Municipalities] a  
where voters.nmstat = a.nmstat  
and voters.embg = voters_adtl.embg;
```

TIME : 0:05:36

Query Execution Results:

COUNT 1625371 Returned

Analysis of Results:

John H. Lutz

SK [signature]



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Query 14

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime) First Initial Only, Municipality (Sif_n_op), Inhabited Place (Nmstat), Age.

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + substring(voters.ime,1,1) + a.sif_n_op +  
voters.nmstat + voters_adtl.age))  
as 'Total Distinct Surname, Name First Initial, Municipality, Inhabited Place, Age -  
Query 14'  
into Results_Query14  
from voters, voters_adtl, [inhabited places_Municipalities] a  
where voters.nmstat = a.nmstat  
and voters.embg = voters_adtl.embg;
```

Query Execution Results:

TIME: 01:05:32

COUNT 1575916 Returned

Analysis of Results:

John A. Smith

Stojanov



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 15

Date: 26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Municipality (Sif_n_op), Inhabited Place (Nmstat), Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(prezime + ime + sif_n_op + voters.nmstat + pol))  
as 'Total Distinct Surname, Name, Municipality, Inhabited Place, Gender - Query 15'  
into Results_Query15  
from voters, [inhabited places_Municipalities]  
where voters.nmstat = [inhabited places_Municipalities].nmstat;
```

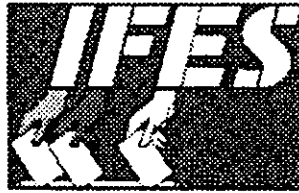
Query Execution Results:

Time: 0104:23

COUNT 1486586 RETURNED

Analysis of Results:

Sub 1 Sub 2. Type



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 16

Date:

26 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Municipality (Sif_n_op), Inhabited Place (Nmstat), Age, Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + voters.ime + a.sif_n_op + voters.nmstat +  
voters_adtl.age + voters.pol))  
as 'Total Distinct Surname, Name, Municipality, Inhabited Place, Age, Gender - Query  
16'  
into Results_Query16  
from voters, voters_adtl, [inhabited places_Municipalities] a  
where voters.nmstat = a.nmstat and  
voters.embg = voters_adtl.embg;
```

Query Execution Results:

TIME : 0.05:43

COUNT 1625380 returned

Analysis of Results:

Chel A. Feb

S. K. Konjomanovic



Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID:

Date: 30 FEB 01

1 of 2

Signatures of Persons On-Site during Execution:

[Signature] [Signature]

Handover Description:

ITEMS GIVEN TO IFES ON FLOPPY DISK

MOD 11 ROUTINE

-SQL SERVER TABLES

RESULTS-TOTALVOTERSADTL
RESULTS-VALIDATE 1
RESULTS-VALIDATE 2
RESULTS-VALIDATE 3
RESULTS-VALIDATE 4
RESULTS-VALIDATE 5
RESULTS-VALIDATE 6
RESULTS-VALIDATE 7
RESULTS-VALIDATE 8
RESULTS-VALIDATE 8a
RESULTS-VALIDATE 9
RESULTS-VALIDATE 10
RESULTS-VALIDATE 11
RESULTS-VALIDATE 12

RESULTS-VALIDATE 13
RESULTS-TOTALVOTERS
RESULTS-QUERY 1
RESULTS-QUERY 2
RESULTS-QUERY 3
RESULTS-QUERY 4
RESULTS-QUERY 5
RESULTS-QUERY 6
RESULTS-QUERY 7
RESULTS-QUERY 8
RESULTS-QUERY 9
RESULTS-QUERY 10
RESULTS-QUERY 11
RESULTS-QUERY 12
RESULTS-QUERY 13



Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID:

Date: 26 FEB 01 (2 of 2)

Signatures of Persons On-Site during Execution:

Chab A. Lk D. N. T. P.

