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Vendor: Microsoft

Exam Code: 000-614

Exam Name: DB2 10.1 Advanced DBA for Linux UNIX
and Windows

Version : Demo

Question: 1

Which constraints are used to tell the DB2 Optimizer to consider business rules that are not enforced by the database manager?

- A. Check constraints
- B. Default constraints
- C. Informational constraints
- D. Referential integrity constraints

Answer: C

Question: 2

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.

Answer: B

Question: 3

Which procedure is used to Explain an SQL statement using information obtained from the package cache or the package cache event monitor?

- A. EXPLAIN_FROM_DATA
- B. EXPLAIN_FROM_ACTIVITY
- C. EXPLAIN_FROM_SECTION
- D. EXPLAIN_FROM_CATALOG

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.

Answer: C

Question: 5

The following message is frequently seen in the DB2 Diagnostics Log file (db2diag.log):

MESSAGE:

ADM5502W

The escalation of "28581" locks on table "TEST.TABLE1" to lock intent "X" was successful.
Which two database configuration parameter settings should be checked? (Choose two.)

- A. LOCKLIST
- B. MAXAPPLS
- C. MAXLOCKS
- D. MAXAGENTS
- E. LOCKTIMEOUT

Answer: A,C

Question: 6

Consider the following statement:

```
SELECT lastname, job, workdept FROM employee e, department d
      WHERE e.workdept = d.deptno
      AND d.deptname = 'SOFTWARE SUPPORT'
      ORDER BY lastname
```

Which indexes should be created for optimal query performance?

- A. CREATE INDEX emp_idx ON employee (workdept);
CREATE INDEX dept_idx ON department (deptno);

B. CREATE INDEX emp_idx ON employee (workdept) CLUSTER;
CREATE INDEX dept_idx ON department (deptname, deptno);
C. CREATE INDEX emp_idx ON employee (workdept, lastname, job);
CREATE INDEX dept_idx ON department (deptname, deptno);
D. CREATE INDEX emp_idx ON employee (lastname, job, workdept) CLUSTER;
CREATE INDEX dept_idx ON department (deptname);

Answer: C

Question: 7

What will occur when a database administrator adds a new automatic storage path to an existing storage group?

- A. New table spaces will start consuming storage on the new path.
- B. Existing table spaces will not consume storage on the new path.
- C. The storage group will be placed in "Rebalance Pending" mode.
- D. DB2 will verify that space is available on the storage path specified.

Answer: B

Question: 8

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.

Answer: A

Question: 9

Which statement about value compression is correct?

- A. To use value compression, you must have a license for the DB2 Storage Optimization Feature.
- B. Value compression uses a page-level dictionary-based compression algorithm to compress data based on repetition of values found in a single column.
- C. Value compression involves removing duplicate entries for a value, only storing one copy, and keeping track of the location of any references to the stored copy.
- D. When value compression is used, the byte count of compressed NULLs, zeros, and blanks might be larger than that of the uncompressed version of the same values.

Answer: C

Question: 10

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.

Answer: D

Question: 11

What advantage do block-based buffer pools offer compared to regular buffer pools?

- A. They improve the performance of sequential prefetching by reading contiguous pages from disk and writing them into contiguous pages in a buffer pool.
- B. They improve the performance of random I/O by reading non-contiguous pages from disk and writing them into near-contiguous free space in a buffer pool.
- C. They improve the performance of vectored reads by retrieving non-contiguous pages from disk, combining them into extent-sized blocks, and writing the blocks into contiguous pages in a buffer pool.
- D. They improve the performance of scattered writes by retrieving non-contiguous pages from a buffer pool, combining them into extent-sized blocks, and writing the blocks into contiguous pages on disk.

Answer: A

Question: 12

The following query is executed frequently against the SALES table:

```
SELECT sales_person, region FROM sales WHERE region = 'Quebec'
```

Which statement will create an index for optimal query performance?

- A. CREATE INDEX sales_idx ON sales (region)
- B. CREATE INDEX sales_idx ON sales (sales_person)
- C. CREATE INDEX sales_idx ON sales (region, sales_person)
- D. CREATE INDEX sales_idx ON sales (region) INCLUDE (sales_person)

Answer: C

Question: 13

Which monitoring tool can be used to find out how many data pages have been read from the table space containers for regular, large, and temporary table spaces?

