

### 1. Match the types of SQL commands (Queries)

A	DDL	1	Insert, Update, Delete
B	DCL	2	Commit, Rollback, Savepoint
C	DML	3	Select
D	DQL	4	Create, Drop, Alter, Truncate
E	TCL	5	Grant, Revoke

A-4 B-1 C-3 D-2 E-5

**A-4 B-5 C-1 D-3 E-2**

A-1 B-5 C-3 D-4 E-2

A-4 B-2 C-1 D-3 E-5

### 2. Which of the subsequent SQL statements should be used to add a new column to an existing table? (DDL)

ADD COLUMN

UPDATE TABLE

MODIFY COLUMN

**ALTER TABLE**

The ALTER TABLE statement in SQL is used to modify the structure of an existing table, which includes adding or deleting columns, modifying data types or constraints, and so on. The specific syntax for adding a new column to an existing table is:

### 3. Which of the above SQL statements inserts data into a table while selecting data from another table? (DML)

UPDATE

MERGE

**INSERT INTO...SELECT**

DELETE

The INSERT INTO...SELECT statement is a Data Manipulation Language (DML) statement in SQL that is used to insert data into a table by selecting data from another table. The syntax snippet of the INSERT INTO...SELECT statement is as follows:

**INSERT INTO** table\_name (column1, column2, ...)

**SELECT** column1, column2, ...

**FROM** another\_table

**WHERE** ...

**4. Which of the following SQL statements is used to fetch data from various tables according to a given condition? (DQL)**

SELECT ALL  
SELECT UNION  
SELECT DISTINCT  
**SELECT JOIN**

The SELECT JOIN statement in SQL is used to retrieve data from multiple tables based on a specified condition. There are different types of join operations available in SQL, including INNER JOIN, LEFT JOIN, RIGHT JOIN, and FULL OUTER JOIN. The syntax for an INNER JOIN is as follows:

```
SELECT column1, column2, ...  
FROM table1  
INNER JOIN table2  
ON table1.column = table2.column;
```

**5. Which of the following SQL statements is used to grant privileges to a user in a database? (DCL)**

**GRANT**  
GRANT PRIVILEGES  
GRANT PERMISSIONS  
GRANT USER

The syntax for granting privileges is as follows:

```
GRANT privilege_name  
ON object_name  
TO user_name;
```

**6. Which of the subsequent SQL statements is used to go back to a particular savepoint within a database transaction? (TCL)**

ROLLBACK  
ROLLBACK TO  
**ROLLBACK SAVEPOINT**  
ROLLBACK TRANSACTION

The syntax for rolling back to a savepoint is as follows

```
ROLLBACK TO savepoint_name;
```

This statement rolls back to the specified savepoint within the current transaction, undoing all changes made after the savepoint was set.

**7. In order to end a database transaction without committing or rolling back the changes, which of the following SQL statements is used? (TCL)**

**END TRANSACTION**  
EXIT TRANSACTION  
HALT TRANSACTION  
COMMIT TRANSACTION

The syntax for ending a transaction is as follows:

**END TRANSACTION;**

This statement ends the current transaction without committing or rolling back the changes. The transaction can be resumed later using the BEGIN TRANSACTION statement.

**8. Which of the following SQL joins returns all rows from the left table and the matching rows from the right table, excluding NULL values where there is no match?**

LEFT JOIN  
RIGHT JOIN  
**INNER JOIN**  
FULL OUTER JOIN

The syntax for an inner join is as follows:

**SELECT \***  
**FROM table1**  
**INNER JOIN table2**  
**ON table1.column = table2.column;**

**9. Describe SQL.**

**A language for database querying**

A database management system

A markup language for web page creation

An email-sending protocol on a network

**10. Which of the following commands is used to select a specific set of columns?**

Selection  
**Projection**  
Join  
Union

**11.NATURAL JOIN is also known as:**

Combination of Union and cartesian product

**Combination of Projection and cartesian product**

Combination of Selection and cartesian product

None

**12. Choose valid SQL data type.**

NUMERIC

CHARACTER

FLOAT

**All of the above**

**13. What do you name a table that is connected to itself?**

Join

**Self join**

Outer join

Equi join

**14.Choose the proper points of view.**

Derived columns

Data security

**All of the above**

Hiding of complex queries

**15. Which definition of relational calculus is correct?**

**It is a non-procedural language**

It is a high level language

It is a procedural language

It is a data definition language

16. Carefully read the query:

```
SELECT emp_name
FROM department
WHERE dept_name LIKE ' _____ Computer Science';
```

Which of the following can be entered into the blank space of the aforementioned Query to choose the "dept name" that also has "computer science" as its ending string?

&

—

%

\$

17. By one to many relationships, what do you mean?

One class may have many teachers

**One teacher can have many classes**

Many classes may have many teachers

Many teachers may have many classes

18. Assume the subsequent transactions with beginning values of 0 for data items P and Q:

For concurrent execution, any non-serial interleaving of T1 and T2 results in

T1: read (P) ;

read (Q) ;

if P = 0 then Q := Q + 1 ;

write (Q) ;

T2: read (Q) ;

read (P) ;

if Q = 0 then P := P + 1 ;

write (P) ;

a schedule that is serializable

**A schedule that is non conflict serializable**

A schedule that is conflict-serializable

a schedule that cannot be represented by a precedence graph

**19. Which of the following statements is executed automatically during a transaction before commit in the event of shutdown?**

**Rollback**

View

Commit

Flashback

**20. Which of the following can be inserted into the blank space in the following query to display the salary from highest to lowest amount and sort the employee names alphabetically?**

```
SELECT *  
FROM instructor  
ORDER BY salary ____, name ____;
```

Ascending, Descending

Asc, Desc

**Desc, Asc**

All of the above

**Important links**

<https://www.interviewbit.com/dbms-mcq/>

<https://www.geeksforgeeks.org/50-dbms-mcqs-with-answers/>

<https://www.javatpoint.com/dbms-mcq>

<https://www.sanfoundry.com/1000-database-management-system-questions-answers/>

<https://engineeringinterviewquestions.com/dbms-multiple-choice-questions/>

<https://www.examtiger.com/mcq/database-concept/>

**Best sites for Database questions Interview Preparation**

- **W3Schools:** wide range of tutorials and exercises
- **SQLZoo:** interactive tutorials that cover SQL topics at various levels of difficulty, from beginner to advanced.
- **HackerRank:** This website offers coding challenges, including SQL.
- **LeetCode:** Similar to HackerRank, LeetCode offers a platform for practicing
- **GeeksforGeeks:** This website offers a variety of tutorials and articles on SQL and related database topics.