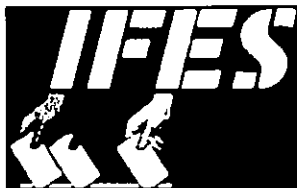
Handover Description:

ITEMS GIVEN TO IFES ON FLOPPY DISK

RESULTS-QUERY 14

RESULTS-QUERY 15

TABLES EXPORTED INTO SINGLE
EXCEL SPREAD SHEET

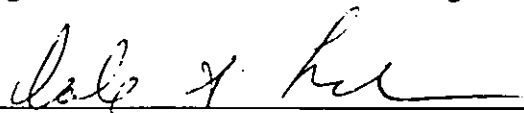
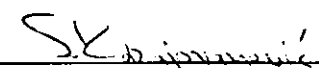


**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 004

Date: 26 Feb 01

Signatures of Persons On-Site during Execution:

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily - as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

STARTED APPROXIMATELY 14:32

FINISHED 15:23

CHECKSUM VALUE 114650724 - Same as morning run.

Analysis of Results:



**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 001

Date: 27 FEB 01

Signatures of Persons On-Site during Execution:

John A. Rehn Skarjovinski

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily – as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

- SELECT COUNT - 1634859 rows OK
- STARTED ROUTINE AT 9:42 AM
- FINISHED 10:30 AM
- CHUCKED OK

Analysis of Results:



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID:

Date: 27 FEB 01

Signatures of Persons On-Site during Execution:

Two handwritten signatures are present on a horizontal line. The first signature is in dark ink and appears to be 'V. A. Peh'. The second signature is in lighter ink and appears to be 'S. Ljajic'. Both signatures are written in a cursive, flowing style.

Handover Description:

MOVE FROM IFES LAPTOP

CREATE INDEXES SQL SCRIPT

EXECUTE IT ON IAM VOTERS TABLE

INHABITED PLACES MUNICIPALITIES



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Validate 4

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is to get the EMBG max-calculated age to verify the calculated age is valid.

Database Query SQL:

```
select max(age) as 'Max EMBG Age Caculated - Validate 4'
into Results_Validate4
from voters_Adtl;
```

Query Execution Results:

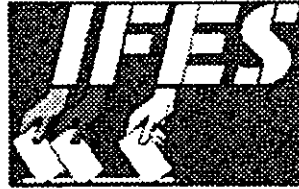
RERUN FROM 26 FEB 01 RESULTS
MODIFY AGE COLUMN TO INT
Rerun query

Analysis of Results:

Correct results of 105 based on
VYV value of 895.

Chale X. Lul

S. J. [signature]



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 17

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime) First Initial Only, Municipality (Sif_n_op), Inhabited Place (Nmstat), Age, Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL: voter_adtl. embg_dob-yyy

```
Select count(distinct(voters.prezime + substring(voters.ime,1,1) + a.sif_n_op +  
voters.nmstat + voters_adtl.age + voters.pol))  
as 'Total Distinct Surname, Name First Initial, Municipality, Inhabited Place, Age,  
Gender - Query 17'  
into Results_Query17  
from voters, voters_adtl, [inhabited places_Municipalities] a  
where voters.nmstat = a.nmstat and  
voters.embg = voters_adtl.embg;
```

Query Execution Results:

TIME: 01:04:36

Returned 1584343 rows

Analysis of Results:

Done & Later

S. K. 0207.2001



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Query 18

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Age.

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

Select count(distinct(voters.prezime + voters.ime + voters_adtl.embg. dob-yyy
as 'Total Distinct Surname, Name, Age - Query 18'
into Results_Query18
from voters, voters_adtl
where voters.embg = voters_adtl.embg;

Query Execution Results:

TIME 004:07

RETURNED 1542515 ROWS

Analysis of Results:

Done 27 Feb

SL design movie



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Query 19

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime), Age, Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + voters.ime + voters_adtl.age + voters.pol))  
as 'Total Distinct Surname, Name, Age, Gender - Query 19'  
into Results_Query19  
from voters, voters_adtl  
where voters.embg = voters_adtl.embg;
```

Query Execution Results:

Time: 03:50

RETURNED 1542626 ROWS

Analysis of Results:

Handwritten signature



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Query 20

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is calculate the total number of unique data entries by Surname (Prezime), Name (Ime) First Initial Only, Age, Gender (Pol).

This total count will be compared against the total count of the entire voters list.

Database Query SQL:

```
Select count(distinct(voters.prezime + substring(voters.ime,1,1) + voters_adtl.age +  
voters.pol))  
as 'Total Distinct Surname, Name First Initial, Age, Gender - Query 20'  
into Results_Query20  
from voters, voters_adtl  
where voters.embg = voters_adtl.embg;
```

Query Execution Results:

TIME: 0:03:18

Returned 1197343 Rows

Analysis of Results:

Chad J. Hub

S. K. ...



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Size of Households
Entire Voter List

Date: 27 Feb 01 1 of 2

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by ~~Polling Station~~ ^{MUNICIPALITY CODE} (IMU).

Database Query SQL:

