

WORKSHEET 7 SQL

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11. A SQL Join statement is used to combine data or rows from two or more tables based on a common field between them.
12. Types of joins in SQL are as follows:
 - INEER JOIN : The INNER JOIN keyword selects all rows from both the tables as long as the condition satisfies.
 - LEFT JOIN: This join returns all the rows of the table on the left side of the join and matching rows for the table on the right side of join. The rows for which there is no matching row on right side, the result-set will contain null
 - RIGHT JOIN : RIGHT JOIN is similar to LEFT JOIN. This join returns all the rows of the table on the right side of the join and matching rows for the table on the left side of join. The rows for which there is no matching row on left side, the result-set will contain null
 - FULL JOIN : FULL JOIN creates the result-set by combining result of both LEFT JOIN and RIGHT JOIN. The result-set will contain all the rows from both the tables. The rows for which there is no matching, the result-set will contain NULL
13.
 - SQL SERVER is a relational database management system developed by Microsoft. It is primarily designed and developed to compete with MySQL and Oracle database.
 - SQL Server supports ANSI SQL, which is the standard SQL language. However, SQL Server comes with its own implementation of the SQL language, T-SQL.

14.

The PRIMARY KEY constraint uniquely identifies each record in a table. Primary keys must contain UNIQUE values, and cannot contain NULL values.

A table can have only ONE primary key; and in the table, this primary key can consist of single or multiple columns (fields).

SYNTAX TO CREATE A PRIMARY KEY:

```
CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    PRIMARY KEY (ID)  
);
```

15.

The SQL Server ETL that is the Extraction, Transformation, and Loading process is especially useful when there is no consistency in the data coming from the source systems. Some of the tools provided by SQL Server for ETL are:

Pentaho

Striim

Oracle GoldenGate

Quick replicate.