
Posted by [olegvk2000](#) on Mon, 05 Feb 2024 16:48:03 GMT

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```
select count(*) from turist_list_detal
```

```
PLAN (TURIST_LIST_DETAL NATURAL)
```

```
Current memory = 850 100 512
```

```
Max memory = 850 759 088
```

```
Memory buffers = 50 000
```

```
Reads from disk to cache = 185 058
```

```
Writes from cache to disk = 0
```

```
CREATE TABLE TURIST_LIST_DETAL (  
  UID          T_UID NOT NULL /* T_UID = BIGINT NOT NULL */,  
  COD_COUNTRY  T_COD_COUNTRY NOT NULL /* T_COD_COUNTRY =  
CHAR(3) */,  
  UID_LIST     T_UID NOT NULL /* T_UID = BIGINT NOT NULL */,  
  UID_TRAVEL   T_UID NOT NULL /* T_UID = BIGINT NOT NULL */,  
  LAST_NAME    T_A64 NOT NULL /* T_A64 = VARCHAR(64) */,  
  FIRST_NAME   T_A64 /* T_A64 = VARCHAR(64) */,  
  BIRTHDAY     T_DATE /* T_DATE = DATE */,  
  POLIS_NUMBER T_A64 /* T_A64 = VARCHAR(64) */,  
  DATE_IN      T_DATE NOT NULL /* T_DATE = DATE */,  
  DATE_OUT     T_DATE NOT NULL /* T_DATE = DATE */,  
  FRANSHISE    T_MONEY /* T_MONEY = NUMERIC(15,2) */,  
  KOL_DAY      COMPUTED BY (CAST((DATE_OUT - DATE_IN + 1) as  
Integer)),
```

```

SUMMA_IC      T_MONEY /* T_MONEY = NUMERIC(15,2) */,
SUMMA_IC_PREMIA T_MONEY DEFAULT 0 NOT NULL /* T_MONEY =
NUMERIC(15,2) */,
COD_VALUT_IC  T_COD_VALUT DEFAULT 'USD' NOT NULL /* T_COD_VALUT
= CHAR(3) */,
IC_PROGRAM    T_A3 /* T_A3 = VARCHAR(3) */,
IC_COD        T_A3 /* T_A3 = VARCHAR(3) */,
IS_VIP        COMPUTED BY ((select turist_list.is_vip from turist_list
where
(
(turist_list.uid = UID_LIST)
)))
);

```

```

/*****
Primary keys
*****/
/*****/

```

```

ALTER TABLE TURIST_LIST_DETAL ADD CONSTRAINT PK_TURIST_LIST_DETAL PRIMARY
KEY (UID);

```

```

/*****/
Foreign keys
*****/
/*****/

```

```

ALTER TABLE TURIST_LIST_DETAL ADD CONSTRAINT FK_TURIST_LIST_DETAL_1
FOREIGN KEY (UID_LIST) REFERENCES TURIST_LIST (UID) ON DELETE CASCADE ON
UPDATE CASCADE;
ALTER TABLE TURIST_LIST_DETAL ADD CONSTRAINT FK_TURIST_LIST_DETAL_2
FOREIGN KEY (COD_COUNTRY) REFERENCES COUNTRY (COD_COUNTRY) ON UPDATE
CASCADE;
ALTER TABLE TURIST_LIST_DETAL ADD CONSTRAINT FK_TURIST_LIST_DETAL_3
FOREIGN KEY (UID_TRAVEL) REFERENCES CLIENTS (UID) ON UPDATE CASCADE;

```

```

/*****/
Indices
*****/
/*****/

```

```

CREATE INDEX TURIST_LIST_DETAL_IDX1 ON TURIST_LIST_DETAL (POLIS_NUMBER);
CREATE DESCENDING INDEX TURIST_LIST_DETAL_IDX_DATE_IN ON
TURIST_LIST_DETAL (DATE_IN);

```

CREATE DESCENDING INDEX TURIST_LIST_DETAL_IDX_DATE_OUT ON
TURIST_LIST_DETAL (DATE_OUT);

Posted by [hvlad](#) on Mon, 05 Feb 2024 16:57:11 GMT

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Posted by [olegvk2000](#) on Mon, 05 Feb 2024 16:59:26 GMT

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Posted by [olegvk2000](#) on Mon, 05 Feb 2024 17:30:29 GMT

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MA5.FDB = C:\KovSoft\Basa5\MA5.FDB

