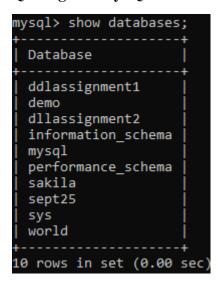
## **Assignment 1**

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



**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	ļ
DEPARTMENT_NAME	varchar(30)	NO		NULL	1
MANAGER_ID	decimal(6,0)	NO	PRI	0	
LOCATION ID	decimal(4,0)	YES	1	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), Iname 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));