Logo, company name

Description automatically generated

Mekdes Tolla

Database

Lab Guide

**Short Answer**

1. what is Data?

Facts about something is called data.

1. what is Information?

Information is processed a data about someone or something

1. what is Database (DB)?

A container that holds a collection of data that is organized and stored electronically on a server.

4. What is the Relation Database Management System (RDBMS)?

RDBMS is a software used to store and manage data in a relational database.

5. Define the importance of Relation Database Management System (RDBMS)?

Software that maintains the integrity, accuracy, and reduces redundancy to make it easy to access and data security.

6. As we all know that there are Two types of Databases. Relational Database (SQL) AND Non-Relational DB (NO sql). what is the difference between them?

In relational database the data is stored in rows and columns in a table whereas in a non-relational database the data is stored in text format or in a document format.

7. List examples of Relation Database Management System (RDBMS)?

MSSQL Server

MySQL

Oracle

Postern

8. List examples of Non-Relational DB(NoSQL)?

MongoDB

Cassandra

9. Define and Describe Structured Query Language (SQL)?

It’s a programing language that is used to manage relational database and manipulate the data.

10. List and Describe each of the different subsets of SQL (Mean DDL, DML, DCL, TCL)?

DDL: (Data Definition Language) Allow us to create, as well as alter and delete tables.

DML: (Data Manipulation Language) Allow us to change the data inside a table and to perform CURD Operations.

DCL: (Data Control Language) it helps us to keep the consistency of the data and control the security and concurrent access to our data using.

TCL: (Transaction Control Language) used to manage transaction in a database by managing changes made to the data in a table using DML statments.

11. what is table in Database (DB)? A Table is a database object we used to store all our data.

12. what is column and Row(tuples) in table?

Columns are used to define the data in a table and Rows populate data into the table.

**To Be Continued…**