```
{  
  DefaultDBCachPages = 262144  
  LockMemSize = 64M  
  TempCacheLimit = 2185M  
}
```

```
#####  
#  
# Firebird version 5.0 configuration file  
#  
#####
```

DefaultDbCachePages = 50K

TempCacheLimit = 256M

InlineSortThreshold = 16384

RemoteServicePort = 5050

RemoteAuxPort = 5051

LockMemSize = 20M

LockHashSlots = 40099

MaxParallelWorkers = 2

Default number of parallel workers for a single connection. For more details
see doc/README.parallel_features.

#

Valid values are from 1 (no parallelism) to MaxParallelWorkers (above).

Values less than 1 are silently ignored and default value of 1 is used.

Per-process.

#

Type: integer

#

#ParallelWorkers = 1

ParallelWorkers = 2

#ServerMode = Super

#ExtConnPoolSize = 0

ExtConnPoolSize = 64

Sets the time before destroying inactive external connection, seconds.

Valid values are between 1 and 86400.

#

Type: integer

#

#ExtConnPoolLifeTime = 7200

Posted by [olegvk2000](#) on Mon, 05 Feb 2024 17:36:32 GMT
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```
select count(*)  
from turist_list_detal
```

```
-----  
PLAN (TURIST_LIST_DETAL NATURAL)
```

```
Current memory = 851 640 784  
Max memory = 852 514 864  
Memory buffers = 50 000  
Reads from disk to cache = 167 760  
Writes from cache to disk = 1
```

Posted by [hvlad](#) on Mon, 05 Feb 2024 17:55:57 GMT
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Posted by [olegvk2000](#) on Mon, 05 Feb 2024 18:05:54 GMT
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PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 975 104
Max memory = 841 636 512
Memory buffers = 50 000
Reads from disk to cache = 167 760
Writes from cache to disk = 0

Posted by [olegvk2000](#) on Mon, 05 Feb 2024 18:07:39 GMT
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PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 974 560
Max memory = 841 636 512
Memory buffers = 50 000
Reads from disk to cache = 167 777
Writes from cache to disk = 0

Posted by [olegvk2000](#) on Mon, 05 Feb 2024 18:31:20 GMT
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PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 976 976
Max memory = 841 638 144
Memory buffers = 50 000
Reads from disk to cache = 185 099
Writes from cache to disk = 0

Posted by [basid](#) on Mon, 05 Feb 2024 18:55:06 GMT
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Posted by [olegvk2000](#) on Mon, 05 Feb 2024 19:03:40 GMT
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Posted by [sim_84](#) on Mon, 05 Feb 2024 19:37:45 GMT
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Posted by [olegvk2000](#) on Mon, 05 Feb 2024 19:44:08 GMT
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Posted by [sim_84](#) on Mon, 05 Feb 2024 20:57:58 GMT
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Posted by [olegvk2000](#) on Tue, 06 Feb 2024 09:02:57 GMT
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PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 976 976
Max memory = 841 638 144
Memory buffers = 50 000
Reads from disk to cache = 185 099
Writes from cache to disk = 0

PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 998 496
Max memory = 841 638 144
Memory buffers = 50 000
Reads from disk to cache = 185 116
Writes from cache to disk = 0

Fb 5.0.1.1329

PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 976 976
Max memory = 841 650 880
Memory buffers = 50 000
Reads from disk to cache = 185 099
Writes from cache to disk = 0

PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 840 976 432
Max memory = 841 650 880
Memory buffers = 50 000
Reads from disk to cache = 185 116
Writes from cache to disk = 0

Fb Firebird-4.0.4.3010

PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 851 247 408
Max memory = 852 166 480
Memory buffers = 50 000
Reads from disk to cache = 167 760
Writes from cache to disk = 0

PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 851 246 368
Max memory = 852 166 480
Memory buffers = 50 000
Reads from disk to cache = 167 775
Writes from cache to disk = 1

