



C2090-730^{Q&As}

DB2 9 Family Fundamentals

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QUESTION 1

Given the following DDL for the PARTS table:

```
CREATE TABLE parts (part_no INT(9) NOT NULL, part_name VARCHAR(24), part_remain INT(9));
```

All part numbers entered will be different and all rows should be displayed in order of increasing part numbers whenever the table is queried. Which of the following create index statements will meet this criteria and require the least amount of storage for the index object?

- A. CREATE UNIQUE INDEXidx_partno ON parts(part_no)
- B. CREATE UNIQUE INDEXidx_partno ON parts(part_name ASC)
- C. CREATE UNIQUE INDEXidx_partno ON parts(part_name, part_no ASC)
- D. CREATE UNIQUE INDEXidx_partno ON parts(part_no, part_name ASC)

Correct Answer: A

QUESTION 2

Given the following tables: TABLEA EMPIDNAME

1 USER1 2 USER2

TABLEB

EMPID WEEKNO PAYAMT

1 1 1000.00

1 2 1000.00

2 1 2000.00

and the fact that TABLEB was defined as follows:

```
CREATE TABLE tableb (empid SMALLINT,  
weekno SMALLINT,  
payamt DECIMAL(6,2),  
CONSTRAINT const1 FOREIGN KEY (empid)  
REFERENCES tablea(empid)  
ON DELETE NO ACTION)
```

If the following command is issued:

```
DELETE FROM tablea WHERE empid=2
```



How many rows will be deleted from TABLEA and TABLEB?

- A. TABLEA - 0, TABLEB - 0
- B. TABLEA - 0, TABLEB - 1
- C. TABLEA - 1, TABLEB - 0
- D. TABLEA - 1, TABLEB - 1

Correct Answer: A

QUESTION 3

What does the following statement do?

GRANT REFERENCES (col1, col2) ON TABLE table1 TO user1 WITH GRANT OPTION

- A. Gives user USER1 the ability to refer to COL1 and COL2 of table TABLE1 in queries, along with the ability to give this authority to other users and groups.
- B. Gives user USER1 the ability to refer to COL1 and COL2 of table TABLE1 in views, along with the ability to give this authority to other users and groups.
- C. Gives user USER1 the ability to define a referential constraint on table TABLE1 using columns COL1 and COL2 as the parent key of the constraint.
- D. Gives user USER1 the ability to define a referential constraint on table TABLE1 using columns COL1 and COL2 as the foreign key of the constraint.

Correct Answer: C

QUESTION 4

A sequence was created with the DDL statement shown below:

```
CREATE SEQUENCE my_seq START WITH 10 INCREMENT BY 10 CACHE 10
```

User USER1 successfully executes the following statements in the order shown:

```
VALUES NEXT VALUE FOR my_seq INTO :hvar; VALUES NEXT VALUE FOR my_seq INTO :hvar;
```

User USER2 successfully executes the following statements in the order shown:

```
ALTER SEQUENCE my_seq RESTART WITH 5 INCREMENT BY 5 CACHE 5; VALUES NEXT VALUE FOR  
my_seq INTO :hvar;
```

After users USER1 and USER2 are finished, user USER3 executes the following query:



SELECT NEXT VALUE FOR my_seq FROM sysibm.sysdummy1

What value will be returned by the query?

- A. 5
- B. 10
- C. 20
- D. 30

Correct Answer: D

QUESTION 5

Which of the following is the lowest cost DB2 product that can be legally installed on a Windows server that has 2 CPUs?

- A. DB2 Everyplace
- B. DB2 Express Edition
- C. DB2 Workgroup Server Edition
- D. DB2Enterprise Server Edition

Correct Answer: B

QUESTION 6

Application A is designed to execute the following SQL statements within a single Unit of Work (UOW).

```
UPDATE employee SET salary = salary * 1.1 WHERE empno='000010' UPDATE department SET deptname = 'NEW dept' WHERE deptno='A00'
```

Application B is designed to execute the following SQL statements within a single Unit of Work (UOW).

```
UPDATE department SET deptname = 'OLD DEPT' WHERE deptno='A00' UPDATE employee SET salary = salary * 0.5 WHERE empno='000010'
```

Application A and application B execute their first SQL statement at the same time. When application A and application B try to execute their second SQL statement, a deadlock occurs.

