

---

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.

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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

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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

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

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#### File Attachments

---

1) [stat\\_fb5.txt](#), downloaded 216 times

2) [stat\\_fb4.txt](#), downloaded 203 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
```

---

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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 [olegwk2000](#) 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

---

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

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