```
select distinct sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans) as UniqueHousehold,  
    count(embg) as VoterCount  
into voters_Household_work  
from voters, [inhabited places_municipalities] a  
where voters.nmstat = a.nmstat  
group by sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans)  
order by sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans);
```

TIME: 0:03:28

358.647 rows
returned

```
select sif_n_op,  
    VoterCount,  
    Count(UniqueHousehold) as TotalHouseholds  
into voters_Household  
from voters_Household_work  
group by sif_n_op,  
    VoterCount  
order by sif_n_op,  
    VoterCount;
```

TIME:

NULL VALUE ELIMINATED FROM AGGREGATE
3255 ROWS RETURNED



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Size of Households
 Entire Voter List

Date: 27 FEB 01 2 of 2

Query Execution Results:

Analysis of Results:

John J. Loh

J. V. [unclear] [unclear]



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Number of Voters Per Household
By Municipality

Date: 27 FEB 01 (1 of 2)

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by ~~Polling Station~~ ^{MUNICIPALITY} (IMU).

Database Query SQL:

```
select distinct sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans) as UniqueHousehold,  
    count(embg) as VoterCount  
into voters_Household_work  
from voters, [inhabited places_municipalities] a  
where voters.nmstat = a.nmstat  
group by sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans)  
order by sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans);
```

NOTE: This next query is part of the Excel Visual Basic macro

IterateThroughHouseholds

Value for & rstMuni!sif_n_op & comes from a recordset processing against the
UniqueMunicipalities table generated by separate script.

```
select sif_n_op, VoterCount, Count(UniqueHousehold) as TotalHouseholds  
into voters_Household  
from voters_Household_work  
where sif_n_op = " & rstMuni!sif_n_op & " AND  
group by sif_n_op, VoterCount  
order by sif_n_op, VoterCount;
```



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Number of Voters Per Household **Date:** 27 FEB 01 (2. of 2)
By Municipality

Query Execution Results:

Analysis of Results:

Robt. A. Luba *J. J. [unclear]*



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Total by Gender
Entire Voter List

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Gender (Pol).

Database Query SQL:

```
select b.pol,  
       count(b.embg) TotalCount  
into TotalbyGender  
from [Inhabited places_Municipalities] a,  
     [Voters] b  
where a.nmstat = b.nmstat  
group by b.pol  
order by b.pol;
```

Query Execution Results:

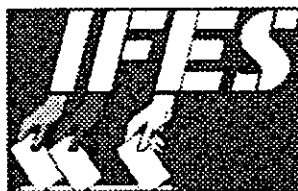
TIME: (?)

2 Rows

1 - 825194
2 - 809665

Analysis of Results:

Done at 11:11 AM 27 Feb 01



**Macedonia General Voter List –Database Integrity Analysis
Query and Results Information**

Query ID: Total by Gender
By Municipality

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Gender (Pol).

Database Query SQL:

NOTE: This query is part of the Excel Visual Basic macro IterateThroughMunis
Value for & rstMuni!sif_n_op & comes from a recordset processing against the
UniqueMunicipalities table generated by separate script.

```
SELECT case pol when 'M' then 'Male'
        when 'F' then 'Female'
        else 'Error' end as Gender,
        COUNT(embg) as Totals
FROM voters, [inhabited places_Municipalities]
WHERE sif_n_op = " & rstMuni!sif_n_op & " AND
      voters.nmstat = [inhabited places_Municipalities].nmstat
GROUP BY pol
```

Query Execution Results:

Analysis of Results:

Lab A Lee

7. Петров



**Macedonia General Voter List –Database Integrity Analysis
Query and Results Information**

Query ID: Total by Gender Birth Year/Month
Entire Voter List

Date:

27 FEB 01 (Q. All)

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Gender (Pol) and Birth year and month.

Database Query SQL:

