TABLE CREATION

Short Answer Type Questions

Q.1 **Using SQL statements in MySQL, create the tables identified bellow in the following order.**
Database Name: Univ.
Create database if needed. (Underlined Columns depict primary key)

Campus   (<u>CampusID</u>, CampusName, Street, City, State, Pin, Phone, CampusDiscount)

Position   (<u>PositionID</u>, Position, YearlyMembershipFee)

Members   (MemberID, Lastname, FirstName, CampusAddress, CampusPhone, CampusID, PositionID, ContractDuration)

Foreign Keys   CampusID → Campus(CampusID)

PositionID →Position(PositionID)

Ans: mysql>CREATE DATABASE Univ;

mysql>USE Univ;

mysql>CREATE TABLE Campus(CampusID VARCHAR(5) PRIMARY KEY,

CampusName VARCHAR(20),

Street VARCHAR(20),

City VARCHAR(20),

State VARCHAR(15),

Pin INT(6),

Phone VARCHAR(13),

CampusDiscount INT(2));

mysql>CREATE TABLE Position (PositionID VARCHAR(4) PRIMARY KEY,

Position VARCHAR(10),

YearlyMemberShipFee INT(4));

mysql>CREATE TABLE Members (MemberID VARCHAR(5) PRIMARY KEY,

LastName VARCHAR(15),

FirstName VARCHAR(15),

CampuAddress VARCHAR(30),

CampusPhone VARCHAR(13),

CAMPUSID VARCHAR(5) REFERENCES Campus(CampusID),

PositionID VARCHAR(4) REFERENCES Position(PositionID),

ContractDuration INT(2));

Q.2 **Write SQL commands to perform the following tasks –**

(a) Create table Employee with the following structure:

Name of Column	ID	First_Name	Last_Name	User_ID	Salary
Type	Number(4)	Varchar(30)	Varchar(30)	Varchar(10)	Number(9,2)

Ensure the following specification in created table:

- ID should be declared as Primary Key
- User_ID shold be unique
- Salary Must be greater than 5000
- First_Name and Lst_Name must not remain Blank

Ans: mysql>CREATE TABLE Employee (ID NUMBER(4) PRIMARY KEY,

First_Name VARCHAR(30) NOT NULL,

Last_Name VARCHAR(30) NOT NULL,

User_ID VARCHAR(10) UNIQUE,

Salary NUMBER(9,2));

Add one new column in table Employee named 'Phone'.

Ans: mysql>ALTER TABLE Employee ADD(Phone VARCHAR(13));

(b) **Create another table Job with following specification:**

Name of Column	Type
Job_ID	Number(4)
Job_des	Varchar(30)
Alloc_on	Date
Due_on	Date
Emp_id	Number(4)

Ensure the following specification in created table:

- Job_ID should be declared as Primary Key
- Job_des, Alloc_on, Due_on cannot be left blank
- Emp_id is foreign key here that us related to ID column of earlier created table Employee.

Ans: mysql>CREATE TABLE Job (Job_ID NUMBER(4) PRIMARY KEY,

Job_des VARCHAR(30) NOT NULL,

Alloc_on DATE NOT NULL,

Due_on DATE NOT NULL,

Emp_id NUMBER(4) REFERENCES Employee(ID));

(a) Show the structure of the table employee.

Ans: mysql>DESC Employee;

(b) Show the structure of the table job.

Ans: mysql>DESC Job;

Q3.

(a) Write SQL query to create a table 'Bank_Customer' with the following structure:

Field	Type	Constraint
Acc_No	Integer	Primary Key
Cust_Name	Varchar(20)	Not Null
Cust_Add	Varchar(20)	
Cust_City	Varchar(20)	

b.

Write MYSQL command to create the table ENQUIRY including its constraints
Table : ENQUIRY

Name of column	Type	Size	Constraints
visitorID	Decimal	4	Primary key
visitorName	Varchar	20	
visitorMobile	Char	10	Not null
visitorAddress	Varchar	40	

Q4.

1. Creates a table called "Persons" that contains five columns: PersonID, LastName, FirstName, Address, and City:
2. Describe
3. Add one more column name "Email" as varchar(20)
4. Describe
5. Change the Address Column length to varchar(100)
6. Describe
7. Delete the column "Email"
8. Describe
9. Delete the Table Persons
10. Describe