- A. The MON_DB_SUMMARY administrative view.
- B. The MON_BP_UTILIZATION administrative view.
- C. The MON_GET_ACTIVITY_DETAILS table function.
- D. The MON_GET_EXTENT_MOVEMENT_STATUS table function.

Answer: B

Question: 14

What is the FAILARCHPATH database configuration parameter used for?

- A. To specify a path that DB2 will use to look for archive log files that are needed for a rollforward recovery operation.
- B. To specify a path to which DB2 will attempt to store a copy of archive log files to protect against accidental deletion.
- C. To specify a path to which DB2 will attempt to store a copy of both active and archive log files to protect against disk failure and power outages.
- D. To specify a path to which DB2 will attempt to store archive log files if they cannot be written to the primary or secondary archive destination because of a media problem.

Answer: D

Question: 15

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

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

Answer: D

Question: 16

What is the recommended method for removing old backup images and log files for a DB2 10.1 database?

- A. Manually delete old backups and logs.
- B. Utilize the PRUNE LOGFILE PRIOR TO command to remove old backups and logs.
- C. Utilize the PRUNE HISTORY AND DELETE command to remove old backups and logs.
- D. Set the DB2PRUNE_ACTION_LOG configuration parameter to a desired date before generating a new backup.

Answer: C

Question: 17

Which diagnostic tool can be used to collect metrics on individual SQL statement executions?

- A. db2dart
- B. A snapshot monitor
- C. A statement event monitor
- D. The MON_GET_UNIT_OF_WORK_DETAILS table function

Answer: C

Question: 18

Which statement about DB2 Merge Backup is FALSE?

- A. It can be used to merge offline backups to build full offline table space backups.
- B. It can be used to merge SNAPSHOT and TSM tape backup images to create a full database backup image.
- C. It can be used merge multiple offline database backups to build a cumulative single offline database backup.
- D. It can be used to merge backups on a machine that is different from the machine where the backup has been created in stand-alone mode.

Answer: B

Question: 19

What two types of information can be obtained with the MON_GET_TABLESPACE monitor table function? (Choose two.)

- A. Table space available space
- B. Table space read and write activity
- C. Table space container assignments
- D. Table level activity within a table space
- E. Table space backup and recovery information

Answer: A,B

Question: 20

Which Workload Manager (WLM) objects can the COLLECT ACTIVITY DATA clause be used with?

- A. Data class, work class, and a limit
- B. Data class, action class, and a threshold
- C. Service subclass, action class, and a limit
- D. Service subclass, work class, and a threshold

Answer: D

Question: 21

Where is the HADR_TARGET_LIST configuration parameter set?

- A. On the primary database only.
- B. On all participating databases.
- C. On the tertiary standby databases.
- D. On the auxiliary standby databases only.

Answer: B

Question: 22

What is the default user workload class that is created for each database table?

- A. DEFAULT_USER
- B. SYSUSERDEFAULTWLM
- C. SYSDEFAULTUSERWORKLOAD
- D. SYS_DEFAULT_USER_WORKLOAD

Answer: C

Question: 23

Which statement about dropped table recovery is correct?

- A. Multiple dropped tables can be recovered with a single table space-level restore operation.
- B. By default, the DROPPED TABLE RECOVERY option is off when a new table space is created.
- C. The dropped table recovery feature lets you recover only dropped table data with a database-level restore operation.
- D. For a dropped table to be recoverable, the table space in which the table resides must have the DROPPED TABLE RECOVERY option turned on.

Answer: D

Question: 24

In which situation would you NOT use a redirected restore?

- A. To redefine the paths of a defined storage group.
- B. To move table space containers onto different physical devices.
- C. To restore a backup image from one operating system to another.
- D. To restore a backup image to a target machine that is different from the source machine.

Answer: C

Question: 25

A table space creation operation was unsuccessful because DB2 failed to allocate a container in a path. Which diagnostic tool can be used to help resolve the problem?

- A. db2dart
- B. db2diag
- C. db2caem
- D. db2fmcu

Answer: B

Question: 26

What must you do before an online table space backup operation can be performed?

- A. Create a full database backup image.
- B. Create one or more tables in the table space.
- C. Create an incremental backup image of the table space.
- D. Set the DB2_ENABLE_ONLINEBKUP registry variable to ON.

Answer: A

Question: 27

Which category must be enabled before db2audit will record the creation of new buffer pools?

