

C2090-616.exam.37q

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C2090-616

DB2 11.1 Fundamentals for LUW

Exam A

QUESTION 1

A user executes the following statements:

```
CREATE TABLE t1 (c1 INT, c2 INT);  
CREATE ALIAS a1 FOR t1;
```

What will be the result if the user executes the following statement?

```
DROP ALIAS a1;
```



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- A. The alias A1 will be dropped
- B. The table T1 will be dropped
- C. Both T1 and A1 will be dropped
- D. Nothing, the statement will result in an error

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Which constraint can be used to ensure that identical values are never stored in a set of columns in a table?

- A. NOT NULL
- B. Foreign key
- C. Primary key

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

D. Informational constraint

C

Reference: <https://www.ibm.com/developerworks/data/library/techarticle/dm-0401melnyk/index.html>

QUESTION 3

Which of the following is TRUE about a COMMIT statement executed at the end of the T1 unit of work?

- A. A ROLLBACK command executed just after the COMMIT command cancels that COMMIT
- B. Save points defined during transaction T1 are released only if there is a RELEASE SAVEPOINT command executed after the COMMIT command
- C. It finishes the current T1 unit of work and a new one is initiated, however it is possible to ROLLBACK to the latest SAVEPOINT before COMMIT
- D. It finishes the current T1 unit of work and a new one is initiated. All changes made by UPDATE and DELETE commands during unit of work T1 are committed

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPEK_10.0.0/sqlref/src/tpc/db2z_sql_commit.html

QUESTION 4

Which of the following statements about stored procedures is TRUE?

- A. Stored procedures can be written in SQL PL, but not in the PL/SQL dialect
- B. The CREATE SOURCED PROCEDURE statement defines a procedure that is based on another procedure in a federated database
- C. There are three types of stored procedures which can be deployed: SQL procedures, external procedures, and sourced procedures
- D. Two identically-named procedures within a schema are permitted to have exactly the same number of parameters, but the parameters must have different data types assigned

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_10.1.0/com.ibm.db2.luw.sql.ref.doc/doc/r0023603.html

QUESTION 5

Which edition of DB2 LUW has been discontinued in v11.1?

- A. DB2 Developer Edition
- B. DB2 Express Server Edition
- C. DB2 Enterprise Server Edition
- D. DB2 Connect Enterprise Server Edition

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.licensing.doc/doc/r0053238.html

QUESTION 6

Which of the following statements about triggers are TRUE? (Choose two.)

- A. There is a limit of 8 for the maximum number of cascading trigger activations
- B. Triggers can be activated as a result of changes due to referential constraint enforcement
- C. Multiple INSTEAD OF triggers are allowed for each kind of operation on a given subject view
- D. Constraints associated with a subject table are applied between execution of BEFORE and AFTER triggers
- E. The activation of the triggers for a particular table, event and activation time are conducted in descending order of trigger creation time

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_10.5.0/com.ibm.db2.luw.admin.dbobj.doc/doc/c0004113.html

QUESTION 7

Which of the following is TRUE about indexes on column organized tables?

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

- A. No indexes are allowed
- B. Indexes are only allowed on numeric columns
- C. Indexes are automatically created to enforce unique constraints
- D. An index is only allowed on the synopsis table supporting a column organized table

A

QUESTION 8

How can you tell what privileges on a table or view have been granted to a user? (Choose two.)

- A. db2look with the -x option
- B. db2pd with the -auth option
- C. Query the SYSCAT.DBAUTH view
- D. Query the SYSCAT.TABLES view
- E. Query the SYSCAT.TABAUTH view



Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/hr/SSEPGG_9.7.0/com.ibm.db2.luw.admin.sec.doc/doc/t0005823.html

QUESTION 9

The following statements are executed:

```
GRANT CREATETAB, DATAACCESS, ON DATABASE TO ROLE role A;  
GRANT CREATETAB, BINDADD ON DATABASE TO ROLE role B;  
GRANT ROLE role A to USER db2inst3;  
GRANT ROLE role B to USER db2inst3;
```

Which of the following is TRUE if this statement is executed later?

```
REVOKE ROLE roleB FROM USER db2inst3;
```



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- A. This statement will succeed and DB2 INST3 will still be able to create in the database
- B. This statement will succeed and DB2 INST3 only retains DATAACCESS privileges on the database
- C. This statement will fail as CREATETAB is granted to two different roles and must be revoked at the same time
- D. This statement will succeed with a warning since CREATETAB cannot be totally revoked. DB2INST3 will retain both roles

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Which locking event occurs when two applications lock rows that are needed by the other, such that neither application can continue executing?