Posted by [sim_84](#) on Tue, 06 Feb 2024 10:24:24 GMT
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```
MA5.FDB = C:\KovSoft\Basa5\MA5.FDB
{
DefaultDBCachePages = 262144
  LockMemSize = 64M
  TempCacheLimit = 2185M
}
```

Posted by [hvlad](#) on Tue, 06 Feb 2024 10:29:22 GMT
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Posted by [hvlad](#) on Tue, 06 Feb 2024 10:33:15 GMT
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fb5.

Posted by [olegvk2000](#) on Tue, 06 Feb 2024 10:57:49 GMT
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Database "C:\KOVSOFT\BASA5\MA4.FDB"
Gstat execution time Tue Feb 6 13:51:57 2024

Database header page information:

Flags 0
Generation 1677
System Change Number 0
Page size 16384
ODS version 13.0
Oldest transaction 1660
Oldest active 1661
Oldest snapshot 1661
Next transaction 1661
Sequence number 0
Next attachment ID 34
Implementation HW=AMD/Intel/x64 little-endian OS=Windows
CC=MSVC
Shadow count 0
Page buffers 50000
Next header page 0
Database dialect 3
Creation date Feb 5, 2024 17:04:52
Attributes force write

Variable header data:

Database GUID: {900216C3-8B2C-4757-964A-46CD9AFF2243}
Sweep interval: 20000
END

Database file sequence:

File C:\KOVSOFT\BASA5\MA4.FDB is the only file

Analyzing database pages ...

TURIST_LIST_DETAL (132)

Primary pointer page: 191, Index root page: 192
Total formats: 2, used formats: 1
Average record length: 97.75, total records: 18971605
Average version length: 0.00, total versions: 0, max versions: 0
Average fragment length: 0.00, total fragments: 0, max fragments: 0
Average unpacked length: 304.00, compression ratio: 3.11
Pointer pages: 52, data page slots: 167728
Data pages: 167728, average fill: 79%
Primary pages: 167728, secondary pages: 0, swept pages: 0
Empty pages: 3, full pages: 167724
Fill distribution:

0 - 19% = 3
20 - 39% = 0
40 - 59% = 1
60 - 79% = 147305
80 - 99% = 20419

Index FK_TURIST_LIST_DETAL_1 (6)

Root page: 605497, depth: 3, leaf buckets: 6543, nodes: 18971605
Average node length: 5.59, total dup: 18962763, max dup: 146447
Average key length: 2.01, compression ratio: 4.49
Average prefix length: 8.99, average data length: 0.01
Clustering factor: 169076, ratio: 0.01
Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 1
60 - 79% = 0
80 - 99% = 6542

Index FK_TURIST_LIST_DETAL_2 (5)

Root page: 599352, depth: 3, leaf buckets: 6533, nodes: 18971605
Average node length: 5.58, total dup: 18971551, max dup: 12443789
Average key length: 2.00, compression ratio: 1.50
Average prefix length: 3.00, average data length: 0.00
Clustering factor: 459961, ratio: 0.02
Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 1
60 - 79% = 0
80 - 99% = 6532

Index FK_TURIST_LIST_DETAL_3 (4)

Root page: 592879, depth: 3, leaf buckets: 6536, nodes: 18971605
Average node length: 5.58, total dup: 18971584, max dup: 10044101
Average key length: 2.00, compression ratio: 4.49
Average prefix length: 9.00, average data length: 0.00
Clustering factor: 172029, ratio: 0.01
Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 1
60 - 79% = 0
80 - 99% = 6535

Index PK_TURIST_LIST_DETAL (0)

Root page: 539299, depth: 3, leaf buckets: 13636, nodes: 18971605
Average node length: 11.63, total dup: 0, max dup: 0

Average key length: 8.05, compression ratio: 1.12
Average prefix length: 3.95, average data length: 5.05
Clustering factor: 169038, ratio: 0.01

Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 1
60 - 79% = 0
80 - 99% = 13635

Index TURIST_LIST_DETAL_IDX1 (3)

Root page: 565842, depth: 3, leaf buckets: 7912, nodes: 18971605
Average node length: 6.74, total dup: 12643564, max dup: 120290
Average key length: 3.16, compression ratio: 4.19
Average prefix length: 12.27, average data length: 0.94
Clustering factor: 8551390, ratio: 0.45

Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 0
60 - 79% = 0
80 - 99% = 7912

Index TURIST_LIST_DETAL_IDX_DATE_IN (1)

Root page: 553704, depth: 3, leaf buckets: 6534, nodes: 18971605
Average node length: 5.58, total dup: 18969731, max dup: 120275
Average key length: 2.00, compression ratio: 2.00
Average prefix length: 3.99, average data length: 0.00
Clustering factor: 413885, ratio: 0.02

Fill distribution:

0 - 19% = 0
20 - 39% = 1
40 - 59% = 0
60 - 79% = 0
80 - 99% = 6533

Index TURIST_LIST_DETAL_IDX_DATE_OUT (2)

Root page: 560244, depth: 3, leaf buckets: 6534, nodes: 18971605
Average node length: 5.58, total dup: 18969693, max dup: 120275
Average key length: 2.00, compression ratio: 2.00
Average prefix length: 3.99, average data length: 0.00
Clustering factor: 1788664, ratio: 0.09

Fill distribution:

0 - 19% = 0
20 - 39% = 1
40 - 59% = 0
60 - 79% = 0
80 - 99% = 6533

Gstat completion time Tue Feb 6 13:52:05 2024