What will happen?

- A. The database manager will rollback the transaction in both applications.



- B. The database manager will rollback the transaction in one of the two applications.
- C. Application B will successfully update the EMPLOYEE and DEPARTMENT tables; Application A will be placed in a lock wait state.
- D. Application A will successfully update the EMPLOYEE and DEPARTMENT tables; Application B will terminate when the lock timeout value is reached.

Correct Answer: B

QUESTION 7

If table TAB1 is created using the following statement:

```
CREATE TABLE tab1 (col1 INTEGER NOT NULL,  
col2 CHAR(5),  
CONSTRAINT cst1 CHECK (col1 in (1, 2, 3)))
```

Which of the following statements will successfully insert a record into table TAB1?

- A. INSERT INTO tab1 VALUES (0, '\\abc\\')
- B. INSERT INTO tab1 VALUES (NULL, '\\abc\\')
- C. INSERT INTO tab1 VALUES (ABS(2), '\\abc\\')
- D. INSERT INTO tab1 VALUES (DEFAULT, '\\abc\\')

Correct Answer: C

QUESTION 8

Given the following two tables: TAB1 C1 C2

A 11 B 12 C 13 TAB2 CX CY

A 21 C 22 D 23

The following results are desired:

C1 C2 CX CY

A 11 A 21 C 13 C 22 -- -- D 23

Which of the following queries will yield the desired results?

- A. SELECT * FROM tab1 INNER JOIN tab2 ON c1=cx



- B. SELECT * FROM tab1 LEFT OUTER JOIN tab2 ON c1=cx
- C. SELECT * FROM tab1 FULL OUTER JOIN tab2 ON c1=cx
- D. SELECT * FROM tab1 RIGHT OUTER JOIN tab2 ON c1=cx

Correct Answer: D

QUESTION 9

When defining a referential constraint between the parent table T2 and the dependent table T1, which of the following is true?

- A. The list of column names in the FOREIGN KEY clause can be a subset of the list of column names in the primary key of T2 or a UNIQUE constraint that exists on T2.
- B. The list of column names in the FOREIGN KEY clause can be a subset of the list of column names in the primary key of T1 or a UNIQUE constraint that exists on T1.
- C. The list of column names in the FOREIGN KEY clause must be identical to the list of column names in the primary key of T2 or a UNIQUE constraint that exists on T2.
- D. The list of column names in the FOREIGN KEY clause must be identical to the list of column names in the primary key of T1 or a UNIQUE constraint that exists on T1.

Correct Answer: C

QUESTION 10

Application A issues the following SQL statements within a single transaction using the Uncommitted Read

isolation level:

```
SELECT * FROM department WHERE deptno = 'A00';
```

```
UPDATE department SET mgrno = '000100' WHERE deptno = 'A00';
```

As long as the transaction is not committed, which of the following statements is FALSE?

- A. Other applications not running under the Uncommitted Read isolation level are prohibited from reading the updated row
- B. Application A is allowed to read data stored in another table, even if an Exclusive lock is held on that table
- C. Other applications running under the Uncommitted Read isolation level are allowed to read the updated row
- D. Application A is not allowed to insert new rows into the DEPARTMENT table as long as the current transaction remains active



