

## **Interview Questions Practice Dated 6-03-2022**

### **Database Questions**

**1. What is data?**

**Ans:-** Raw facts and figures are called data.

**2. What is information?**

**Ans:-** Meaningful data is called information.

**3. What is database?**

**Ans:-** Collection of data and information is called database.

**4. What is database management system?**

**Ans:-** The database management system is a type of application software, which is used to manage database. It provide facilities to create, access and manipulate data within database. E.g. MySQL, Oracle, MS-Access, SQLite, SQL Server are popular relational database management system.

**5. What are database users?**

**Ans:-** There are three types of database users:-

**End Users:-** End users are those users who use database through application. They don't know about existence of database.

**Programmers:-** Programmers are professional, they use database to develop applications.

**DBA:-** DBA is called database administrator. They are responsible for creation of database.

**6. How many types of data models?**

**Ans:-** In Database there are five types of data models:-

i.) Relational data model

ii.) Hierarchical data model

iii.) Network data model

iv.) ER Model

v.) Object oriented model

**7. What is SQL?**

**Ans:-** SQL is stand for structured query language, it is used to perform database operations.

**8. What are subsets of SQL?**

**Ans:-** Based on database operations SQL is categorized in four parts:-

i.) DDL (Data Definition Language)

ii.) DML (Data Manipulation Language)

iii.) DCL (Data Control Language)

iv.) TCL (Transaction Control Language)

**9. What is use of create command?**

**Ans:-** Create command is used to create a new database object. For example by using create command you can create database, table, view, users...etc.

```
create table employee
(
empid int,
empname varchar2(40),
salary int
);
```

**10. What is use of alter command?**

**Ans:-** Alter command is used to modify database object. It is used to change the structure of database object.

**11. What is difference between alter command and update command?**

**Ans:-** Alter command is used to modify structure of database object, whereas update command is used to modify record in table.

**12. What is use of truncate command?**

**Ans:-** The truncate command is used to delete all data from database object, but structure remains. You can't rollback truncate command.

**13. What is difference between drop and truncate command?**

**Ans:-** The drop command delete database object along with data and structure. The truncate command delete all data from database object, but structure remains.

**14. What is use of grant command?**

**Ans:-** The grant command is used to give rights to database user.

**15. What is use of revoke command?**

**Ans:-** The revoke command is used to take off rights to database user. It is just opposit to grant command.

**16. What is use of insert command?**

**Ans:-** Insert command is used to insert record into table.

**17. What is use of delete command?**

**Ans:-** Delete command is used to delete record from table.

**18. What is difference between delete command and truncate command?**

**Ans:-** Delete command is used to delete record from table, this command can be rollback. Truncate command is used to delete all data from table, this command can't be rollback.

**19. What is use of update command?**

**Ans:-** Update command is used to modify record in table.

**20. What is use of select command?**

**Ans:-** Select command is used to select records from table.

**21. What is use of rename command?**

**Ans:-** Rename command is used to change the name of database object.

**22. What is backup command?**

**Ans:-** Backup command is used to take backup of database.

**23. What is restore command?**

**Ans:-** Restore command is used to reconstruct database from its backup.

**24. What is table?**

**Ans:-** Table is the collection of rows and columns. Rows are called tuples and columns are called attributes.

**25. What is primary key?**

**Ans:-** Primary key is a field in a table which is used to identify each record uniquely. It is atomic and not null.

**26. What is foreign key?**

**Ans:-** Foreign key is a field in table which works as primary key in another table. It is used to establish relationship in two table. In a table there can be more than one foreign key.

**27. What is where clause?**

**Ans:-** Where clause is used to specify condition in SQL statement.

**28. What is order by clause?**

**Ans:-** Order by clause is used to arrange records in ascending order or descending order.

**29. What is unique key?**

**Ans:-** Unique key is used to identify each record uniquely. In Unique key field you can insert null value also.

**30. What is join operation?**

**Ans:-** If you want to select records from two tables then you can perform join operation.

**31. What are types of join operation?**

**Ans:-** Join operations are following types:-

i.) Natural Join

ii.) Left Join

iii.) Right Join

iv.) Inner Join

v.) Outer Join

**32. What is view?**

**Ans:-** View is a type of virtual table, which is created from another table.

**33. What are different types of constraints?**

**Ans:-** In SQL there are following types of constraints:-

i.) Primary Key

ii.) Foreign Key

iii.) Unique Key

iv.) Check

v.) NOT NULL

vi.) Default

**34. What is NOT NULL?**

**Ans:-** If you specify NOT NULL constraint in a field, then you can not insert NULL value in that field.

**35. What is use of check constraint?**

**Ans:-** Check constraint is used to validate field in a table.

**36. What is candidate key?**

**Ans:-** If you specify primary key by combining two or more fields then resultant key is known as candidate key.

**37. What is subquery?**

**Ans:-** If we specify a query within another query, then it is called subquery.

**38. What is use of sum() function?**

**Ans:-** sum() function is used to find sum of values of given column.

**39. What is use of max() function?**

**Ans:-** max() function is used to find maximum value of given column.

**40. What is use of min() function?**

**Ans:-** min() function is used to find minimum value of given column.

**41. What is use of count() function?**

**Ans:-** count() function is used to count number of rows in a table.

**42. Write a query to select record with maximum salary?**

**Ans:-** `select * from employee where salary=(select max(salary) from employee);`

**43. Write a query to find second largest salary?**

**Ans:-** `select * from employee where salary=(select max(salary) from employee where salary<(select max(salary) from employee));`

**44. Is SQL case-sensitive?**

**Ans:-** No, SQL is not case sensitive.

**45. What is difference between SQL and MySQL?**

**Ans:-** SQL is the database language whereas MySQL is database management system.

**46. How to select unique records from a table?**

**Ans:-** By using distinct keyword you can select unique records from a table.

**E.g.**

`select distinct empname from employee;`

**48. What is ACID?**

**Ans:-**

**A--->** Atomicity

**C-->** Consistency

**I--->** Isolation

**D---->** Durability

**49. What is SQLite database?**

**Ans:-** SQLite is a RDBMS inbuilt in android.

**50. What is schema?**

**Ans:- Schema is data definition of database object.**