Posted by [olegvk2000](#) on Tue, 06 Feb 2024 10:58:56 GMT

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Database "C:\KOVSOFT\BASA5\MA5.FDB"
Gstat execution time Tue Feb 6 13:54:59 2024

Database header page information:

Flags	0
Generation	2000
System Change Number	0
Page size	16384
ODS version	13.1
Oldest transaction	2045
Oldest active	2046
Oldest snapshot	2046
Next transaction	2046
Sequence number	0
Next attachment ID	42
Implementation	HW=AMD/Intel/x64 little-endian OS=Windows

CC=MSVC

Shadow count	0
Page buffers	50000
Next header page	0
Database dialect	3
Creation date	Feb 4, 2024 18:12:28
Attributes	force write

Variable header data:

Database GUID:	{3E334F4D-660C-4C1B-AC34-9F764706CD60}
Sweep interval:	20000

END

Database file sequence:

File C:\KOVSOFT\BASA5\MA5.FDB is the only file

Analyzing database pages ...

TURIST_LIST_DETAL (132)

Primary pointer page: 196, Index root page: 197

Total formats: 2, used formats: 1
Average record length: 112.60, total records: 18971605
Average version length: 0.00, total versions: 0, max versions: 0
Average fragment length: 0.00, total fragments: 0, max fragments: 0
Average unpacked length: 304.00, compression ratio: 2.70
Pointer pages: 57, data page slots: 185064
Data pages: 185064, average fill: 81%
Primary pages: 185064, secondary pages: 0, swept pages: 0
Empty pages: 5, full pages: 185057
Fill distribution:
0 - 19% = 5
20 - 39% = 1
40 - 59% = 0
60 - 79% = 3028
80 - 99% = 182030

Index FK_TURIST_LIST_DETAL_1 (6)

Root page: 648726, depth: 3, leaf buckets: 6589, nodes: 18971605
Average node length: 5.63, total dup: 18962763, max dup: 146447
Average key length: 2.01, compression ratio: 4.49
Average prefix length: 8.99, average data length: 0.01
Clustering factor: 193824, ratio: 0.01
Fill distribution:
0 - 19% = 1
20 - 39% = 0
40 - 59% = 0
60 - 79% = 0
80 - 99% = 6588

Index FK_TURIST_LIST_DETAL_2 (5)

Root page: 642528, depth: 3, leaf buckets: 6579, nodes: 18971605
Average node length: 5.62, total dup: 18971551, max dup: 12443789
Average key length: 2.00, compression ratio: 1.50
Average prefix length: 3.00, average data length: 0.00
Clustering factor: 502109, ratio: 0.03
Fill distribution:
0 - 19% = 1
20 - 39% = 0
40 - 59% = 0
60 - 79% = 0
80 - 99% = 6578

Index FK_TURIST_LIST_DETAL_3 (4)

Root page: 636004, depth: 3, leaf buckets: 6582, nodes: 18971605
Average node length: 5.62, total dup: 18971584, max dup: 10044101
Average key length: 2.00, compression ratio: 4.49
Average prefix length: 9.00, average data length: 0.00
Clustering factor: 191150, ratio: 0.01

Fill distribution:

0 - 19% = 1
20 - 39% = 0
40 - 59% = 0
60 - 79% = 0
80 - 99% = 6581

Index PK_TURIST_LIST_DETAL (0)

Root page: 582191, depth: 3, leaf buckets: 13682, nodes: 18971605

Average node length: 11.67, total dup: 0, max dup: 0

Average key length: 8.05, compression ratio: 1.12

Average prefix length: 3.95, average data length: 5.05

Clustering factor: 193444, ratio: 0.01

Fill distribution:

0 - 19% = 0
20 - 39% = 1
40 - 59% = 0
60 - 79% = 0
80 - 99% = 13681

Index TURIST_LIST_DETAL_IDX1 (3)

Root page: 608862, depth: 3, leaf buckets: 7958, nodes: 18971605

Average node length: 6.78, total dup: 12643564, max dup: 120290

Average key length: 3.16, compression ratio: 4.19

Average prefix length: 12.27, average data length: 0.94

Clustering factor: 8573712, ratio: 0.45

Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 1
60 - 79% = 0
80 - 99% = 7957

Index TURIST_LIST_DETAL_IDX_DATE_IN (1)

Root page: 596640, depth: 3, leaf buckets: 6579, nodes: 18971605

Average node length: 5.62, total dup: 18969731, max dup: 120275

Average key length: 2.00, compression ratio: 2.00

Average prefix length: 3.99, average data length: 0.00

Clustering factor: 448070, ratio: 0.02

Fill distribution:

0 - 19% = 0
20 - 39% = 0
40 - 59% = 0
60 - 79% = 1
80 - 99% = 6578

Index TURIST_LIST_DETAL_IDX_DATE_OUT (2)

Root page: 603225, depth: 3, leaf buckets: 6579, nodes: 18971605

Average node length: 5.62, total dup: 18969693, max dup: 120275

Average key length: 2.00, compression ratio: 2.00

Average prefix length: 3.99, average data length: 0.00

Clustering factor: 1920575, ratio: 0.10

Fill distribution:

0 - 19% = 0

20 - 39% = 0

40 - 59% = 0

60 - 79% = 0

80 - 99% = 6579

Gstat completion time Tue Feb 6 13:55:07 2024

Posted by [olegvk2000](#) on Tue, 06 Feb 2024 11:02:26 GMT

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File Attachments

1) [stat_fb5.txt](#), downloaded 822 times

2) [stat_fb4.txt](#), downloaded 750 times

Posted by [sim_84](#) on Tue, 06 Feb 2024 11:24:37 GMT

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```
select count(UID)
from turist_list_detal
```

