IBM

Exam A2090-544

DB2 9.7 Advanced DBA for LUW

Version: 6.1

[Total Questions: 103]

Topic 1, Volume A

Question No : 1 - (Topic 1)

An employee is not able to connect to the PRODDB database using the correct user IDand password. The TCP/IP protocol is running normally; other remote clients are also having problems connecting to this database. Which two could be the cause of the problem? (Choose two.)

A. The DB2COMM environment variable at the server is not set to TCPIP.
B. The DB2 Administration Server is not started.
C. The port number is not assigned in the server's services file.
D. The client's authentication type is not compatible with the server.
E. The server node and/or database are not cataloged correctly onthe client.

Answer: A,E

Question No : 2 - (Topic 1)

While attempting to establish connectivity between a Windows client and a UNIX server, the following commands were issued from the Windows client:

CATALOG TCPIP NODE node001 REMOTE hostnm01 SERVER 50000;

CATALOGDATABASE samp001 AS samp001 AT NODE node001;

TERMINATE;

When trying to connect to the SAMP001 database the following error was received: SQL30061N The database alias or database name name was not found at the remote node.

The database name is not an existing database at the remote database node. The statement cannot be processed. What should be done resolve the problem?

A. Add a Database Connection Services entry to the /etc/services file on the Windows client.
B. Change the service name (SVCENAME) inthe remote servers database configuration.
C. Match the port number in the CATALOG TCPIP NODE command with the port number in the /etc/services file on the remote server.
D. Add an entry into the Database Connection Services directory on the Windows client.

Answer: B

Question No : 3 - (Topic 1)

A DBA has established connectivity to a DB2 for z/OS database and is exploiting a System z sysplex for load balancing and fault-tolerance. Which series of statements and commands can be issued to ensure that agents remain allocated to help maintain the sysplex server list?

A. UPDATE DBM CFG USING NUM_INITAGENTS 200;
db2stop;
db2start;
B. UPDATE DBM CFG USING NUM_INITAGENTS 0;
db2stop;
db2start;
C. UPDATE DBM CFG USING NUM_POOLAGENTS 200;
db2stop;
db2start;
D. UPDATE DBM CFG USING NUM_POOLAGENTS 0;
db2stop;
db2start;

Answer: C

Question No : 4 - (Topic 1)

Table T1 was created by executing the following statement:

```
CREATE TABLE t1
    (deptno    CHAR(2)  NOT NULL,
     deptname VARCHAR(36) NOT NULL,
     empno    CHAR(3)  NOT NULL)
```

Immediately after creation, table T1 was populated with 10 rows. Later, user USER1 ran an application that inserted100,000 rows into table T1.

The following query is frequently ran against the T1 table:

SELECT deptno, empno, deptname FROM t1 WHERE deptno = 'EN' AND empno = '123'

3

Assuming current statics exist for the table and index, which index will provide optimal performance for this query?

A. CREATE INDEX idx1 ON t1 (deptno, empno) INCLUDE (deptname)
B. CREATE INDEX idx1 ON t1 (deptno, empno)
C. CREATE INDEX idx1 ON t1 (deptno) INCLUDE (empno)
D. CREATE INDEX idx1 ON t1 (deptno)

Answer: B

Question No : 5 - (Topic 1)

Given INTRA_PARALLEL is OFF, average row length is 900 bytes, and temporary table cardinality is 1000, which setting would prevent a SORTHEAP overflow when the temporary table is sorted?

A. SORTHEAPTHRES 10000K, SORTHEAP 250K
B. SORTHEAPTHRES 10000K
C. SORTHEAP AUTOMATIC, SHEAPTHRES 10000K
D. SORTHEAP AUTOMATIC, SHEAPTHRES 0

Answer: D

Question No : 6 - (Topic 1)

Setting the DB2_FMP_COMM_HEAPSZ=0 will result in which the following?

A. User-defined function calls will be disabled.
B. In a partitioned environment,infinite communications will be enabled between partitions.
C. In a partitioned environment, communications will not be buffered.
D. Non-fenced routines can be invoked, however automatic database maintenance will be disabled.

Answer: D

Question No : 7 - (Topic 1)

4

Your UNIX system administrator has indicated that there appears to be a lot of I/O wait time associated with your database, which is stored in a 7+p RAID array. An investigation reveals the following information:

DB2_PARALLEL_IO=*

Tablespace with ID 7 hasa single container and is dedicated to the largest table. It has a page size of 16K, an extent size of 32, and a prefetch size of 64.

Which setting would optimize I/O for the largest table?

A. DB2_PARALLEL_IO=7:64
B. DB2_PARALLEL_IO=7:7
C. DB2_PARALLEL_IO=7:16
D. DB2_PARALLEL_IO=7:32

Answer: B

Question No : 8 - (Topic 1)

Which command CANNOT be used to explicitly build a compression dictionary for a table?

A. REORG
B. LOAD
C. INSPECT
D. IMPORT

Answer: D

Question No : 9 - (Topic 1)

What determines the degree ofinter-partition parallelism used?

A. The number of database partitions and the definition of partition groups.
B. The number of database connections and the definition of partitions groups.
C. The value of the INTER_PARALLEL Database Manager configurationparameter.
D. The value of the DFT_DEGREE database configuration parameter.