- A. OBJMAINT
- B. SECMAINT
- C. CHECKING
- D. OBJCREATE

Answer: A

Question: 28

What event category is used with the db2audit command to capture SQL data, such as host variable and parameter marker values, that are associated with an SQL statement?

- A. AUDIT
- B. VALIDATE
- C. EXECUTE
- D. CONTEXT

Answer: C

Question: 29

A database administrator created all of the necessary federated objects for an SQL Server data source in a federated system. Which steps must be performed if the data types of several columns in the SQL Server data source are changed?

- A. Drop the current data type mapping.
Create the new data type mapping.
- B. Drop the nickname to the table.
Create the new data type mapping.
Recreate the nickname to the table.
- C. Drop the current data type mapping.
Create the new data type mapping.
Drop the nickname to the table.
Recreate the nickname to the table.
- D. Drop the current user mapping.
Drop the current data type mapping.
Create the new user mapping.
Create the new data type mapping.
Recreate the nickname to the table.

Answer: B

Question: 30

To configure instance-level auditing with db2audit, which authority is required?

- A. SYSADM
- B. SYSCTRL
- C. SECADM
- D. SYSMANT

Answer: A

Question: 31

What are two supported methods for providing a low latency, high speed interconnect between DB2 members and the cluster caching facility (CF) in a DB2 pureScale environment? (Choose two.)

- A. InfiniBand with RDMA (IB)
- B. SCSI RDMA Protocol (SRP)
- C. iSCSI Extensions for RDMA (iSER)
- D. RDMA over Converged Ethernet (RoCE)
- E. Internet Wide Area RDMA Protocol (iWARP)

Answer: A,D

Question: 32

On which two operating systems can DB2 pureScale run? (Choose two.)

- A. AIX
- B. Linux
- C. HP-UX
- D. Solaris
- E. Windows

Answer: A,B

Question: 33

Which statement about data type mappings is true in a federated system?

- A. The Oracle DOUBLE data type maps to the DB2 type FLOAT by default.
- B. Data types can be mapped in both directions between a remote and local data type.
- C. Cast functions can be pushed down to remote servers even if a counterpart function does not exist there.

D. For relational data sources, the degree to which you can override existing data type mappings or create mappings is limited.

Answer: B

Question: 34

Which statement about IBM WebSphere Information Integrator Q Replication is correct?

- A. It reads the DB2 recovery log and stores committed transactional data in staging tables.
- B. It reads the DB2 recovery log and converts committed transactional data to SQL statements.
- C. It provides the lowest latency of data in the target databases and lowest throughput of changed data to the target databases.
- D. It provides the lowest latency of data in the target databases and highest throughput of changed data to the target databases.

Answer: D

Question: 35

Which table configuration CANNOT utilize multi-temperature storage?

- A. A range-partitioned table utilizing multiple table spaces that map to DMS containers.
- B. Multiple tables containing the same data at different ages placed into the same table space.
- C. Multiple tables containing the same data at different ages placed into separate table spaces.
- D. A range-partitioned table utilizing multiple table spaces that map to individual storage groups.

Answer: B

Question: 36

What is the preferred method for reclaiming unused storage in a DMS table space?

- A. Perform an ALTER TABLESPACE...REDUCE operation.
- B. Perform a REORG on each table within the table space, then perform an ALTER TABLESPACE...REDUCE operation.
- C. Perform an ALTER TABLESPACE...LOWER HIGH WATER MARK operation, and then an ALTER TABLESPACE...REDUCE operation.
- D. Perform a REORG on each table within the table space, then perform an ALTER TABLESPACE...LOWER HIGH WATER MARK operation.

Answer: C

Question: 37

If the following statements are executed:

```
CREATE STOGROUP sg_hot ON '/path1', '/path2', '/path3';
```

```
CREATE STOGROUP sg_med ON '/path4', '/path5', '/path6';
```

```
CREATE TABLESPACE tbsp1 USING STOGROUP sg_hot;
```

What is the recommended way to move table space TBSP1 from storage group SG_HOT to storage group SG_MED?

- A. Issue an ALTER TABLESPACE statement with the 'USING sg_med' option.
- B. Issue an ALTER STOGROUP statement with the 'MOVE tbsp1 TO sg_med' option.
- C. Perform a table space RESTORE operation with the 'USING STOGROUP sg_hot' option.
- D. Use the ADMIN_MOVE_TABLESPACE procedure to move table space TBSP1 to SG_HOT.

