

C2090-600.33q

Number: C2090-600

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C2090-600

IBM DB2 11.1 DBA for LUW

Exam A

QUESTION 1

Which statement about NOT ENFORCED unique constraints is TRUE?

- A. NOT ENFORCED unique constraints can not be defined on primary key columns
- B. The query optimizer will consider a NOT ENFORCED unique constraint when selecting an optimal data access plan
- C. When attempting to insert data that does not conform to a NOT ENFORCED unique constraint, a warning will be returned
- D. Storage requirements for a NOT ENFORCED unique constraint are no different than the storage requirements for a similar unique index

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

What is an advantage of using range partitioned tables?



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- A. Ability to run utilities against the partitions in parallel
- B. Increased query performance through data partition elimination
- C. Block indexes are much smaller than RID indexes, providing better performance
- D. Table data is automatically and continuously clustered, requiring minimal reorganization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.ibm.com/developerworks/data/library/techarticle/dm-0605ahuja2/#query>

QUESTION 3

A table named MYTABLE contains an XML column and an XML storage object dictionary already exists. What is the effect of enabling compression and then running the command REORG TABLE mytable KEEPDICTIONARY?

- A. All data, both new and existing, will be compressed.
- B. Only new or updated data for XML columns will be compressed.
- C. New and existing XML columns will be compressed but other columns remain unchanged.
- D. Existing data will remain uncompressed because the RESETDICTIONARY option of the REORG command was not used.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

The DBA has observed that queries executed against SALES table have poor performance. SALES is a compressed table and recently there have been a lot of rows inserted and modified in that table. The DBA has detected that lower performance may be the result of sub-optimal compression dictionary for that table.

Which of the following commands should be used to resolve the problem without preventing users from changing data in the SALES table

- A. REORG TABLE sales INPLACE RESETDICTIONARY
- B. REORG TABLE sales INPLACE REBUILDDICTIONARY
- C. REORG TABLE sales ALLOW WRITE ACCESS RESETDICTIONARY
- D. REORG TABLE sales ALLOW WRITE ACCESS REBUILDDICTIONARY

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

If the following SQL statements are executed:

```
CREATE DATABASE testdb AUTOMATIC STORAGE NO;  
CONNECT TO testdb;  
CREATE STOGROUP sg1 ON '/data1';  
CREATE STOGROUP ibmstogroup ON '/data2';  
CREATE STOGROUP sg2 ON '/data3';
```

Which storage group is the default storage group for the TESTDB database?

- A. SG1
- B. SG2
- C. IBMSTOGROUP
- D. IBMDEFAULTTSG

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.tutorialspoint.com/db2/db2_storagegroups.htm



QUESTION 6

Automatic space reclamation for column-organized tables can be accomplished in which of the following scenarios?

- A. When the registry variable DB2_AUTORECLAIMSPACE=YES
- B. After termination all the back-end processes using TERMINATE command
- C. After setting the database configuration parameter AUTO_DEL_REC_OBJ to ON
- D. When the registry variable DB2_WORKLOAD=ANALYTICS prior to database creation

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSEPGG_11.1.0/com.ibm.db2.luw.admin.perf.doc/doc/c0061069.html

QUESTION 7

Which security mechanism is responsible for verifying that users are indeed who they claim to be?

- A. Authentication
- B. Roles and privileges
- C. Mandatory access control
- D. Discretionary access control

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_9.7.0/com.ibm.db2.luw.admin.sec.doc/doc/c0005435.html

QUESTION 8

Which of the following commands will list all of the disk configurations of the file system DATAFS in a DB2 pureScale cluster?



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- A. db2cluster -cfs -list -filesystem datafs
- B. db2cluster -cfs -display -filesystem datafs
- C. db2cluster -cfs -listconfig -filesystem datafs
- D. db2cluster -cfs -displayconfig -filesystem datafs

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which command can be used to view the configured global registry settings for all installed DB2 copies found on a Linux server?

- A. db2val
- B. db2set
- C. db2look
- D. db2greg

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_9.5.0/com.ibm.db2.luw.admin.cmd.doc/doc/r0002025.html

QUESTION 10

Which options are valid for an online reorganization operation?

- A. FULL and RECLAIM EXTENTS
- B. CLASSIC and RECLAIM EXTENTS
- C. FULL and CLEANUP OVERFLOWS
- D. CLEAN OVERFLOWS and RECLAIM EXTENTS



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

A DBA has observed that queries executed against SALES table have poor performance. DB2 tools have indicated that the level of data fragmentation in the SALES table is very high. Similar results were detected for indexes defined on the SALES table.

