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DB2 10.1 Advanced DBA for Linux UNIX and Windows

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QUESTION 1

The following statement was used to create a table space named USER_TMP in a non-partitioned database:

```
CREATE USER TEMPORARY TABLESPACE user_tmp MANAGED BY SYSTEM USING (mnt/fssystem4 mnt/fssystem5
```

Which operation can be performed on the USER_TMP table space with an ALTER TABLESPACE statement?

- A. New storage containers can be added to it.
- B. A different buffer pool can be associated with it.
- C. A hard limit can be placed on the size to which its storage containers can grow.
- D. Its high water mark can be lowered and its size can be reduced to the high water mark.

Correct Answer: B

QUESTION 2

A query against the system catalog revealed that data for a table named SALES in a partitioned database is distributed as follows:

PARTITION NUMBER	TOTAL # RECORDS
1	100323872
2	100321900
3	100323143
4	100322601

What can be done to improve the performance of a query that joins SALES and DATE_DIM tables (where SALES is a fact table and DATE_DIM is a dimension table) using the DATE_ID column?

- A. Reload table SALES and use only one partition with a collocated join to the DATE_DIM table using the primary key DATE_ID
- B. Reload table DATE_DIM and use only one partition with a collocated join to the SALES table using the primary key DATE_ID
- C. Create a replicated table REPL_SALES from the SALES table, refresh REPL_SALES table, create index on DATE_ID column in the REPL_SALES table, and collect statistics on REPL_SALES table.
- D. Create a replicated table REPL_DATE_DIM from the DATE_DIM table, refresh REPL_DATE_DIM table, create index on DATE_ID column in the REPL_DATE_DIM table, and collect statistics on REPL_DATE_DIM table.

Correct Answer: D

QUESTION 3

Which item is NOT eligible for adaptive compression?

- A. Indexes
- B. Base tables
- C. Temporary tables
- D. Inline LOB values

Correct Answer: C

QUESTION 4

Which statement about the initiation of parallel I/O is correct?

- A. For list prefetching, each list of data pages is divided into smaller lists according to extent boundaries and assigned to different I/O servers.
- B. For read-ahead prefetching, each list of data pages is divided into smaller lists according to extent boundaries and assigned to different I/O servers.
- C. For sequential prefetching, parallel I/O is initiated when the prefetch size is a multiple of the extent size for a table space. Each prefetch request is divided into smaller requests and assigned to different I/O servers.
- D. For sequential prefetching, parallel I/O is initiated when the extent size is a multiple of the prefetch size for a table space. Each prefetch request is divided into smaller requests and assigned to different I/O servers.

Correct Answer: C

QUESTION 5

Which statement about Range Clustered Tables (RCT) is correct?

- A. Storage space is not pre-allocated for an RCT.
- B. The ALTER TABLE statement can be used to change the physical structure of an RCT.
- C. When defining a range of key values for an RCT, a minimum value is optional.
- D. The minimum value of a key column for an RCT cannot be a negative value.

Correct Answer: C

QUESTION 6

Which monitoring tool can be used to obtain stripe set information for database managed storage table spaces?

- A. The MON_GET_CONTAINER table function.

- B. The SNAP_GET_TBSP_PART table function.
- C. The SNAPTbsp_RANGE administrative view.
- D. The TS_GET_CONTAINER administrative view.

Correct Answer: A

QUESTION 7

Which statement about compression dictionaries is FALSE?

- A. Page-level dictionaries are stored in hidden rows within the table.
- B. Table-level dictionaries are stored in hidden rows within the table.
- C. Page-level dictionaries are automatically created or recreated by the database manager as pages are filled.
- D. Table-level dictionaries are automatically created or recreated as by the database manager as pages are filled.

Correct Answer: D

QUESTION 8

What is a benefit of multi-temperature data storage?

- A. It helps reduce redundant I/O.
- B. It helps improve data compression ratios.
- C. It helps reduce storage costs for infrequently accessed data.
- D. It helps identify data access patterns to aid in storage planning.

