

## Database Technologies (DBT)

Date:

Question generated by: Mr. Ashok Pate

### Topic / Module: DBT (Session 1)

Q. No.1

A \_\_\_\_\_ is used to define overall design of the database.

Answer Choices

- A. Schema
- B. Application program
- C. Data definition language
- D. None of the above

Correct Answer: A

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

A software system that enables users to define, create, maintain, and control Access to the database.

Answer Choices

- A. Database Management System
- B. Data Management
- C. Filing system
- D. Record

Correct Answer: A

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

## Topic / Module: DBT (Session 2)

Q. No.1

What is the meaning of Null Values in Systematic Treatment of Null Values in the Codd's Rules?

Answer Choices

- A. No value in cell
- B. NULL value in column
- C. Unknown data
- D. All of the above

Correct Answer: D

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which of the following is among the Codd's Rules?

Answer Choices

- A. View Updating Rule
- B. Relational Level Operation Rule
- C. Distribution Independence Rule
- D. None of the above

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

In SELECT \* FROM clients; what does clients represent?

Answer Choices

- A. a SQL query
- B. a SQL statement
- C. a database
- D. a table

Correct Answer: D

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 3)**

Q. No.1

degree in DBMS, also called as \_\_\_\_\_.

Answer Choices

- A. arity
- B. rows
- C. foreign key
- D. primary key

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which of the following is the correct syntax for using the TRUNCATE statement?

Answer Choices

- A. TUNCATE TABLE-NAME;
- B. TRUNCATE TABLE-NAME DATABASE-NAME;
- C. TRUNCATE TABLE TABLE-NAME;
- D. TRUNCATE DATABASE-NAME TABLE-NAME;

Correct Answer: C

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

You are building a table schema to store student grades as a letter (A, B, C, D, or F).

Which column type is the best choice?

Answer Choices

- A. VARCHAR
- B. ENUM
- C. LONGTEXT
- D. TEXT

Correct Answer: B

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 4)**

Q. No.1

GROUP BY clause is used to \_\_\_\_\_.

Answer Choices

- A. group the records based on grouped columns
- B. perform aggregate function in grouped records
- C. Both A and B is correct
- D. sort the data

Correct Answer: C

Difficulty Level: Easy/ Intermediate/ Difficult

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which of the following is the correct syntax to add a field using alter command?

Answer Choices

- A. ALTER TABLE table\_name ADD fieldName data type;
- B. ALTER TABLE table\_name, fieldName data type;
- C. ALTER TABLE fieldName data type;
- D. None of the above.

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

What does the following SQL statement return?

```
SELECT * FROM Employees WHERE EmployeeName LIKE 'a%';
```

Answer Choices

- A. records in the Employees table where the value in the EmployeeName column doesn't have an "a".
- B. records in the Employees table where the value in the EmployeeName column starts with "a"
- C. records in the Employees table where the value in the EmployeeName column has an "a"
- D. records in the Employees table where the value in the EmployeeName column ends with "a"

Correct Answer: B

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 5)**

Q. No.1

$R \cap S$  returns

Answer Choices

- A. only those rows which have the common values in both R and S relation
- B. only those rows from relation R which do not have the common values in relation S
- C. only those rows from relation S which do not have the common values in relation R
- D. None of the above is true

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Examine the given statement.

create table food(foodID int primary key, name varchar(10));

Which of the following statement will add AUTO\_INCREMENT attribute on foodID column?

Answer Choices

- A. alter table food modify column foodID int auto\_increment;
- B. alter table food modify foodID int auto\_increment;
- C. alter table food modify foodID int primary key auto\_increment;
- D. Both A and B are correct

Correct Answer: D

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

### Topic / Module: DBT (Session 6)

Q. No.1

Which operator checks whether the particular condition record exists in the table or not?

Answer Choices

- A. Exists
- B. Is null
- C. Not null
- D. Is Exists

Correct Answer: A

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which type of join combines the result from both the tables and returns us the Cartesian product of the values?

Answer Choices

- A. Right join
- B. Left join
- C. Inner join
- D. Cross join

Correct Answer: D

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

SQL EXCEPT returns the record from -

Answer Choices

- A. First SELECT Query
- B. Second SELECT Query
- C. Third SELECT Query
- D. None of the above

Correct Answer: A

Difficulty Level: Easy/ Intermediate/ Difficult

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.4

What is the valid way to create a database view in MySQL?

Answer Choices

- A. CREATE VIEW v1 SELECT \* FROM t1 WHERE col1 > 10;
- B. CREATE VIEW v1 AS BEGIN SELECT \* FROM t1 END;
- C. CREATE VIEW v1 BEGIN SELECT \* FROM t1 END;
- D. CREATE VIEW v1 AS SELECT \* FROM t1;

Correct Answer: D

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

### **Topic / Module: DBT (Session 7)**

Q. No.1

SQL Indexes slows the execution time of which statement(s)?

Answer Choices



- A. UPDATE
- B. INSERT
- C. SELECT
- D. Both A and B

Correct Answer: D

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which of the following are the storage engines available in MySQL?

Answer Choices

- A. INNODB
- B. MEMORY
- C. CSV
- D. All of the above

Correct Answer: D

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

### Topic / Module: DBT (Session 8)

Q. No.1

To invoke a stored procedure, use the \_\_\_\_\_ statement.