- A. Deadlock
- B. Lock timeout
- C. Lock escalation
- D. Lock conversion

Correct Answer: A

Section: (none)

Explanation

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

Reference: <https://www.ibm.com/developerworks/data/library/techarticle/dm-0406whitlark/index.html>

QUESTION 11

BLU Acceleration is included in which of the following edition of DB2 LUW? (Choose two.)

- A. Direct Standard Edition
- B. Enterprise Server Edition
- C. Workgroup Server Edition
- D. DB2 Direct Advanced Edition
- E. Advanced Enterprise Server Edition

BC

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_10.5.0/com.ibm.db2.luw.licensing.doc/doc/r0053238.html

QUESTION 12

Which of the following commands can undo the work done by the current unit of work executing UPDATE statements on a table?

- A. COMMIT
- B. SAVEPOINT
- C. ROLLBACK WORK
- D. UPDATE TERMINATE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPEK_10.0.0/sqlref/src/tpc/db2z_sql_rollback.html

QUESTION 13

Which of the following authorities are sufficient for creating a database? (Choose two.)

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

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.admin.cmd.doc/doc/r0001941.html

QUESTION 14

Which operation typically requires a Share (S) lock?

- A. INSERT
- B. SELECT
- C. DELETE
- D. UPDATE



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.ibm.com/developerworks/data/library/techarticle/dm-0509schuetz/index.html>

QUESTION 15

What type of function is created using the following command?

```
CREATE FUNCTION TAN (X DOUBLE)
RETURNS DOUBLE
LANGUAGE SQL
CONTAINS SQL
NO EXTERNAL ACTION
DETERMINISTIC
```


Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

RETURN SIN(X)/COS(X)

- A. Row
- B. Table
- C. Scalar
- D. External

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPEK_11.0.0/sqlref/src/tpc/db2z_sql_createfuncinlinesqlscalar.html

QUESTION 16

What of the following is TRUE about triggers?



- A. Triggers are activated by INSERT, UPDATE, DELETE and SELECT statements
- B. Triggers can be used to perform data manipulation operations against complex views
- C. Triggers can only be used to execute logic before or after appropriate SQL statements
- D. Only one trigger for a particular event and activation time can be created for a particular table

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_10.5.0/com.ibm.db2.luw.admin.dbobj.doc/doc/c0004113.html

QUESTION 17

Which of the following statements describe super exclusive (Z) locks for a table? (Choose two.)

- A. No other applications can access the table
- B. Only uncommitted read (UR) applications can access the table
- C. The lock owner and other applications can read, but not update, the locked table
- D. The lock owner can both read and update data. Other applications can read the table
- E. This lock is acquired under certain conditions, such as when the table is altered or dropped or an index on the table is dropped

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/hr/SSEPGG_9.7.0/com.ibm.db2.luw.admin.perf.doc/doc/c0005270.html

QUESTION 18

Which of the following statements regarding locking is TRUE?

- A. The same lock modes apply to tables, rows, or blocks
- B. Lock conversion can take place implicitly as a query executes
- C. Changing the mode of a lock that is already held is called lock escalation
- D. Lock conversion is not necessary if an X lock is required and an S or U lock is currently held

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_9.7.0/com.ibm.db2.luw.admin.perf.doc/doc/c0021283.html

QUESTION 19

Which of the following is designed for continuous availability, increased throughput of many concurrent short queries, and easy scalability?

- A. DB2 HADR
- B. DB2 pureScale
- C. DB2 Express-C
- D. DS2 Database Partitioning Feature

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.licensing.doc/doc/c0054843.html

QUESTION 20

Which of the following statements will successfully create a table that stores index data in a different table space than the table data?