```
SELECT stf_a_op,  
       case pol when '1' then 'Male'  
       when '2' then 'Female'  
       else 'Error' end as Gender,  
       '1' + embg_dob_yyy + embg_dob_mm as BirthMonth,  
       COUNT(voters.embg) as Totals  
From voters, voters_adtl, [Inhabited places_Municipalities] a  
WHERE voters.nmstat = a.nmstat and  
       voters.embg = voters_adtl.embg  
GROUP by pol, ('1' + embg_dob_yyy + embg_dob_mm)  
order by pol, ('1' + embg_dob_yyy + embg_dob_mm)
```

00:01:45

Query Execution Results:

1479 Rows

Analysis of Results:

Jul 1 1991

Stojanovic



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Voters by Birth Year/Month
Date: By Municipality

27 FEB 07 (1 of 2)

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Birth Year/Month.

Database Query SQL:

NOTE: This query is part of the Excel Visual Basic macro
IterateThroughGenderBirthMonth
Value for & rstMuni!sif_n_op & comes from a recordset processing against the
UniqueMunicipalities table generated by separate script.

```
SELECT sif_n_op,  
       case pol when 'M' then 'Male' m  
             when 'F' then 'Female' 2  
             else 'Error' end as Gender,  
       '1' + embg_dob_yyy + embg_dob_mm as BirthMonth,  
       COUNT(voters.embg) as Totals  
From voters, voters_adtl, [Inhabited places_Municipalities] a  
WHERE sif_n_op = " & rstMuni!sif_n_op & " AND  
       voters.nmstat = a.nmstat and  
       voters.embg = voters_adtl.embg  
GROUP by a.sif_n_op, pol, ('1' + embg_dob_yyy + embg_dob_mm)  
order by pol, ('1' + embg_dob_yyy + embg_dob_mm)
```



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Macedonia General Voter List - Database Integrity Analysis
Query and Results Information

Query ID: Voters by Birth Year/Month Date:
By Municipality

27 FEB 01 (2 of 2)

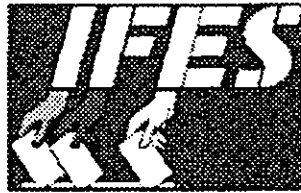
Query Execution Results:

Analysis of Results:

* LOOK INTO INDEXES

Chale H. Luke

S. Karapetrovic



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Total by Gender / Age
Entire Voter List

Date: 27 FEB 01

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Gender (Pol).

Database Query SQL:

```
select b.pol, c.age, count(b.embg) TotalCount
into TotalbyGenderAge
from [Inhabited places_Municipalities] a, Voters b, voters_Adtl c
where a.nmstat = b.nmstat and
      b.embg = c.embg
group by b.pol, c.age
order by b.pol, c.age;
```

TIME : (?)

Query Execution Results:

172 ROWS RETURNED

Analysis of Results:

Paul M. Loh *E. Peterson*



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID:

Date: 27 FEB 01

Signatures of Persons On-Site during Execution:

Clab A. Loh S. K. Rajewski

Handover Description:

ITEMS GIVEN TO IFES ON FLOPPY DISK

MODULNN.ZIP

RESULTS_VALIDATE4a

RESULTS_QUERY17

RESULTS_QUERY18

RESULTS_QUERY19

RESULTS_QUERY20

VOTERS_HOUSEHOLD

✓CONNECT STRING INFO

ITERATE THROUGH HOUSEHOLDS.XLS

ITERATE THROUGH MONTHS.XLS

TOTAL BY GENDER AGE

TOTAL BY GENDER

ITERATE THROUGH GENDER BIRTH MONTH

TOTAL BY GENDER BIRTH MONTH.XLS

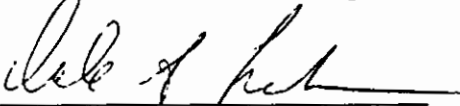
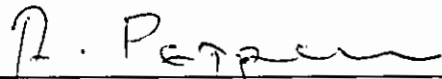


**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 001

Date: 28 FEB 01

Signatures of Persons On-Site during Execution:

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily - as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

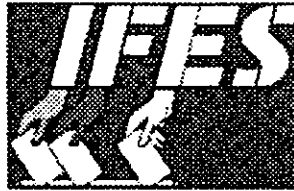
Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

STARTED 10:01
ENDED 10:43

OK - SAME VALUE
OK - J. P. Papan

Analysis of Results:



**Macedonia General Voter List –Database Integrity Analysis
Query and Results Information**

Query ID: ^{Gender} Voters by Age
By Municipality **Date:** 28 FEB 01

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Birth Year/Month.

Database Query SQL:

NOTE: This query is part of the Excel Visual Basic macro
IterateThroughGenderAge
Value for & rstMuni!sif_n_op & comes from a recordset processing against the
UniqueMunicipalities table generated by separate script.