Answer Choices

- A. Invoke
- B. RUN
- C. CALL
- D. None of the above.

Correct Answer: C

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

\_\_\_\_\_ statements within stored routines are not permitted.

Answer Choices

- A. INSERT
- B. CREATE TABLE
- C. USE
- D. UPDATE

Correct Answer: C

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

If you create a stored function named LENGTH in the test schema, invoke it as

\_\_\_\_\_.

Answer Choices

- A. SELECT LENGTH()
- B. SELECT test.LENGTH()
- C. SELECT test.LENGTH
- D. SELECT test=>LENGTH()

Correct Answer: B

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 9)**

Q. No.1

MySQL does not support \_\_\_\_\_.

Answer Choices

- A. WHILE loops
- B. FOR loops
- C. LOOP
- D. it supports all of the above loops

Correct Answer:

Difficulty Level: Easy/ Intermediate/ Difficult

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which function is used to extract substrings from the column of the table

Answer Choices

- A. ROUND()
- B. MID()
- C. FORMAT()
- D. NOW()

Correct Answer: B

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 10)**

Q. No.1

What does COUNT() function returns?

Answer Choices

- A. Average value
- B. Largest value
- C. Smallest value
- D. Number of rows

Correct Answer: D

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

If there are no matching rows, SUM() returns \_\_\_\_\_.

Answer Choices

- A. 0
- B. -1
- C. NULL
- D. UNDEFINED

Correct Answer: C

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 11)**

Q. No.1

Cursor declarations must appear \_\_\_\_\_ handler declarations.

Answer Choices

- A. before
- B. after
- C. either before or after

D. in begin block

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Cursors \_\_\_\_\_.

Answer Choices

A. is Asensitive

B. is Read only

C. is Nonscrollable

D. is all of the above

Correct Answer: D

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

### Topic / Module: DBT (Session 12)

Q. No.1

A column named with OLD.col\_name is \_\_\_\_\_.

Answer Choices

A. read only

B. write only

C. read write only

D. none of the above

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

In a BEFORE trigger, the NEW value for an AUTO\_INCREMENT column is \_\_\_\_\_.

Answer Choices

- A. 0
- B. 1
- C. -1
- D. NULL

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

A trigger is a database object that is associated with a table, and that activates when a particular event occurs for the table. Which three events are these?

Answer Choices

- A. INSERT, UPDATE, DELETE
- B. CREATE, ALTER, DROP
- C. INSERT, UPDATE, DROP
- D. INSERT, UPDATE, DELETE, SELECT

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 13)**

Q. No.1

DECLARE \_\_\_\_\_ HANDLER FOR condition\_value

Answer Choices

- A. CONTINUE
- B. EXIT
- C. either A or B can be given
- D. ROLLBACK

Correct Answer: C

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

In table X following row is present.

<u>C1</u>	<u>C2</u>
7	7

Examine the following code.

```
DROP PROCEDURE IF EXISTS PRO1;
```

```
DELIMITER $
```

```
CREATE PROCEDURE PRO1 (C1 INT)
```

```
BEGIN
```

```
    SELECT C1 FROM X;
```

```
END $
```

```
DELIMITER ;
```

```
SQL> CALL PRO1(12);
```

What will be the output?

Answer Choices

- A. 7
- B. 12
- C. error

D. NULL

Correct Answer: B

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

### Topic / Module: DBT (Session 14)

Q. No.1

MongoDB stores data in \_\_\_\_\_, which are a group of BSON (Binary JSON) documents where each document is essentially built from a field-value structure.

Answer Choices

- A. table
- B. collections
- C. array
- D. structure

Correct Answer: B

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Amongst which of the following is / are true about MongoDB?

Answer Choices

- A. MongoDB is a cross-platform database
- B. Document oriented database
- C. High performance database
- D. All of the mentioned above are true

Correct Answer: D

Difficulty Level: Easy



Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Topic / Module: DBT (Session 15 & 16)**

Q. No.1

TO drop a database in MongoDB use \_\_\_\_\_ command.

Answer Choices

- A. db.dropDatabase()
- B. db.test.dropDatabase()
- C. db.test.drop();
- D. none of the above

Correct Answer: A

Difficulty Level: Easy

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.2

Which of the following is not a valid stage for the db.collection.aggregate() command?

Answer Choices

- A. \$group
- B. \$match
- C. \$sort
- D. \$concat

Correct Answer: D

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.3

What is the purpose of the \$lookup operator in MongoDB?

Answer Choices

- A. To join documents from multiple collections
- B. To update multiple documents in a collection
- C. To delete documents from a collection
- D. To retrieve a subset of fields from documents in a collection

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.4

Which stage is used to group documents by a specific field in the MongoDB Aggregation Pipeline?

Answer Choices

- A. \$match
- B. \$group
- C. \$project
- D. \$sort

Correct Answer: B

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

Q. No.5

Which command is used to create a capped collection in MongoDB?

Answer Choices

- A. `db.createCollection("myCollection", { capped: true, size: 100000 })`
- B. `db.collection("myCollection").createCapped({ size: 100000 })`
- C. `db.createCappedCollection("myCollection", 100000)`
- D. `db.collection("myCollection").create({ capped: true, size: 100000 })`

Correct Answer: A

Difficulty Level: Intermediate

Reference: (Name of books)

(If question taken from book) (Mention name of the book, author, ISBN)

**Total Number of Questions Generated: 40**