SQL Worksheet 7

1. The primary key is selected from the
   B. Candidate keys

2. Which is/are correct statements about primary key of a table?

B. Primary keys cannot contain NULL values…

C. A table can have only one primary key with single or multiple fields….

3. Which SQL command is used to insert a row in a table?

   C. Insert

4. Which one of the following sorts rows in SQL?

   C. ORDERBY

5. The SQL statement that queries or reads data from a table is

   C. SELECT

6. Which normal form is considered adequate for relational database design?

   C. 3NF

7. SQL can be used to

   C. All of the above can be done by SQL

8. SQL query and modification commands make up

   A. DDL

9. The result of a SQL SELECT statement is a(n).

   B. Table

10. Second normal form should meet all the rules for

B. 2 NF

11. What are joins in SQL?

A SQL Join statement combines data or rows from two or more tables based on a common field between them.

12. What are the different types of joins in SQL?

- (INNER) JOIN: Returns records that have matching values in both tables
- LEFT (OUTER) JOIN: Returns all records from the left table, and the matched records from the right table
- RIGHT (OUTER) JOIN: Returns all records from the right table, and the matched records from the left table
- FULL (OUTER) JOIN: Returns all records when there is a match in either left or right table

13. What is SQL Server?

SQL Server is a relational database management system, or RDBMS, developed and marketed by Microsoft.

Similar to other RDBMS software, SQL Server is built on top of SQL, a standard programming language for interacting with relational databases. SQL Server is tied to Transact-SQL, or T-SQL, the Microsoft's implementation of SQL that adds a set of proprietary programming constructs.

SQL Server works exclusively on the Windows environment for more than 20 years. In 2016, Microsoft made it available on Linux. SQL Server 2017 became generally available in October 2016 that ran on both Windows and Linux.

14. What is primary key in SQL?

A primary key is a field in a table which uniquely identifies each row/record in a database table. Primary keys must contain unique values. A primary key column cannot have NULL values.

A table can have only one primary key, which may consist of single or multiple fields. When multiple fields are used as a primary key, they are called a composite key.

If a table has a primary key defined on any field(s), then you cannot have two records having the same value of that field(s)

15. What is ETL in SQL?

ETL, which stands for "extract, transform, load," are the three processes that, in combination, move data from one database, multiple databases, or other sources to a unified repository—typically a data warehouse. It enables data analysis to provide actionable business information, effectively preparing data for analysis and business intelligence processes.