Answer: A

Question No : 10 - (Topic 1)

Which statement about compression and temporary tables is NOT correct?

A. When executing queries that require temporary tables, DB2 considers the storage savings and the impact to query performance to determine whether compression is worthwhile.
B. Compression is only applied to created temporary tables that were defined with the CREATE TEMPORARY TABLE ?COMPRESS YES statement.
C. The minimum size thata table must be before compression is used is larger for temporary tables than for regular tables.
D. The explain facility and the db2pd utility can be used to determine whether a temporary table has been compressed.

Answer: B

Question No : 11 - (Topic 1)

A journaling application inserts data with continually increasing sequential keys while a clean up process randomly deletes erroneous rows. What can be done to maximize insert performance?

A. Issue a db2set DB2MAXFSCRSEARCH=1024 command.
B. Issue an ALTER TABLESPACE EXTEND statement.
C. Issue a db2set DB2SKIPDELETED=ON command.
D. Issue an ALTER TABLE APPEND ON statement.

Answer: D

Question No : 12 - (Topic 1)

If the shared sort heap threshold parameter SHEAPTHRES_SHR is set to AUTOMATIC, what will happen?

A. All sorts willbe done in a temporary table space.
B. The shared sort memory allocation will be controlled by DB2.
C. No shared memory is allocated for sorting.
D. All sorts will be done in shared memory.

Answer: B

Question No : 13 - (Topic 1)

Which command will prevent prefetching during crash recovery?

A. db2set DB2_AVOID_PREFETCH=OFF
B. db2set DB2_AVOID_PREFETCH=ON
C. db2set DB2_RECOVERY_PREFETCHING=NO
D. db2set DB2_RECOVERY_PREFETCHING=YES

Answer: B

Question No : 14 - (Topic 1)

Which two operators would indicate inter-partition parallelism in an Optimizer Plan? (Choose two.)

A. LTQ
B. HSJOIN
C. BTQ
D. IP
E. DTQ

Answer: C,E

Question No : 15 - (Topic 1)

What steps, in the correct order, are performed by the SQL and XQuery compilers to generate executable code for non-federated queries?

A. parsequery; rewrite query; check semantics; pushdown predicates; execute access plan
B. check semantics; parse query; rewrite query; build access plan
C. parse query; check semantics; rewrite query; build access plan
D. check semantics; parse query; build access plan; pushdown predicates; execute access plan

Answer: C

Question No : 16 - (Topic 1)

Which database manager configuration parameter is used to set an instance-wide soft limit on the total amount of memory that can be consumed by private sorts, within that instance, at any given time?

A. SORTHEAP
B. SHEAPTHRES_SHR
C. SHEAPTHRES
D. SORTHEAP_SHR

Answer: C

Question No : 17 - (Topic 1)

A table named TAB_A was created with the COMPRESS YES option specified and populated with 100,000 rows. If a DBA wants to create an index ontable TAB_A, which statement is true?

A. In order for the index to be compressed, it must be enabled for compression by specifying the COMPRESS YES option with the CREATE INDEX statement that is used to create it.
B. The index will automatically becompressed since the table it is associated with is compressed; the ALTER INDEX command does not have to be executed.
C. In order for the index to be compressed, it must be enabled for compression by specifying the COMPRESS YES option in the CREATE INDEX statement used to create it; however, the index will not be compressed until the ALTER INDEX command is used to create an index compression dictionary.
D. The index will automatically be enabled for compression because the associated table is compressed; however, the index will not be compressed until it is REORGed.

Answer: B

Question No : 18 - (Topic 1)

Given a SHEAPTHRES value of 2560, in which two cases will a SHEAPTHRES_SHR value of 1024 be meaningful? (Choose two.)

A. INTRA_PARALLEL NO
B. MAX_CONNECTIONS 2000, MAX_COORDAGENTS 100
C. MAX_AGENTS 100, MAX_CONNECTIONS 2000
D. MAX_CONNECTIONS 500, MAX_COORDAGENTS 1000
E. INTRA_PARALLEL YES

Answer: B,E

Question No : 19 - (Topic 1)

If you know that the table space containers for your database reside on RAID-5 3+p arrays, which registry variable should be assigned the value *:3 to help improve performance?

A. DB2_APM_PERFORMANCE
B. DB2_EXTENDED_IO_FEATURES
C. DB2_RESOURCE_POLICY
D. DB2_PARALLEL_IO

Answer: D

Question No : 20 - (Topic 1)

Table TAB1 was created using the following statement:

CREATE TABLE tab1 (c1 INT, c2 INT, c3 INT, c4 INT, c5 INT);

If column C1 is unique and queries typically access columns C1, C2 and C3 together, which statement(s) will create index(es) that will provide optimal query performance?

A. CREATE UNIQUE INDEX xtab1 ON tab1 (c1);
CREATE INDEX xtab2 ON tab1 (c2) INCLUDE (c3);
B. CREATE UNIQUE INDEX xtab1 ON tab1 (c1) INCLUDE (c2, c3);
C. CREATE UNIQUE INDEX xtab1 ON tab1 (c3, c2, c1);
D. CREATE UNIQUE INDEX xtab1 ON tab1 (c2) INCLUDE (c1, c3);

Answer: B
Explanation: