



19GEP375 & TECHNICAL INTERVIEWING
Database Management Systems
Multiple Choice Questions with Answers

1. _____ offers the ability to query the data and insert, alter, and delete tuples.

- a. Transaction Control Language (TCL)
- b. Data Control Language (DCL)
- c. Data Definition Language (DDL)
- d. Data Manipulation Language (DML)

Answer: (d) Data Manipulation Language (DML)

2. We can add or remove the user IDs using which of these fixed roles?

- a. db_setupadmin
- b. db_securityadmin
- c. db_accessadmin
- d. db_sysadmin

Answer: (c) db_accessadmin

3. Section (sect name, wing, expenses) and Student (student_ID, name, sect name, fees).

Here in both of these relations, the sect_name attribute appears commonly. In this case, using common attributes in the relation schema is a way in which we can relate the _____ relations.

- a. Tuple of common
- b. Attributes of common
- c. Attributes of distinct
- d. Tuple of distinct

Answer: (d) Tuple of distinct

4.

SELECT title

FROM teacher

WHERE fees <= 200000 AND fees >= 80000;

We can replace this query by which of these?

a.

```
SELECT title  
FROM teacher  
WHERE fees BETWEEN 200000 AND 80000;
```

b.

```
SELECT title  
FROM staff  
WHERE fees BETWEEN 80000 AND 200000;
```

c.

```
SELECT title  
FROM staff  
WHERE fees <= 80000 AND fees >=200000;
```

d.

```
SELECT title  
FROM teacher  
WHERE fees BETWEEN 80000 AND 200000;
```

Answer: (d)

```
SELECT title  
FROM teacher  
WHERE fees BETWEEN 80000 AND 200000;
```

5. Which symbol do we use in place of the except?

a. ~

b. \neg

c. V

d. ^

Answer: (b) \neg

6. What is an alternative name for a weak entity?

a. Dominant

b. Owner

c. Child

d. All of the above

Answer: (c) Child

7. Assume a relation X (M, N, O, P, Q) that has the following functional dependencies:

MNO \rightarrow PQ and

P \rightarrow MN

The total number of superkeys of X would be:

a. 12

b. 10

c. 7

d. 2

Answer: (b) 10

8. Fifth Normal form is concerned with:

a. Join dependency

b. Domain-key

c. Multivalued dependency

d. Functional dependency

Answer: (a) Join dependency

9. The _____ system does not require a password to travel across the internet.

a. Response

b. Challenge-response

c. Manipulation

d. Readable

Answer: (b) Challenge-response

10. We can force a log switch by using:

a. ALTER SYS LOGFILES

b. ALTER SYSTEM SWITCH LOGS

c. ALTER SYSTEM LOG

d. ALTER SYSTEM SWITCH LOGFILE

Answer: (d) ALTER SYSTEM SWITCH LOGFILE

11. When recovering from a failure:

a. examination of each pair of physical blocks occurs

b. examination of a specified pair of physical blocks occurs

- c. examination of the first pair of physical blocks occurs
- d. none of the above

Answer: (a) examination of each pair of physical blocks occurs

12. The Optical disk technology utilises:

- a. RAID
- b. A laser beam
- c. DAT
- d. Helical scanning

Answer: (a) RAID

13. The node pointing towards another node in a B+ tree is known as:

- a. External node
- b. Leaf node
- c. Internal node
- d. Final node

Answer: (c) Internal node

14. Identify the statement among the following that is FALSE:

- a. The relation in which all keys have only a single attribute is in its 2NF
- b. A relation that has two attributes is in its BCNF
- c. The prime attribute can depend transitively on any key in the case of a relation that is in its BCNF
- d. The prime attribute can depend transitively on any key in the case of a relation that is in its 3 NF

Answer: (c) The prime attribute can depend transitively on any key in the case of a relation that is in its BCNF

15. A transaction enters into its _____ state when it finishes the final statement.

- a. Abort state
- b. Partially committed state
- c. Committed state
- d. Active state

Answer: (b) Partially committed state