```
SELECT sif_n_op,  
       case pol when 'M' then 'Male'  
             2 when 'F' then 'Female'  
             else 'Error' end as Gender,  
       age as Age,  
       COUNT(voters.embg) as Totals  
From voters, voters_adtl, [Inhabited places_Municipalities] a  
WHERE sif_n_op = " & rstMuni!sif_n_op & " AND  
       voters.nmstat = a.nmstat and  
       voters.embg = voters_adtl.embg  
GROUP by a.sif_n_op, pol, age order by pol, age"
```

START 11:42 AM
END 11:53



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Voters by Age
By Municipality

Date: 28 FEB 01

Query Execution Results:

Analysis of Results:

John A. Fisher

S. Karajovic



**Macedonia General Voter List –Database Integrity Analysis
Query and Results Information**

Query ID: Household Data
Entire Voter List

Date: 28 FEB 07

Database Query Intent and Description:

The intent of this query is to list the distinct values that relate to household identification.

Database Query SQL:

```
select distinct voters.nmstat, siful, brojs, dods, vlezs, stans  
into Results_HouseholdData  
from voters, [inhabited places_municipalities] a  
where voters.nmstat = a.nmstat  
order by voters.nmstat, siful, brojs, dods, vlezs, stans;
```

0: 00:40

Query Execution Results:

Analysis of Results:

deli H. Lili

Stojanovic



Macedonia General Voter List - Database Integrity Analysis
Material Handover Documentation Log

Document ID: 002

Date: 28 FEB 01

Signatures of Persons On-Site during Execution:

Val A. Lur J. Petren

Handover Description:

MOVED FROM IFES LAPTOP TO IBM

EXE ITERATE THROUGH GENDER AGE .xls

EXE ITERATE THROUGH GENDER BIRTH MONTH .xls

EXE ITERATE THROUGH HOUSEHOLDS .xls

EXE ITERATE THROUGH MUNIS .xls

add later

QUERY - HOUSEHOLD DATA .SQL

QUERY - TOTAL BY GENDER BIRTH DATE .SQL

dy
52.



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: Total by Gender Birth Year/Month **Date:**
Entire Voter List

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters by Gender (Pol) and Birth year and month.

Database Query SQL:

```
SELECT sif_n_op,  
       case pol when '1' then 'Male'  
       when '2' then 'Female'  
       else 'Error' end as Gender,  
       '1' + embg_dob_yyy + embg_dob_mm as BirthMonth,  
       COUNT(voters.embg) as Totals
```

```
From voters, voters_adtl, [Inhabited places_Municipalities] a  
WHERE voters.nmstat = a.nmstat and  
       voters.embg = voters_adtl.embg  
GROUP by pol, ('1' + embg_dob_yyy + embg_dob_mm)  
order by pol, ('1' + embg_dob_yyy + embg_dob_mm)
```

INTO TOTAL BY GENDER BIRTH
MONTH

TIME:

Query Execution Results:

1979 Rows Returned

Analysis of Results:

Del S. Lh

S. Kojanov



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 003

Date: 28 FEB 01

Signatures of Persons On-Site during Execution:

Mark A. Loh S. Krizanov

Handover Description:

Items Given To IFES

ITERATE THROUGH GENDER, X/5

RESULTS - HOUSEHOLD DATA

TOTAL BY GENDER BIRTH MONTH

ll



**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID:

004

Date:

28 FEB 07

Signatures of Persons On-Site during Execution:

Mark A. Luhn S. Stojanovic

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily – as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

CHECKSUM VALUE SAME.

Analysis of Results:



**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 001

Date: 01 MAR 01

Signatures of Persons On-Site during Execution:

delj of Loh *S. X. Kojanovic*

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily - as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

STARTED APPROX. 9:54 AM
FINISHED 11 10:36 AM

OK.

Analysis of Results:



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 002

Date: 01 MAR 01

Signatures of Persons On-Site during Execution:

Dele A. Lili S. Kojanovic

Handover Description:

ITEMS MOVED FROM IFES COMPUTER TO
IBM NET VISTA:

CREATE_VOTERS_MONI.SQL

QUERY_SIZE_OF_HOUSEHOLD_2.SQL



Macedonia General Voter List - Database Integrity Analysis Query and Results Information

Query ID: Size of Households (2)
Entire Voter List

Date: 01 MAR 01

Database Query Intent and Description:

The intent of this query is to list the total number of registered voters within each household with a street code not 0, spaces or null. This query is the second query executed to accommodate a further analysis of households because of the way village data is contained on the database. Villages or settlements use the same distinct household data for the entire settlement. The intent of this analysis is to drill down further than the original household analysis eliminating the common village references.

Database Query SQL:

```
select distinct sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans) as UniqueHousehold,  
    count(embg) as VoterCount  
into voters_Household_work  
from voters, [inhabited places_municipalities] a  
where voters.nmstat = a.nmstat and  
    siful not in ('0', NULL) AND SIFUL != '' AND SIFUL != 0  
group by sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans)  
order by sif_n_op,  
    (voters.nmstat + siful + brojs + dods + vlezs + stans);
```

```
select sif_n_op,  
    VoterCount,  
    Count(UniqueHousehold) as TotalHouseholds  
into voters_Household  
from voters_Household_work  
group by sif_n_op,  
    VoterCount  
order by sif_n_op,  
    VoterCount;
```



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Voters Muni Analysis
Selected Municipality

Date: 01 MAR 01

Database Query Intent and Description:

The intent of this query is to further analyze the household size anomaly within the Voters tables. The Voters_Muni_(nnnn) table will NOT be removed from the IBM NetVista computer located at the Bureau of Statistics. This analysis is done to provide visual analysis of the Specific Voters included in a select household unit.

Database Query SQL:

```
sselect Voters.*
into Voters_Muni_10589999
from voters, INHABITED PLACES_Municipalities a
where sif n op = 9999 1058 and voters.nmstat = a.nmstat
order by embg;
```

Query Execution Results:

Analysis of Results:

A Some similar - need further analysis with
data from other ministries, Bureaus.

del of like S. Y. ...



**Macedonia General Voter List - Database Integrity Analysis
Query and Results Information**

Query ID: Size of Households (2)
Entire Voter List

Date: 01 MAR 01

Query Execution Results:

TIME : 0:06:51

FIRST QUERY 357,888 rows

3144 Rows

TIME : 0:00:03

Analysis of Results:

WARNING: NULL VALUE ELIMINATED from aggregate

del & L

SX 02/01/01



**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 003

Date: 01 MAR 01

Signatures of Persons On-Site during Execution:

 Del A. Lek *D. Negrum*

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily - as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

STARTED APPROX. 12:53 PM

FINISHED APPROX. 13:45 PM

OK

Analysis of Results:



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 004

Date: 01 MAR 01

Signatures of Persons On-Site during Execution:

date & place A. Permin

Handover Description:

ITEMS REMOVED FROM IBM NOTVISTA AND
GIVEN TO IFES

VOTERS. HOUSEHOLD - 2

ZIP OF MACEDONIA AND ALL SUBDIRECTORIES



Macedonia General Voter List - Database Integrity Analysis
Material Handover Documentation Log

Document ID: 001

Date: 05 MAR 01

Signatures of Persons On-Site during Execution:

clab A Luk PI. PETAR

Handover Description: IBM ^{TO} IFES COMPUTER

(orig)	Query - gender - age - Skopje. sql	Results - gender - age - Skopje (984)
(orig)	Query - gender - birthmonth - Skopje. sql	Results - gender - birthmonth - Skopje (9740 rows)
(orig)	Query - households - Skopje. sql	Results - households - Skopje sql
	Query - voters by muni	Results - voters by muni
	Query - Results by muni - nmstat. sql	Results - voters by muni - nm stat
	Query - gender - age - Skopje - matice nbroj	* Results - gender - age - Skopje - (1116 rows) matice nbroj
	Query - gender - age - Skopje - matice nbroj	Results - gender - birthmonth - Skopje - matice nbroj (12013)