Correct Answer: C

QUESTION 9

You need to restore a table space that was backed up earlier, but before you begin a restore operation you want to determine whether any tables in the table space were populated with a LOAD ... NONRECOVERABLE operation. What can be used to provide this information?

- A. The INSPECT utility
- B. The db2pd command
- C. The db2dart command
- D. The database recovery history file

Correct Answer: D

QUESTION 10

Given the following database design:

- A partitioned database was created that uses automatic storage.
- A table space named TS_DIM was created on database partition 0.
- A dimension table named DATE_DIM was created in table space TS_DIM.
- A table space named TS_REPL was created on database partitions 1 thru 4.
- A fact table named SALES was created in table space TS_REPL.

A Explain plan shows that a broadcast join is being used by a query that joins the DATE_DIM dimension table and the SALES fact table. Which action should be performed to improve query performance?

- A. Create a replicated summary table for the SALES table using the table space TS_REPL.
- B. Create a replicated summary table for the DATE_DIM table using the table space TS_REPL.
- C. Create an index on both the DATE_DIM and the SALES table for the column that is used in the collocated join.
- D. Create a replicated summary table for the SALES table using the table space TS_DIM and create an index on the DATE_DIM table.

Correct Answer: B

QUESTION 11

A table named SALES was created as follows:

```
CREATE TABLE sales (order_date DATE, order_d INT)
  IN ts1, ts2, ts3, ts4
  PARTITION BY RANGE (order_date)
    (STARTING '2012-01-01' ENDING '2012-12-31'
     EVERY 3 MONTHS)
```

Assuming all table spaces required already exist, which statement(s) must be executed to add a new partition that already contains data for the first quarter of 2013 to the SALES table and leave the table accessible?

- A. ALTER TABLE sales ADD PARTITION part_2013q1 STARTING ('01/01/2013') ENDING ('03/31/2013') IN ts5;
- B. ALTER TABLE sales ATTACH PARTITION part_2013q1 STARTING ('01/01/2013') ENDING ('03/31/2013') FROM TABLE q12013_sales;
- C. ALTER TABLE sales ADD PARTITION part_2013q1 STARTING ('01/01/2013') ENDING ('03/31/2013') IN ts5; SET INTEGRITY FOR sales IMMEDIATE CHECKED;
- D. ALTER TABLE sales ATTACH PARTITION part_2013q1 STARTING ('01/01/2013') ENDING ('03/31/2013') FROM TABLE q12013_sales; SET INTEGRITY FOR sales IMMEDIATE CHECKED;

Correct Answer: D

QUESTION 12

An auxiliary HADR standby database must use which HADR sync mode?

- A. SYNC
- B. ASYNC
- C. NEARSYNC
- D. SUPERASYNC

Correct Answer: D

QUESTION 13

When will the existing data for a new partition be visible to applications querying a range-partitioned table?

- A. After the ALTER TABLE ... ADD statement is executed.
- B. After the ALTER TABLE ... ATTACH statement is executed.
- C. After the ALTER TABLE ... ADD and SET INTEGRITY statements are executed.
- D. After the ALTER TABLE ... ATTACH and SET INTEGRITY statements are executed.

Correct Answer: D

QUESTION 14

Which would not significantly benefit from having the RUNSTATS command run on it?

- A. Tables that have had little change.
- B. Tables where a new index has been created.
- C. Tables that have been reorganized (using REORG).
- D. Tables that have been populated with a LOAD operation.

Correct Answer: A

QUESTION 15

Which Range-Clustered Tables (RCT) statement is correct?

- A. Reverse scans on RCTs are not supported.
- B. Clustering indexes are compatible with RCTs.
- C. The Design Advisor can recommend the use of RCTs.
- D. The IMPORT utility can be used with the REPLACE option to populate RCTs.

Correct Answer: A

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