Correct Answer: D

QUESTION 11

CREATE TABLE customer (cid BIGINT NOT NULL PRIMARY KEY, info XML) How many names will be returned for this XQuery?

```
INSERT INTO customer (cid, info) VALUES (1000,
'<customerinfo xmlns="http://posample.org" Cid="1000">
  <name>Kathy Smith</name>
  <addr ccountry="United States">
    <street>5 Rosewood</street>
    <city>Ontario</city>
    <prov-state>California</prov-state>
    <pcode-zip>91764</pcode-zip>
  </addr>
  <phone type="work">501-555-1358</phone>
</customerinfo>')
```

```
INSERT INTO customer (cid, info) VALUES (1002,
'<customerinfo xmlns="http://posample.org" Cid="1002">
  <name>Jim Noodle</name>
  <addr ccountry="Canada">
    <street>25 EastCreek</street>
    <city>Markham</city>
    <prov-state>Ontario</prov-state>
    <pcode-zip>N9C 3T6</pcode-zip>
  </addr>
  <phone type="work">905-555-7258</phone>
</customerinfo>')
```

```
INSERT INTO customer (cid, info) VALUES (1003,
'<customerinfo xmlns="http://posample.org" Cid="1003">
  <name>Robert Shoemaker</name>
  <addr ccountry="Canada">
    <street>1596 Baseline</street>
    <city>Aurora</city>
    <prov-state>Ontario</prov-state>
    <pcode-zip>N8X 7F8</pcode-zip>
  </addr>
  <phone type="work">905-555-2937</phone>
</customerinfo>')
```

```
XQUERY declare default element namespace "http://posample.org";
for $d in db2-fn:xmlcolumn('CJSTOMER.INFO')/customerinfo
where $d/addr/prov-state="Ontario"
return <out>{$d/name}</out> ActualTests
```

- A. 0
- B. 1
- C. 2
- D. 3

Correct Answer: C



QUESTION 12

Consider the following table called EMPLOYEES:

```
ID FIRSTNAME LASTNAME JOB LEVEL ----- 1 Paul Jones DBA 2 2 George Baker MGR 1 3 Roger Melvin CLERK 3 4 Jim Smith MGR 1 5 Kevin Street CLERK 3 6 Chris Eaton MGR 1
```

If the following SQL statement is executed, how many rows will be deleted? DELETE FROM employees WHERE 1 = 1

- A. 0
- B. 1
- C. 3
- D. 6

Correct Answer: D

QUESTION 13

Given the following query:

```
SELECT quantity,  
CASE WHEN itemcode = '099' THEN 'SILVER'  
WHEN itemcode = '788' THEN 'GOLD'  
WHEN itemcode = '899' THEN 'PLATINUM'  
ELSE 'ERROR'  
END FROM supplier
```

What will be the result of the query if the following data is evaluated by the CASE expression?

```
SUPPLIER  
QUANTITY ITEMCODE 3 099 4 099 1 788 1 899 5 009 3 788 1 899
```

- A. 3,SILVER 4,GOLD 1,SILVER 1,GOLD 5,PLATINUM 3,SILVER 1,GOLD
- B. 3,SILVER 4,SILVER 1,GOLD 1,PLATINUM 5,ERROR 3,GOLD 1,PLATINUM
- C. 3,SILVER 4,SILVER 1,PLATINUM 1,ERROR 5,SILVER 3,GOLD 1,PLATINUM
- D. 3,SILVER 1,GOLD 1,GOLD 5,SILVER 3,ERROR 1,PLATINUM



Correct Answer: B

QUESTION 14

Which of the following tools is used to view historical information about tasks, database changes, messages, and notifications?

- A. Journal
- B. Task Center
- C. Control Center
- D. Activity Monitor

Correct Answer: A

QUESTION 15

Given the following CREATE TABLE statement:

```
CREATE TABLE EMPLOYEE  
(EMPNO CHAR(3) NOT NULL,  
FIRSTNAME CHAR(20) NOT NULL,  
MIDINIT CHAR(1),  
LASTNAME CHAR(20) NOT NULL,  
SALARY DECIMAL(10, 2))
```

Which of the following will retrieve the rows that have a missing value in the MIDINIT column?

- A. `SELECT * FROM employee WHERE midinit = ''`
- B. `SELECT * FROM employee WHERE midinit = NULL`
- C. `SELECT * FROM employee WHERE midinit = " "`
- D. `SELECT * FROM employee WHERE midinit IS NULL`

Correct Answer: D