Answer: A

Question: 38

A DB2 9 database named MYDB that does not use automatic storage was migrated to DB2 10.1. When will a default storage group be defined for this database?

- A. The first time the database is accessed after the migration.
- B. The first time the CREATE STOGROUP statement is executed.
- C. When the ALTER DATABASE mydb CONVERT statement is used to convert the database to an automatic storage database.
- D. When the ALTER TABLESPACE statement is used to convert the table space that holds the system catalog for the database to automatic storage.

Answer: B

Question: 39

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.

Answer: B

Question: 40

A DBA wants to create a set of tables in a storage group named SG_1, but no table spaces have been assigned to this group. What kind of table spaces must the DBA assign to the storage group before the desired tables can be created?

- A. Automatic storage (AS) table spaces
- B. System managed space (SMS) table spaces
- C. Database managed space (DMS) table spaces that use FILE containers
- D. Database managed space (DMS) table spaces that use RAW containers

Answer: A

Question: 41

What contributes to the efficient use of block-based buffer pools?

- A. The application does not use sequential prefetching.
- B. The application performs a lot of random I/O operations.
- C. The table space extent size is equal to the block size specified for the buffer pool.
- D. The table space prefetch size is equal to the block size specified for the buffer pool.

Answer: C

Question: 42

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.

Answer: C

Question: 43

A storage group named HOT_SG was created as follows:

```
CREATE STOGROUP hot_sg
  ON '/mnt/ssd_path1', '/mnt/ssd_path2'
  OVERHEAD 0.75
  DEVICE READ RATE 500
  DATA TAG 1
  SET AS DEFAULT
```

What does the DATA TAG 1 clause do?

- A. It indicates that the multiple storage paths referenced in the HOT_SG storage group definition exist in one physical location.
- B. It tells the DB2 Optimizer that database objects stored in the HOT_SG storage group are to be given preference over other objects when data access plans are generated.
- C. It indicates that the value 1 is to be assigned to data stored in the HOT_SG storage group, which Workload Manager (WLM) can then use to determine the processing priority to assign to database activities that interact with this data.
- D. It assigns a unique identifier to the instance of the HOT_SG storage group being defined; this identifier can then be used when moving table spaces to and from the storage group, when dropping the storage group, or when commenting on the storage group.

Answer: C

Question: 44

Which statement about partitioned indexes is FALSE?

- A. Both system- and user-generated indexes can be partitioned.
- B. Each index partition contains references only to data in its corresponding data partition.
- C. A partitioned index is made up of a set of index partitions, each of which contains the index entries for a single data partition
- D. When attaching new partitions, the SET INTEGRITY statement must be run before data in the newly attached partition will be reflected in the corresponding partition index.

Answer: D

Question: 45

What must be done to convert an existing table into an Insert-Time-Clustered (ITC) table?

- A. Call the ADMIN_MOVE_TABLE procedure.
- B. Call the ADMIN_REVALIDATE_DB_OBJECTS procedure.
- C. Issue a REORG TABLE statement with the ORGANIZE BY INSERT TIME option.
- D. Issue an ALTER TABLE statement with the ORGANIZE BY INSERT TIME option.

Answer: A

Question: 46

What statement regarding Asynchronous index cleanup (AIC) is correct?

- A. AIC removes all invalid index entries that refer to the attached partitions.
- B. AIC is initiated if a range-partitioned table contains one or more nonpartitioned indexes.
- C. AIC activates a newly attached partition after the index entries have been synchronized.
- D. AIC will not be initiated if a range-partitioned table has dependent materialized query tables (MQTs).

Answer: B

Question: 47

A DBA wants to create a table named SALES that has the following characteristics:

Data for the first half of the year will reside in table space TBSP1; the index for this data will reside in table space TBSP21.

Data for the second half of the year will reside in table space TBSP2; the index for this data will reside in table space TBSP22.

Which clause must be used with the CREATE TABLE statement to define this table?

- A. DISTRIBUTE BY HASH
- B. PARTITION BY RANGE
- C. ORGANIZE BY DIMENSIONS
- D. ORGANIZE BY KEY SEQUENCE

Answer: B

Question: 48

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.

Answer: A

Question: 49

A table named SALES was created as follows:

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