- A. CREATE TABLE t1 (c1 INT, c2 INT);
- B. CREATE TABLE t1 (c1 INT, c2 INT) IN TS1 INDEX IN TS2;
- C. CREATE TABLE t1 (c1 INT, c2 INT) IN TS1 INDEX IN TS1;
- D. CREATE TABLE t1 (c1 INT, c2 INT) DATA IN TS1 INDEX IN TS2;

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

Given the following statement:

```
DECLARE GLOBAL TEMPORARY TABLE TEMP1 (  
  ID INTEGER NOT NULL,  
  ITEM CHAR(30),  
  AMOUNT DECIMAL (10,2)  
ON COMMIT DELETE ROWS NOT LOGGED;
```

Which of the following statements are TRUE? (Choose two.)



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- A. Temp1 table is accessed under schema SESSION
- B. Temp1 definition is available for use by other sessions
- C. At the end of a transaction, data is deleted automatically
- D. Definition of the table Temp1 is stored in database catalog
- E. Rows inserted by one session are visible in other sessions

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Which method for restricting data access relies on security labels and security policies to control what data a user can access?

- A. Authentication
- B. Authorities and privileges
- C. Label-based access control
- D. Row and column access control

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.admin.sec.doc/doc/c0021114.html

QUESTION 23

Which of the following compatibility features is always active, regardless of the settings for the DB2_COMPATIBILITY_VECTOR registry variable or the SQL_COMPAT global variable?

- A. Implicit casting
- B. Double-dot notation
- C. Use of bitmap indexes
- D. Selecting from the DUAL table

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSCRJT_5.0.3/com.ibm.swg.im.bigsq.doc/doc/c_compat_oracle.html

QUESTION 24

Which of the following is fundamental to BLU acceleration?

- A. pureScale
- B. Column organized tables
- C. Multidimensional clustering
- D. Purchasing new hardware that is compatible with BLU acceleration and compression

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://www.redbooks.ibm.com/abstracts/tips1204.html?Open>

QUESTION 25

A multi-partition database environment using BLU acceleration is designed to meet which of the following requirements? (Choose two.)

- A. Easy scalability
- B. Management of very large data sets
- C. Continuously available dataset solution
- D. Increased throughput of many concurrent short running queries
- E. Faster response time of long-running or complex queries with I/O spread across many computers

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.licensing.doc/doc/c0054843.html

QUESTION 26

Which of the following set operators can be used to find all rows that are common in 2 queries?

- A. UNION
- B. UNION ALL
- C. EXCEPT ALL
- D. INTERSECT ALL

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

Which of the following SQL statements will update columns C1 to DB2 and C2 to 11 if C3 is 2016?

- A. UPDATE t1 c1 = 'DB2, c2' = 11
- B. UPDATE t1 SET c1 = 'DB2, c2' = 11
- C. UPDATE t1 c1 = 'DB2', c2 = 11 WHERE c3 = 2016

D. UPDATE t1 SET (c1, c2) = ('DB2', 11) = WHERE c3 = 2016

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

If the LOCKSIZE for a table is changed from TABLE to ROW, which of the following is TRUE?

- A. Concurrency may be improved
- B. Lock escalation will be prevented
- C. Query performance will be reduced
- D. The number of locks for the same workload will be reduced

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference: B	2
C.....	3
D.....	8
Correct Answer:	8

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPEK_10.0.0/perf/src/tpc/db2z_recommend4concurrency.html

QUESTION 29

Consider the following query and the resulting set of data:

```
SELECT empno, lastname FROM emp WHERE empno BETWEEN '000020' and '000070'
```

Result:

```
EMPNO LASTNAME
-----
000020 THOMPSON
000030 KWAN
000050 GEYER
000060 STERN
000070 PULASKI
```

If the query below is executed, how many rows will be returned?

```
SELECT empno FROM emp WHERE empno > '000020' AND empno < '000070'
```

A. 0

Section: (none)

Explanation

Explanation/Reference:



QUESTION 30

The application owners say they need to be able to query a table and previous versions of that table. Which type of table is appropriate to satisfy this requirement?

