Micro-Project Report

Institute Code: 0078

Academic Year: 2022-23   Program: Computer Technology

Course: Data Base Management System (DMS)   Course Code: 22319   Scheme: I

Semester: III   Class: SYCM-I   Date of Report: 07 / 12 / 2022

Title of Micro-Project: Data Definition Language(DDL) Commands in SQL.

1.0 Problem Definition: Prepare a chart on DDL commands.

Data Definition Language (DDL) is a subset of SQL and a part of DBMS (Database Management System). These commands are used to Create or Modify the tables in SQL.

DDL consist of Commands like:

- CREATE
- ALTER
- TRUNCATE
- DROP
- RENAME
- DESCRIBE

2.0 Rationale:

Each and every organization like shopping mall, hospital, banking, institutes, industry needs to share huge amount of data in effective manner. This course aims to develop skills in students to create, store, modify, manage and extract information from a database. Database system can be used as a backend for developing database applications.

3.0 Aim /Benefits of Micro-Project:

The Aim / Objectives of this project are:

1. To learn about various DDL Commands.
2. To make a Chart on use of DDL Command and types of DDL Commands.
3. To implement DDL commands to manage the Database.

4.0 Course Outcomes Achieved (COs):

- Create and Manage Database using SQL command.
- Apply Database Management Concepts using SQL.

5.0 Literature Review:

A database-management system (DBMS) is a collection of interrelated data and a set of programs to access those data.The primary goal of a DBMS is to provide a way to store and retrieve database information that is both convenient and efficient.

Database systems are designed to manage large bodies of information.Management of data involves both defining structures for storage of information and providing mechanisms for the manipulation of information.In addition, the database system must ensure the safety of the information stored, despite system crashes or attempts at unauthorized access.

SQL is a database language for querying and modifying relational databases

It was developed by IBM researcher in mid 1970 and standardized by ANSI in 1986

According to Functionality there are three basic categories of SQL Statements

1. SQL DDL- SQL Data Definition Language- used for main Schema Definition
2. SQL DML- SQL Data Manipulation Language- used for query and modify table data.
3. SQL DCL&TCL-SQL Data Control Language- used for Controlling operations also provide security on Database.

•Data Definition Language (DDL):
Specification notation for defining the database schema
DDL compiler generates a set of tables stored in a data dictionary
Data dictionary contains metadata (data about data)
Data storage and definition language – special type of DDL in which the storage structure and access methods used by the database system are specified
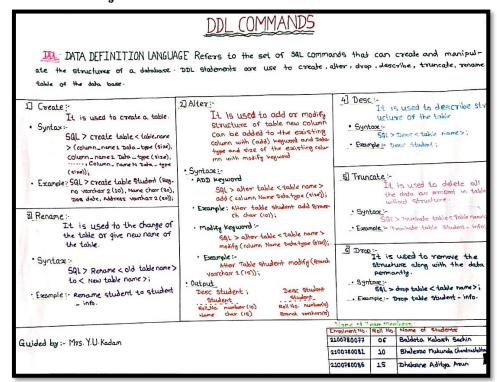Ex. Create, Alter, Drop, Truncate, Rename,DESC.

6.0 Actual Methodology followed:

- ➢ Collected the information of DDL commands and types of DDL commands.
- ➢ Study the concept of SQL and DDL commands.
- ➢ Finalized the information and structure of chart on DDL Commands.
- ➢ Created the Chart.

7.0 Actual Resources used:

S. No.	Name of Resource/material	Specifications	Qty	Remarks
1	Personal Computer	AMD Ryzen 9 5900X @ 3.70 GHz, RAM: 16GB, SSD: 1 TB	01	For project work
2	Operating System	Windows 10 Pro x64 bit	01	For making Proposal & Report
3	Chart paper	Size: A1 Colour: White	01	To present our Project
4	Reference book	Database Management System By: MSBTE	01	For studing DDL Command concepts
5	Websites referred	www.geeksforgeeks.org www.educba.com	02	For referring sample Syntax & Example

8.0 Outputs of the Micro-Project:

9.0 Skill Developed / Learning outcome of this Micro-Project:

Technical Skills:

1. Understand and execute the DBMS concepts.

2. Learn the concepts of DDL Commands.

3. Prepare presentation on it.

Soft Skills:

1. Leadership and decision making.

2. Working in team.

3. Time management.

4. Presentation and writing skills

10.0 Applications of Micro Project:

      1. Study the concept of SQL and DDL commands.

      2. Create and Manage Database using SQL command.

      3. Follow Ethical practice.

11.0 Name of Group Members:

Enrolment No.	Seat No.	Roll No.	Name of Students	Signature
2100780077	323219	06	Baldota Kalash Sachin	
2100780081	323223	10	Bhalerao Mukunda Chandrashekhar	
2100780086	323228	15	Dhakane Aditya Arun	

Date:07/12/2022   Evaluated by: Dated Signature of Guide: _____

                                Name of Guide: Ms. Y. U. Kadam