

Module 1: SQL & Relational Database

Lesson 1: Introduction & Overview

- SQL
- Data
- Database
- A relational Database
- List five SQL Commands

What is SQL?

- A language used for relational database
- Query Data

S Q L referred as “sequel” and is short for its original “Structured English Query Language”

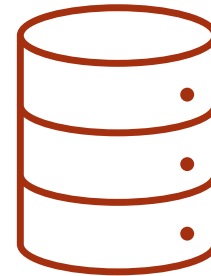
What is Data?

- **facts** - words, numbers or even pictures.
- **Bank stores**
 - Your name
 - Address
 - Phone number
 - Account numbers.
- **Safe and secure** Data storage



What is Database?

- A repository of Data
- Provides functionality for adding, modifying & Querying that data
- Different kind of database store data in different forms
- Data stored in tabular form is a relational database



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What is RDBMS?

- **RDBMS** – Relational Database Management system
- A **set** of software tools that controls the data
 - Access, organization & Storage
- Examples – MS SQL Server, Oracle, DB2, MySQL

Popular RDBMS softwares



MySQL

GNU General Public License



PostgreSQL

PostgreSQL Licence



Oracle Database

Proprietary software



SQLite



Microsoft SQL Server

Proprietary software



IBM Db2

Proprietary software



Basic SQL Commands

- Create Tables
- Insert
- Select
- Update
- Delete