20MCA134 ADVANCED DBMS LAB

LAB CYCLE 1

Experiment No: 1

Familiarization of DDL Commands

AIM:Data Definition Language (DDL) - These SQL commands are used for creating, modifying,

and dropping the structure of database objects. The commands are CREATE, ALTER,

DROP, RENAME, and TRUNCATE.

A. Consider the database for a college. Write SQL commands to implement the

following:

1. Create a database

->CEATE DATABASE college;

2. Select the current database

->USE college;

3. Create the following tables:

a) Student (roll\_no integer, name varchar, dob date, address text,

phone\_no varchar, blood\_grp varchar)

-> CREATE TABLE student( rollnum int(10),name varchar(250),dob date,address varchar(250),phonenum varchar(50),bloodgroop varchar(10));

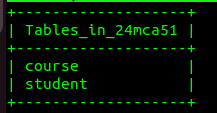
b) Course (Course\_id integer, Course\_name varchar, course\_duration

integer)

->CREATE TABLE course( courseid int(10),coursename varchar(250),courseduration int(250));

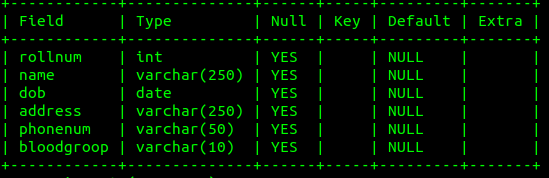
4. List all tables in the current database.

->show tables;



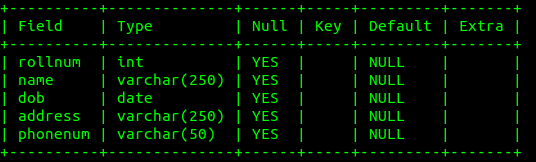
5. Display the structure of the Student table.

->desc student;



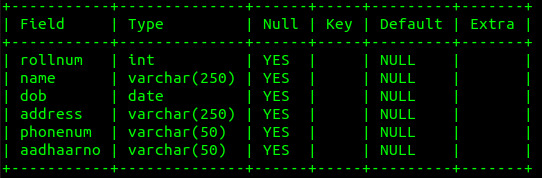
6. Drop the column blood\_grp from Student table.

->ALTER TABLE student DROP bloodgroop;



7. Add a new column Adar\_no with domain number to the table Student.

->ALTER TABLE student ADD aadhaarno varchar(50);



8 . Change the datatype of phone\_no from varchar to int

->ALTER TABLE student MODIFY phonenum int(50);

9. Drop the tables.

->DROP TABLE student;

->DROP TABLE course;

10. Delete the database.

->DROP DATABASE 24mca51;

B. Consider the database for an organization. Write SQL commands to implement the

following:

1. Create a database

->CREATE DATABASE 24mca51;

2. Select the current database

USE DATABASE 24mca51;

3. Create the following tables:

a) Employee (emp\_no varchar, emp\_name varchar, dob date, address

text, mobile\_no integer, dept\_no varchar, salary integer)

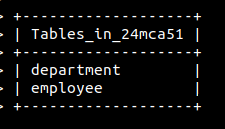
-> CREATE TABLE employee( employeenum int(10),employeename varchar(250),dob date,address varchar(250),mobilenum varchar(50),deptno varchar(10),\salary int(250));

b) Department (dept\_no varchar, dept\_name varchar, location varchar)

-> CREATE TABLE department( deptnum int(10),deptname varchar(250),location varchar(500));

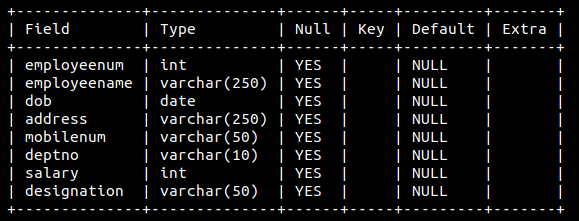
4. List all tables in the current database.

-> show tables;

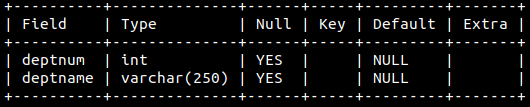


5. Display the structure of the Employee table and Department table.

-> DESC employee;



-> DESC department;



6. Add a new column ‘Designation’ to the table Employee.

-> ALTER TABLE employee ADD designation varchar(50);

7. Drop the column ‘location’ from Department table.

-> ALTER TABLE department DROP location;

Experiment No: 2

Familiarization of SQL Constraints.

1. Create new table Persons with attributes PersonID (integer, PRIMARY KEY),

Name (varchar , NOT NULL), Aadhar (Number, NOT NULL, UNIQUE), Age

(integer , CHECK>18).

2. CREATE TABLE Orders with attributes OrderID (PRIMARY KEY),

OrderNumber(NOT NULL) and PersonID( set FOREIGN KEY on attribute

PersonID referencing the column PersonId of Person table)

3. Display the structure of Persons tables.

4. Display the structure of Orders tables.

5. Add emp\_no as the primary key of the table Employee.

6. Add dept\_no as the primary key of the table Department.

7. Add dept\_no in Employee table as the foreign key reference to the table Department

with on delete cascade.

8. Drop the primary key of the table Orders.