	Query - Size of house hold - matice nbroj	* voters - House hold - matice broj

Q

TABLES

Results - households - Skopje
matice nbroj
Results - ~~gender~~ ^{Total} by gender - Skopje
Results - total by gender - Skopje - matice nbroj



**Macedonia General Voter List -Database Integrity Analysis
Daily Database Checksum Verification**

Query ID: 001

Date: 06 MAR 01

Signatures of Persons On-Site during Execution:

Two handwritten signatures are present on a horizontal line. The first signature is on the left, and the second is on the right.

Database Query Intent and Description:

The intent of this process is to validate that the database contents has not been compromised. This process will be run twice daily – as the first process in the morning and last process prior to departure. The process will write to table on the SQL Server database as well as to a diskette that will be taken offsite each day.

Database Query SQL:

Validate.mdb containing basTableChecksum VB module to perform

Query Execution Results:

STARTED 8:51 AM
COMPLETED 9:46 AM

Analysis of Results:



**Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log**

Document ID: 002

Date: 06 MAR 01

Signatures of Persons On-Site during Execution:

date of file A. ACT per

Handover Description:

Items moved FROM IFES COMPUTER TO IBM.

[duplicate - Query 5.sql.txt
date.txt

~~extract 5 - matricenbrj count~~



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: 003

Date: 06 MAR 01

Database Query Intent and Description:

IN DEPTH ANALYSIS OF QUERY 5

Database Query SQL:

- CREATE VOTERS DISTINCT5 TABLE 1634859 ROWS
- SET PK EMBG - CREATE IX ON DISTINCT5 SELECTION
- create voter-distinct5-dups - 18468

Query Execution Results:

Analysis of Results:

John A. Loh

A. P. C. T. P.

18448 TOTAL IDENTIFIED

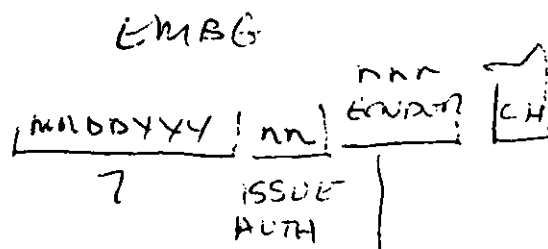
8969 TOTAL DISTINCTS

1015

1051

1058

1082



000-499 M—

500-999 F—

000

001

002

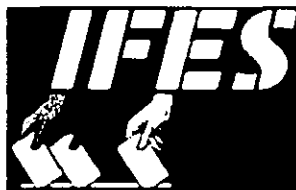
003

3

500

601

}



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: 004

Date: 06 MAR 01

Database Query Intent and Description:

IN DEPTH ANALYSIS OF QUERY 9

Database Query SQL:

Query Execution Results:

Analysis of Results:

del A. Lika A. Pagon

1st query
20964 Rows

- 43382 Rows



Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID: 005

Date: 06 MAR 01

Signatures of Persons On-Site during Execution:

[Signature] [Signature]

Handover Description:

BEROVO	-	0	-	15897
BITOLA	-	0	-	98814
BROD	-	0	-	10111
CAIR	-	2	-	74589
CENTAR	-	1	-	74128
DEBAR	-	0	-	19424
DELCEVO	-	0	-	20823
DEMIRHISAR	-	0	-	8943
GAZIBABA	-	0	-	81822
GEVULJA	-	0	-	27977
GOSTIVAR	-	1	-	39499
KARPOS	-	0	-	105043
KAVADARCI	-	0	-	34049
KICEVO	-	0	-	44463
KIDELAVODA	-	0	-	123522
KOCANI	-	0	-	40428
KRATOVO	-	0	-	8932
KUJAPALANCA	-	0	-	20724
KUSEVO	-	0	-	9876
KUMANOVO	-	0	-	104456
NEGOTINO	-	0	-	18249
PRILE	-	2	-	57470
PRILE	-	1	-	79354
PROBITIP	-	0	-	12888
RAKUS	-	0	-	24145
RESEN	-	0	-	17759
STIP	-	0	-	42838
STRUGA	-	0	-	52243
STRUMICA	-	0	-	75735
SVEVINIKOLE	-	0	-	16804
TICVO	-	0	-	144374
VALANDOVO	-	0	-	9576
VOLES	-	1	-	83881
VUNICA	-	0	-	16045



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: 006

Date: 06 MAR 01

Database Query Intent and Description:

IN DEPTH QUERY ANALYSIS OF QUERY 6

Database Query SQL:

Query Execution Results:

Analysis of Results:

John A. Loh

A. P. Loh

1634859 Rows

