Structure Query Language

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KNOWLEDGE
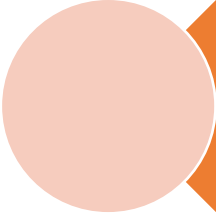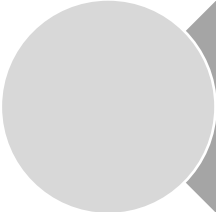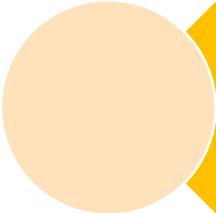INTEGRITY
SERVICE

Learning Objectives

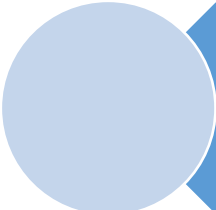- Understand the meaning of SQL

- Examine SQL Query

- Understand the features of SQL

- Understand the application of SQL

- Perform basic queries in SQL

What is SQL?

Structure Query Language

- This is a standard programming language used for operating relational databases and to carry every operation such as inserting, manipulating, updating and retrieving data from relational databases.

Features of SQL

It allows access to any data within the relational database

It is very fast in retrieving large amounts of data very efficiently

It is versatile as it works with database systems from Oracle, IBM, Microsoft etc.

It helps in managing databases without knowing lot of coding

Applications of SQL

It is used to create a database, define its structure, implement it and let's you perform may functions

It is used for maintaining an already existing database as it is a powerful language for entering data, modifying data and extracting data in a database

It is extensively used as a clint/server language to connect the front-end with the back-end for supporting the client/server architecture

When deployed as Data Control Language it helps in protecting the database from unauthorized access.

Basic Queries in SQL

Basic Queries in SQL

Data Definition Language (DDL)

- Create
- Drop
- Truncate
- Alter

Basic Queries in SQL

Data Manipulation Language (DDL)

- Insert Into
- Update
- Delete
- Select

Basic Queries in SQL

Transaction Control Language (DDL)

- Commit
- Rollback
- Savepoint
- Set Transaction

Basic Queries in SQL

Data Control Language (DDL)

- Grant
- Revoke