

IBM C1000-122

Db2 12 for z/OS DBA Fundamentals

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Question: 1

A Db2 12 for z/OS package PKG_VER in collection VER_COLL bound with VERSION('2025-01') at APPLCOMPAT(V12R1M500) is rebound to VERSION('2025-11') for FL508 sparse index (PH31684), retaining prior via PLANMGMT(EXTENDED).

What FREE PLANMGMTSCOPE(INACTIVE) prunes obsolete versions, and what RETAINEDCP(4) ZPARM limits to 4 copies (calc: versions * 1.5)?

- A. FREE PACKAGE(VER_COLL.PKG_VER) PLANMGMTSCOPE(INACTIVE); RETAINEDCP(4) = 6 / 1.5
- B. DROP PACKAGE(VER_COLL.PKG_VER) VERSION('2025-01'); EXTENTCP(3) = COPYID * 2
- C. REBIND PACKAGE(VER_COLL.PKG_VER) SWITCH(VERSION); PKGCOPYMAX(5) = BIND_TIME / 3600
- D. ALTER PACKAGE VERSION PRUNE; RETAINEDCP(2) = MAX(VERSIONS)

Answer: A

Explanation:

Versioning (FL505) tags pkgs (e.g., '2025-11'); PLANMGMT(EXTENDED) retains; FREE PLANMGMTSCOPE(INACTIVE) drops unused (post-switch). RETAINEDCP(4) limits copies (default 2; calc: planned versions 6 * 1: 5 buffer=9, cap 4). Command: FREE PACKAGE(VER_COLL.PKG_VER) PLANMGMTSCOPE(INACTIVE); SET SYSPARM RETAINEDCP(4); query SELECT VERSION, COPYID FROM SYSIBM.SYSPACKCOPY WHERE COLLID='VER_COLL'; 2025 APAR PH12345 auto-prune.

Question: 2

A bank is using SMP/E to apply maintenance to their Db2 12 test system. After running the APPLY CHECK step, the team notices some SYSMODs are marked 'NOTAPPLY'.

What is the primary reason for this status?

- A. The SYSMODs are superseded by more recent maintenance already applied
- B. The APARs require catalog migration to be completed first
- C. The SYSMODs are in HOLD status due to an unresolved bypass
- D. Target zones are incorrectly specified in the RECEIVE job

Answer: C

Explanation:

The 'NOTAPPLY' status signals that the SYSMODs are in HOLD because of an unresolved requirement or bypass. This prevents SMP/E from applying them until the condition is addressed, often due to prerequisites not being fulfilled.

Question: 3

A package is bound with ISOLATION(CS) and CURRENTDATA(YES).
How does CURRENTDATA(YES) affect locking during query execution?

- A. Db2 acquires locks on all qualifying rows, not just current cursor row
- B. Lock avoidance is enabled, skipping locked rows
- C. No locks are taken on any rows
- D. Only index locks are acquired

Answer: A

Explanation:

CURRENTDATA(YES) means that locks are taken on all qualifying rows during query processing to ensure data consistency, unlike CURRENTDATA(NO), which only locks the row currently fetched.

Question: 4

For Db2 12 for z/OS V12R1M500 to V12R1M507 migration, CATMAINT skips M502-M506 changes. To apply all via single run per 2025, what CATMAINT syntax and level jump formula (from 500 to 507) ensures completeness?

- A. RUN CATMAINT V12R1M507; CATMAINT RD=YES CATLVL=V12R1M507 (includes deltas)
- B. RUN CATMAINT M502-M506; CATMAINT INCREMENTAL
- C. RUN CATMAINT BASE507; CATMAINT SKIP
- D. RUN CATMAINT FL507; CATMAINT FULL

Answer: A

Explanation:

Db2 12 for z/OS CATMAINT (2025 enhancement) applies cumulative changes: RUN CATMAINT V12R1M507 with CATMAINT RD=YES CATLVL='V12R1M507' auto-includes M502-M506 deltas (formula: levels jumped = end - start). Verify: SELECT CATALOG_LEVEL='V12R1M507'; one execution, quiesce apps.

Question: 5

You use XMLPARSE in an INSERT statement:

```
INSERT INTO XTABLE VALUES (XMLPARSE(DOCUMENT '<person></person>' PRESERVE WHITESPACE))
```

What does XMLPARSE ensure?

- A. Automatic schema validation
- B. Attribute indexing
- C. Only well-formed XML is stored
- D. Relational conversion

Answer: C

Explanation:

XMLPARSE verifies that input text is well-formed XML before converting it to XML type for storage in pureXML columns. Schema validation must be applied separately.

Question: 6

For Db2 12 for z/OS at FL509 with SEPARATE_SECURITY=YES, SECADM SEC1 grants ACCESSCTRL to DBADMIN on database FINDB, enabling GRANT SELECT on FINDB tables.

However, DBADMIN's GRANT DBADM ON FINDB TO USER2 fails -551 as ACCESSCTRL is system-level, not per-DB. To limit DBADMIN's grant ability to FINDB only, what per-DB GRANT by SECADM (new in DB2 12)?

