Assignment 1

Q1. Login to MySQL and view all databases already present. You should get following result:

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| ddlassignment1     |
| demo               |
| dllassignment2     |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sept25             |
| sys                |
| world              |
+--------------------+
10 rows in set (0.00 sec)
```

Ans:- show databases;

Q2. 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 :

```
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| country_id   | int(11)     | YES  |     | NULL    |       |
| country_name | varchar(20) | YES  |     | NULL    |       |
| region_id    | int(11)     | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
```

Ans:- create table country(Country_id int, country_name varchar(20),region_id int);

Q3. 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 jobs1 (job_id int primary key, job_title varchar(20) not null,min_salary decimal(10,2),max_salary decimal(10,2)check (max_salary <= 25000));

Q4. 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 jobHistry (emp_id int ,start_date date,end_date date,job_id int ,dept_id int);

Q5. 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 add primary key(Country_id);

Q6. Write an SQL statement to create a table named jobs 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 jobs(id int ,title varchar(20)default ' ',minsalary double(10,2)default 8000,maxsalary double(10,2) default null);

Q7. Create a Department table with following structure

Field	Type	Null	Key	Default	Extra
DEPARTMENT_ID	decimal(4,0)	NO	PRI	0	
DEPARTMENT_NAME	varchar(30)	NO		NULL	
MANAGER_ID	decimal(6,0)	NO	PRI	0	
LOCATION_ID	decimal(4,0)	YES		NULL	

Ans:- create table department (dept_id decimal(4,0) default 0, dept_name varchar (30) not null, manager_id decimal(6,0) default 0,location_id decimal(4,0),primary key(dept_id,manager_id));

Q8. 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 employee (id INT PRIMARY KEY, fname VARCHAR(20), lname VARCHAR(20), email VARCHAR(30), phone VARCHAR(15), hire_date DATE, jobid INT, salary DECIMAL(10,2), commission DECIMAL(5,2), department_id decimal(4,2), manager_id decimal(6,2), FOREIGN KEY (department_id,manager_id) references department (dept_id,manager_id));