Posted by [olegvk2000](#) on Tue, 06 Feb 2024 11:35:47 GMT
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```
select count(UID) from turist_list_detal
```

```
-----  
PLAN (TURIST_LIST_DETAL NATURAL)
```

```
Current memory = 841 004 688  
Max memory = 841 622 176  
Memory buffers = 50 000  
Reads from disk to cache = 185 116  
Writes from cache to disk = 0
```

Posted by [olegvk2000](#) on Tue, 06 Feb 2024 11:36:49 GMT
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```
select count(1) from turist_list_detal
```

```
-----  
PLAN (TURIST_LIST_DETAL NATURAL)
```

```
Current memory = 840 979 360  
Max memory = 841 622 176  
Memory buffers = 50 000  
Reads from disk to cache = 185 116  
Writes from cache to disk = 0
```

Posted by [sim_84](#) on Tue, 06 Feb 2024 11:46:16 GMT
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Posted by [hvlad](#) on Tue, 06 Feb 2024 12:22:51 GMT
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Posted by [olegvk2000](#) on Tue, 06 Feb 2024 12:23:46 GMT
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PLAN (TURIST_LIST_DETAL NATURAL)

Current memory = 851 248 480
Max memory = 852 166 480
Memory buffers = 50 000
Reads from disk to cache = 167 775
Writes from cache to disk = 1

Posted by [kdv](#) on Wed, 14 Feb 2024 11:24:10 GMT

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