Assignment_01

1. Login to MySQL and view all databases already present. You should get following result :

   ANS:- SHOW DATABASES;

2. Q.2 Write an SQL statement to create a simple table countries including columns country_id, country_name and region_id. After this display the structure of table as below :-

   ANS:- CREATE DATABASE ASSG_01;

        USE ASSG_01;

        CREATE TABLE COUNTRY

        (COUNTRY_ID INT(11), COUNTRY_NAME VARCHAR(20),

        REGION_ID INT(11));

        DESC COUNTRY;

3. Write an SQL statement to create a table named jobs including columns job_id, job_title, min_salary, max_salary and check whether the max_salary amount exceeding the upper limit 25000. Also set job_id as primary key and entering null values for job_title is not allowed.

   ANS :- CREATE TABLE JOBS

        (JOB_ID INT PRIMARY KEY, JOB_TITLE VARCHAR(20) NOT NULL,

        MIN_SALARY INT, MAX_SALARY INT);

        ALTER TABLE JOBS

        MODIFY COLUMN MAX_SALARY CHECK(MAX_SALARY <= 25000);

4. Write a SQL statement to create a table named job_histry including columns employee_id, start_date, end_date, job_id and department_id.

ANS:- CREATE TABLE JOB_HISTRY

(EMPLOYEE_ID INT, START_DATE DATE, END_DATE DATE,

JOB_ID INT, DEPARTMENT_ID INT);

5. Write an SQL statement to alter a table named countries to make sure that no duplicate data against column country_id will be allowed at the time of insertion.

ANS:- ALTER TABLE COUNTRY

MODIFY COLUMN COUNTRY_ID INT(11) UNIQUE;

6. Write an SQL statement to create a table named job2 including columns job_id, job_title, min_salary and max_salary, and make sure that, the default value for job_title is blank and min_salary is 8000 and max_salary is NULL will be entered automatically at the time of insertion if no value assigned for the specified columns.

ANS:- CREATE TABLE JOB2

(JOB_ID INT, JOB_TITLE VARCHAR(20), MIN_SALARY INT,

MAX_SALARY INT);

ALTER TABLE JOB2

MODIFY COLUMN MIN_SALARY INT DEFAULT 8000,

MODIFY COLUMN JOB_TITLE VARCHAR(20) DEFAULT '';

7. Create a Department table with following structure:

ANS:- CREATE TABLE DEPT

    (DEPARTMENT_ID DECIMAL(4,0) PRIMARY KEY DEFAULT 0,

    DEPARTMENT_NAME VARCHAR(30) NOT NULL,

    MANAGER_ID DECIMAL(6,0),

    LOCATION_ID DECIMAL(4,0));

8. Write an SQL statement to create a table employees including columns employee_id, first_name, last_name, email, phone_number hire_date, job_id, salary, commission, manager_id and department_id and make sure that, the employee_id column does not contain any duplicate value at the time of insertion and the foreign key columns combined by department_id and manager_id columns contain only those unique combination values, which combinations are exists in the departments table.

ANS:- CREATE TABLE EMP

    (EMPLOYEE_ID INT UNIQUE, FIRST_NAME VARCHAR(20),

    LAST_NAME VARCHAR(20), EMAIL VARCHAR(20),

    PHONE_NUMBER INT(10), HIRE_DATE DATE, JOB_ID INT,

    SALARY FLOAT(8,2), COMMISSION FLOAT(5,2), MANAGER_ID DECIMAL(6,0), DEPARTMENT_ID DECIMAL(4,0);

    alter table emp

    -> add foreign key(department_id, manager_id)

    -> references dept(department_id, manager_id);