44154 Rows

94670 Rows

94670 Rows

MUNI

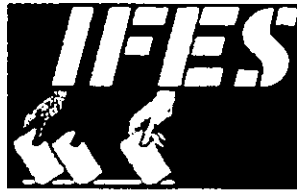
1015

OAZIM PALE

FERATI

< ABDULVEAP MILIOITE
ABDILVEAP MILIOITE >

FATHER / MOTHER



Macedonia General Voter List -Database Integrity Analysis
Query and Results Information

Query ID: 007 Query 19a Date: 06 MAR 01

Database Query Intent and Description:

(^{SUR}name + name + dob + gender)

Database Query SQL:

Query Execution Results:

Returned 1634859
1634340
diff 519

Analysis of Results:

John A. Rubin

D. J. E. T. M.



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: 208

Date: 06 MAR 01

Database Query Intent and Description:

IN DEPTH QUERY ANALYSIS OF QUERY 19A

Database Query SQL:

Query Execution Results:

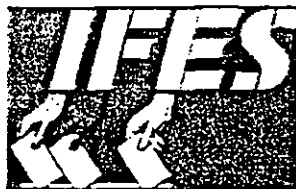
APPEARS TO BE ALL DUPLICATED

Analysis of Results:

lll

John A. Loh

A. Paper



Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID: 009

Date: 06 MAR 01

Signatures of Persons On-Site during Execution:

Willy J. Kuhn A. Pfeiffer

Handover Description:

ITEMS MOVED FROM IBM COMPUTER TO IFES COMPUTER

CREATE_INDEXES.SQL

distinct5-maticenbroj-count

distinct9-maticenbroj-count

distinct6-maticenbroj-count

distinct19-maticenbroj-count

query.Possible-duplicates.sql

duplicate-query5.sql

duplicate-query6.sql

duplicate-query7.sql

duplicate-query19.sql



**Macedonia General Voter List –Database Integrity Analysis
Query and Results Information**

Query ID: 001

Date: 07 MAR 01

Database Query Intent and Description:

INDEPTH ANALYSIS OF QUERY 14

Database Query SQL:

Query Execution Results:

Analysis of Results:

File of Lk

D. P. D. P.

- 1634859 rows
- 51367 rows
- 110310 rows
- 110310 rows

- FEW DUPS

APPEARS DUPS ARE RESULT OF
ANOMALIES IN BIRTH MONTH, DAY

APPEARS ISSUE WITH OFFICE = and
GUNDOR ORDER CLOSE TO
ENCL ORDER

(LAST and FIRST
- NAMES Sometimes
have leading spaces



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: 002

Date: 07 MAR 01

Database Query Intent and Description:

IN DEPTH ANALYSIS OF QUERY 15

Database Query SQL:

Query Execution Results:

Analysis of Results:

John A. Lohr

A. J. Thompson

1634859 rows -

23667 rows

48986 rows

48986 rows

CHANGED TO USE

RUNNING POLLING STATION

TABLE

NOTHING DIFFERENT,
SIGNIFICANT.

Redid using original ~~SQL~~ SQL SYNTAX

1634859

94259 rows

242532



**Macedonia General Voter List -Database Integrity Analysis
Query and Results Information**

Query ID: 003

Date: 07 MAR 01

Database Query Intent and Description:

IN DEPTH ANALYSIS OF QUERY 10

Database Query SQL:

Query Execution Results:

Analysis of Results:

John A. Kohn

J. D. Thompson

1634859 rows

12257 rows

25318 rows

noticed many

EMBLs - differ
same issue
Segu Birthorder

but listed in different inhabited code

1938	02 16	507	} EVERYTHING ELSE SAME
	02 17	510	

STREET NAME - BLANK

ALSO 'NASEZBA BEZ ULICEN'
SYSTEM

'NO DECLARATION OF STREET NAME'



Macedonia General Voter List -Database Integrity Analysis
Material Handover Documentation Log

Document ID:

004
~~003~~
~~002~~ 19a

Date:

~~06 MAR 2001~~ / 07 MAR 2001

Signatures of Persons On-Site during Execution:

Val X Lk 2.7.07

Handover Description:

Moved FROM IBM COMPUTER TO IFES COMPUTER.

distinct 10 - matcen broj count
distinct 14 - matcen broj count
distinct 15 - matcen broj count

duplicate - query 14.sql
duplicate - query 15.sql
duplicate - query 10.sql