- A. Shadow Table
- B. Temporal Table
- C. Range-Partitioned Table
- D. Multidimensional Clustered Table

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference:

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=2ahUKEwjznP5_vcAhWhApoKHVZBpoQFjAAegQIAhAC&url=https%3A%2F%2Fwww.ibm.com%2Fdeveloperworks%2Fcommunity%2Ffiles%2Fform%2Fanonymous%2Fapi%2Flibrary%2F260f3b12-8adf-46ab-931a-4719de7a812a%2Fdocument%2F902fbb89-41be-4cb5-bb29-d301294a76b3%2Fmedia&usg=AOvVaw1VsAkxdi9s8wQ33oSXjKzP

QUESTION 31

Which of the following is TRUE about DB2 OLAP functions?

- A. They return scalar values and not array values
- B. There are no DB2 monitor elements specific to OLAP functions
- C. OLAP functions are not supported in a common table expression (CTE)
- D. OLAP aggregation functions are not supported with column organized tables

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Which of the following DB2 objects in an efficient way of representing data without the need to maintain it and requires no permanent storage?

- A. View
- B. Alias
- C. Table
- D. Schema



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/SSEPGG_10.5.0/com.ibm.db2.luw.admin.dbobj.doc/doc/c0004106.html

QUESTION 33

What is the maximum length allowed for a VARCHAR2 data type when the VARCHAR2_COMPAT database configuration parameter is set to ON?

- A. 32672 bytes
- B. 65344 bytes
- C. 98016 bytes
- D. 130688 bytes

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPGG_9.8.0/com.ibm.db2.luw.apdv.porting.doc/doc/r0052880.html

QUESTION 34

Application 1 executes the following statements:

```
INSERT INTO TAB1 (NAME,AMOUNT) VALUES ('John',100);  
COMMIT;  
UPDATE TAB1 SET AMOUNT=90 WHERE NAME='John';
```

After a few seconds, application 2 executes the following query:

```
SELECT AMOUNT FROM TAB1 WHERE NAME='John'
```

Assuming the Currently Committed (CUR_COMMIT) configuration parameter is enabled, which of the following is TRUE?

- A. Application 2 will read the amount of 90
- B. Application 2 will read the amount of 100
- C. Application 2 will receive a warning message
- D. Application 2 will enter lock-wait state until application 1 commits or the locktimeout value expires

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/pt/SSEPGG_9.7.0/com.ibm.db2.luw.admin.config.doc/doc/r0053556.html

QUESTION 35

Below are the SQL statements a DBA is planning to execute on a database:

```
CREATE TABLE t1 (name VARCHAR (1));  
INSERT INTO t1 VALUES ('A'), ('B'), ('C'), ('D');  
ALTER TABLE t1 ALTER COLUMN name SET DATA TYPE INT;
```

What will be the outcome of the last statement?

- A. The statement will fail due to variable length character error
- B. The statement will fail due to an incompatible data type error
- C. The statement will execute successfully and it deletes the character data
- D. The statement will execute successfully and it internally converts the character data into ASCII numbers

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://dev.mysql.com/doc/refman/5.5/en/alter-table.html>

QUESTION 36

The DDL statement is used to create table T1:

```
CREATE TABLE t1 (  
  c1 INTEGER, c2  
  INTEGER NOT NULL,  
  c1 DECIMAL(11,2),  
  c4 TIMESTAMP WITH DEFAULT CURRENT_TIMESTAMP  
)
```



Which of the following INSERT statements will execute successfully?

- A. INSERT INTO t1 VALUES (100)
- B. INSERT INTO t1 (c1, c2) VALUES (100)
- C. INSERT INTO t1 (c1, c3) VALUES ('100', '100.00')
- D. INSERT INTO t1 (c2, c3) VALUES (100, 100.00), (101, 101)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

If you are already connected to a database, what does running the following statement do?

Db2 CONNECT

- A. Prompts you for the database name or alias
- B. Returns information about the current server
- C. Prompts you for the authentication information
- D. Returns an error, because you provided no database or alias

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSEPEK_10.0.0/sqlref/src/tpc/db2z_sql_connect.html



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