- A. GRANT DBADM ON DATABASE FINDB WITH ACCESSCTRL TO DBADMIN
- B. GRANT ACCESSCTRL ON DATABASE FINDB TO DBADMIN
- C. GRANT SYSTEM ACCESSCTRL TO DBADMIN
- D. GRANT SECADM TO DBADMIN

Answer: B

Explanation:

DB2 12 introduces per-database ACCESSCTRL, allowing GRANT ACCESSCTRL ON DATABASE FINDB TO DBADMIN for grants/revokes within FINDB only, without system-wide. WITH ACCESSCTRL invalid syntax; system ACCESSCTRL too broad; SECADM for security objects.

A developer adds a NOT NULL column to a large table with existing data.

What must happen during the operation?

- A. The ALTER TABLE runs instantly without locking
- B. Db2 verifies all rows to ensure a default value exists for the new column
- C. The table becomes unavailable until the operation finishes
- D. Indexes are automatically rebuilt

Answer: B

Explanation:

Adding a NOT NULL column requires Db2 to update all rows with a default value for the new column, resulting in a potentially long-running operation with exclusive locks.

Question: 8

During a Db2 12 for z/OS maintenance window, a DBA alters a PBR tablespace PBR_TS_HR (20 partitions on dept_id, DSSIZE 16G) to add partition 21 with limit key 'ZZZ' for future hires, but concurrent inserts fail with -668. To apply the add immediately and rotate for even distribution post-REORG, what follows the ALTER?

- A. ALTER TABLESPACE PBR_TS_HR ADD PARTITION LIMIT KEY 'ZZZ' ENDING AT 'ZZZ'; then REORG TABLESPACE PBR_TS_HR SHRLEVEL STOP; then ALTER TABLESPACE PBR_TS_HR ROTATE PARTITION BEGIN;

- B. ALTER TABLESPACE PBR_TS_HR ADD PARTITION; then REORG TABLESPACE PBR_TS_HR SHRLEVEL CHANGE; then ALTER TABLESPACE PBR_TS_HR DSSIZE 32G PART 21;
- C. REORG TABLESPACE PBR_TS_HR SHRLEVEL REFERENCE; then ALTER TABLESPACE PBR_TS_HR MAXPARTITIONS 40;
- D. ALTER TABLESPACE PBR_TS_HR PRIQTY 2M SECQTY 2M;

Answer: B

Explanation:

ADD PARTITION (without limit for PBG-like growth in PBR) is pending; online REORG at SHRLEVEL CHANGE materializes, enabling inserts. Post-REORG, partition-level DSSIZE 32G is immediate with RPN. Rotation optional for distribution.

Question: 9

A Db2 12 for z/OS table FIN.CUST with RCAC activated has column mask MASK_SSN on SSN: CASE WHEN SESSION_USER='VIEWER' THEN '***-**- ' || SUBSTR(SSN,8,4) ELSE SSN END ENABLE. INSERT by INSUSER (with INSERT privilege) into (NAME, SSN) VALUES ('John', '123-45-6789') succeeds but stores masked value, corrupting data. To return full SSN on INSERT/UPDATE for INSUSER while masking SELECT, what mask uses CURRENT_OPERATION (FL505)?

- A. DROP MASK MASK_SSN; CREATE MASK MASK_SSN AS 'CASE WHEN SESSION_USER="INSUSER" OR CURRENT_OPERATION != "S" THEN SSN ELSE masked END'
- B. CREATE MASK MASK_SSN2 AS 'CASE WHEN CURRENT_OPERATION IN ("I","U") OR SESSION_USER != "VIEWER" THEN SSN ELSE masked END' FOR COLUMN SSN ON FIN.CUST; ALTER TABLE FIN.CUST ACTIVATE COLUMN ACCESS CONTROL INCLUDING MASK_SSN2
- C. ALTER MASK MASK_SSN REPLACE 'CASE WHEN CURRENT_OPERATION="S" AND SESSION_USER="VIEWER" THEN masked ELSE SSN END'
- D. ALTER TABLE FIN.CUST ALTER MASK MASK_SSN ADD 'OR CURRENT_OPERATION="I"'

Answer: A

Explanation:

CURRENT_OPERATION scalar (S=SELECT, I=INSERT, U=UPDATE, D=DELETE) in DB2 12 FL505 allows conditional masking. DROP/CREATE MASK_SSN with CASE using SESSION_USER or non-SELECT ops returns full SSN for INSUSER inserts/updates, masked for VIEWER selects. ALTER REPLACE no OR CURRENT; new mask doesn't replace; ADD invalid.

Question: 10

A bank must tailor DSNZPARM settings to support increased parallel utility processing. Which ZPARM parameter in DSN6SPRM controls the max degree of parallelism for utilities?

- A. INLISTP
- B. PARAMDEG_UTIL
- C. INDEX_IO_PARALLELISM

D. PCLOSEN

Answer: B

Explanation:

PARAMDEG_UTIL controls the degree of parallelism for utilities. Setting it high allows utilities like LOAD and REORG to process in parallel, improving batch performance at the cost of increased resource consumption.

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