Which of the following commands should be used by the DBA to improve the performance of the queries run against the SALES table?

- A. REORG TABLE sales AND INDEXES ALL;
RUNSTATS ON TABLE sales AND INDEXES ALL;
- B. REORG TABLE sales INPLACE;

- REORG INDEXES ALL FOR TABLE sales;
RUNSTATS ON TABLE sales AND INDEXES ALL;
C. RUNSTATS ON TABLE sales AND INDEXES ALL;REORGCHK ON TABLE sales;
D. RUNSTATS ON TABLE sales INPLACE AND INDEXES ALL;

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Which of the following are valid Explain operators? (Choose two.)

- A. CTQ
- B. XSCAN
- C. IXSCAN
- D. SELECT
- E. COLSCAN

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_9.7.0/com.ibm.db2.luw.admin.explain.doc/doc/r0052023.html

QUESTION 13

Which is the correct way to back up only metadata about database backups, table space backups, and table load operations for database MYDB?

- A. CONNECT TO mydb
PRUNE HISTORY TO /outdir
- B. db2trc on -db mydb -m "backup,load"run the desired operations db2tc dump db2trc.dmp db2tc format db2tc.dmp db2tc.fmt db2tc off
- C. BACKUP DATABASE mydb NO TABLESPACE TO /outdir
- D. db2set DB2_BCKP_PAGE_VERIFICATION=TRUE must be issued first (no instance restart is needed). Run the desired operations.
Afterwards, issue db2trc dump <outfile>

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which of the following SQL statements will list table spaces whose utilization is greater than 95% and may potentially fill, returning an error?

- A. `SELECT tbsp_name, tbsp_utilization_percent
FROM TABLE(sysproc.mon_tbsp_utilization()) AS t
WHERE tbsp_utilization_percent > 95
AND tbsp_auto_resize_enabled = 1;`
- B. `SELECT tbsp_name, tbsp_utilization_percent
FROM syscat.mon_tbsp_utilization
WHERE tbsp_utilization_percent > 95
AND tbsp_auto_resize_enabled = 0;`
- C. `SELECT tbsp_name, tbsp_utilization_percent
FROM syscat.mon_tbsp_utilization
WHERE tbsp_utilization_percent > 95
AND tbsp_auto_resize_enabled = 1;`
- D. `SELECT tbsp_name, tbsp_utilization_percent
FROM sysibmadm.mon_tbsp_utilization
WHERE tbsp_utilization_percent > 95
AND tbsp_auto_resize_enabled = 0;`



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

When operating in NPS compatibility mode, which of the following are limitations for using a routine written in NZPLSQL? (Choose two.)

- A. The routine cannot contain comments.
- B. The routine must return either an integer or a null.
- C. The routine must be cross-compatible with Oracle PL/SQL syntax rules.

- D. The routine cannot contain argument lists or variable arguments (varargs).
- E. The routine must be generated with IBM Database Conversion Workbench (DCW).

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.apdv.porting.doc/doc/r_sql_compat_nzplsql.html/

QUESTION 16

Which of the following enables the user to connect to the HADR standby database and execute select statements?



- A. DB2_HADR_ROS
- B. HADR_SPOOL_LIMIT
- C. DB2_HADR_SOSNDBUF
- D. DB2_HADR_PEER_WAIT_LIMIT

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.ibm.com/developerworks/data/library/techarticle/dm-1205hadrstandby/>

QUESTION 17

The DBA is concerned about a new application potentially corrupting a set of tables in table space TS1 in database DB1. TAB1 is a table in TS1. The DBA performs the following commands before running the application. The first QUIESCE completes at time "pit".

BACKUP DATABASE DB1 TABLESPACE (TS1) ONLINE

QUIESCE TABLESPACES FOR TABLE tab1 EXCLUSIVE
QUIESCE TABLESPACES FOR TABLE tab1 RESET

Which of the following is TRUE?

- A. The QUIESCE EXCLUSIVE is recorded in the History File once the QUIESCE RESET completes.
- B. Once the first QUIESCE completes, there are no running transactions involving tab1, but there might be running transactions against other tables in TS1.
- C. After application corruption, the DBA restores a backup of TS1 and issues ROLLFORWARD DATABASE TO pit AND COMPLETE TABLESPACE (ts1) ONLINE. There might be some uncommitted data in TS1.
- D. After application corruption, the DBA restores a backup of TS1 and issues ROLLFORWARD DATABASE TO pit AND COMPLETE TABLESPACE (ts1) ONLINE. This ensures none of the application changes were applied.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

When the DB2_WORKLOAD registry variable is assigned the value ANALYTICS and then a new database is created, what happens? (Choose two.)

- A. The PAGESIZE database configuration parameter is set to 32K.
- B. The AUTO_REORG database configuration parameter is set to NO.
- C. The DFT_EXTENT_SZ database configuration parameter is set to 8.
- D. The DFT_TABLE_ORG database configuration parameter is set to COLUMN.
- E. The INTRA_PARALLEL database manager configuration parameter is set to NO.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

When choosing the dimensions for an MDC table, poor space utilization can occur due to low cell density. What can cause an MDC table to use much more space?

- A. The page size is too small.
- B. The extent size is too small.
- C. Low cardinality of the dimension(s) chosen.
- D. High cardinality of the dimension(s) chosen.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which of the following actions do you need to acquire the current encryption settings for a database protected by native encryption?

- A. Select from the ADMIN_GET_ENCRYPTION_INFO table function
- B. Run the db2ckbkp command and verify the compression settings
- C. Check the encrypted database parameter in database configuration
- D. Check ENCROPTS database configuration parameter for encryption options

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSEPGG_10.5.0/com.ibm.db2.luw.admin.config.doc/doc/r0061750.html

QUESTION 21

When querying the MON_GET_TABLESPACE table function, the values for many of the performance metrics like POOL_DATA_P_READS and POOL_DATA_L_READS are showing 0, even though there is activity occurring in the database. Which command must be executed to enable the table function to return actual data?

- A. UPDATE DB CFG USING MON_OBJ_METRICS BASE
- B. UPDATE DB CFG USING MON_ACT_METRICS BASE
- C. UPDATE DBM CFG USING DFT_MON_BUFPOOL ON
- D. UPDATE MONITOR SWITCHES USING BUFFERPOOL ON

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Which statement about Data Server Manager (DSM) is TRUE?

- A. DSM can be used for reviewing audit trails
- B. DSM cannot be used for database administration
- C. DSM can be used for configuration management of DB2 Data Server drivers
- D. DSM can be used to efficiently monitor, analyze, identify, and solve a performance issue

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.ibm.com/developerworks/data/library/techarticle/dm-1503db2-data-server/index.html> (conclusion)

QUESTION 23

What is the result of the following scenario?

```
CREATE TABLE ten_pct (  
    key INT NOT NULL,  
    amt DECIMAL(10,0) NOT NULL);  
  
CREATE OR REPLACE TRIGGER ten_pct_upd BEFORE UPDATE ON ten_pct  
    REFERENCING  
        OLD AS old_row  
        NEW AS in_row  
    FOR EACH ROW  
    WHEN (in_row.amt IS NULL)  
        SET in_row.amt = old_row.amt * 1.10;  
  
INSERT INTO ten_pct VALUES (2, 100.0);  
  
UPDATE ten_pct SET amt = NULL  
    WHERE key = 2;
```

- A. The row is updated to (2, NULL)
- B. The row is updated to (2, 110.00)
- C. SQL0407N Assignment of a NULL value to a NOT NULL column is not allowed
- D. The CREATE TRIGGER statement will fail because amt is defined as NOT NULL

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

On Linux and Unix systems, which of the following will set the DB2_FMP_COMM_HEAPSZ registry variable to 1 GB (or 256000 pages), only for the instance db2inst1?

- A. As the db2 instance owner (db2inst1) execute the command: export DB2_FMP_COMM_HEAPSZ=256000
- B. Add to the following line to the userprofile (db2inst1): DB2_FMP_COMM_HEAPSZ=256000
- C. As the db2 instance owner (db2inst1) execute the command: db2set -i DB2_FMP_COMM_HEAPSZ=256000
- D. As the db2 instance owner (db2inst1) execute the command:
db2set -i db2inst1 DB2_FMP_COMM_HEAPSZ=256000

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Which of the following statements about audit policies is TRUE?

- A. Audit policy changes are applied instantly and affect all inflight transactions.
- B. Multiple audit policies can be associated with the same table at the same time.
- C. The audit policy applied to a table is automatically applied to any view based on that table.
- D. If a user is switched within a trusted connection, the applicable audit policies are re-evaluated for the new user without regard to audit policies for the original user.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSPT3X_4.2.0/com.ibm.swg.im.infosphere.biginsights.commsql.doc/doc/r0050609.html (note, 6th bullet)

QUESTION 26

How would you enable self-tuning of memory areas that are controlled by memory configuration parameters?

- A. Set the DB2_WORKLOAD aggregate registry variable to ANALYTICS for self-tuning of the sort parameter on workloads that access column-organized tables.
- B. Set the SELF_TUNING_MEM database configuration parameter to ON using the UPDATE DATABASE CONFIGURATION command or the db2CfgSet API.
- C. Set the sortheap or the sheapthres_shr configuration parameters to AUTOMATIC using the UPDATE DATABASE CONFIGURATION command or the db2CfgSet API with sheapthres set to at least 4K.
- D. Use AUTOMATIC keyword for the buffer pool size on the CREATE BUFFERPOOL statement or the ALTER BUFFERPOOL statement after making sure that at least one entry is present in SYSCAT.BUFFERPOOLDBPARTITIONS.

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSEPGG_9.7.0/com.ibm.db2.luw.admin.perf.doc/doc/t0021629.html (enabling self-tuning memory, procedure)

QUESTION 27

What is the schema name of the DB2 built-in global variable TRUSTED_CONTEXT?

- A. SYSIBM
- B. SYSFUN
- C. SYSCAT
- D. SYSIBMADM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSPT3X_4.2.0/com.ibm.swg.im.infosphere.biginsights.commsql.doc/doc/r0059071.html

QUESTION 28

Which ALTER TABLE statements will put a table named TAB1 in “reorg-pending” state? (Choose two.)

- A. ALTER TABLE tab1 APPEND ON
- B. ALTER TABLE tab1 DROP COLUMN col1
- C. ALTER TABLE tab1 ALTER COLUMN col1 SET NOT NULL
- D. ALTER TABLE tab1 DETACH PARTITION part1 INTO tab_part1
- E. ALTER TABLE tab1 ADD CONSTRAINT pk_tab1 PRIMARY KEY (col1)

Correct Answer: BC

Section: (none)

Explanation**Explanation/Reference:****QUESTION 29**

If the following SQL statements are executed:

```
CREATE TABLE department  
  (deptno CHAR(3) NOT NULL,  
   location CHAR(16))  
  ORGANIZE BY ROW;
```

```
ALTER TABLE department  
  ADD CONSTRAINT pk_dept PRIMARY KEY (deptno) NOT ENFORCED;
```

```
INSERT INTO department VALUES ( 'A25', 'New York');  
INSERT INTO department VALUES ( 'B26', 'Chicago');  
INSERT INTO department VALUES ( 'A25', 'Dallas');  
INSERT INTO department VALUES ( 'A56', 'San Jose');
```

How many rows will be added to the DEPARTMENT table?

- A. 1
- B. 2



- C. 3
- D. 4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

What is the main benefit of performing an ADMIN_MOVE_TABLE operation in multiple steps?

- A. It does not acquire locks on the table
- B. It does not require additional temporary disk space
- C. It enables the user to control when the table will be offline
- D. It allows the ADMIN_MOVE_TABLE procedure to be used in HADR environments

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Which statement regarding setting up a local keystore for DB2 native encryption is TRUE?

- A. A local keystore is not needed if a Hardware Security Module (HSM) is used to manage master keys.
- B. If a local keystore is used to store data encryption keys, a stash file must be used to store master keys temporarily.
- C. A master key must be generated and placed in an existing local keystore before a new encrypted database will be created.
- D. After a local keystore is created, you will be prompted for a password whenever the database manager accesses the keystore.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Which operation best describes the purpose of the SET INTEGRITY PRUNE operation?

- A. To prune the contents of a staging table.
- B. To prune the contents of a synopsis table.
- C. To prune the contents of a materialized query table (MQT).
- D. To prune the contents of a declared global temporary table.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

Which data types are only valid when DB2_COMPATIBILITY_VECTOR=ORA? (Choose two.)

- A. XML
- B. REAL
- C. NUMBER
- D. VARCHAR2
- E. VARBINARY



Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSEPGG_9.7.0/com.ibm.db2.luw.apdv.porting.doc/doc/r0052867.html



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