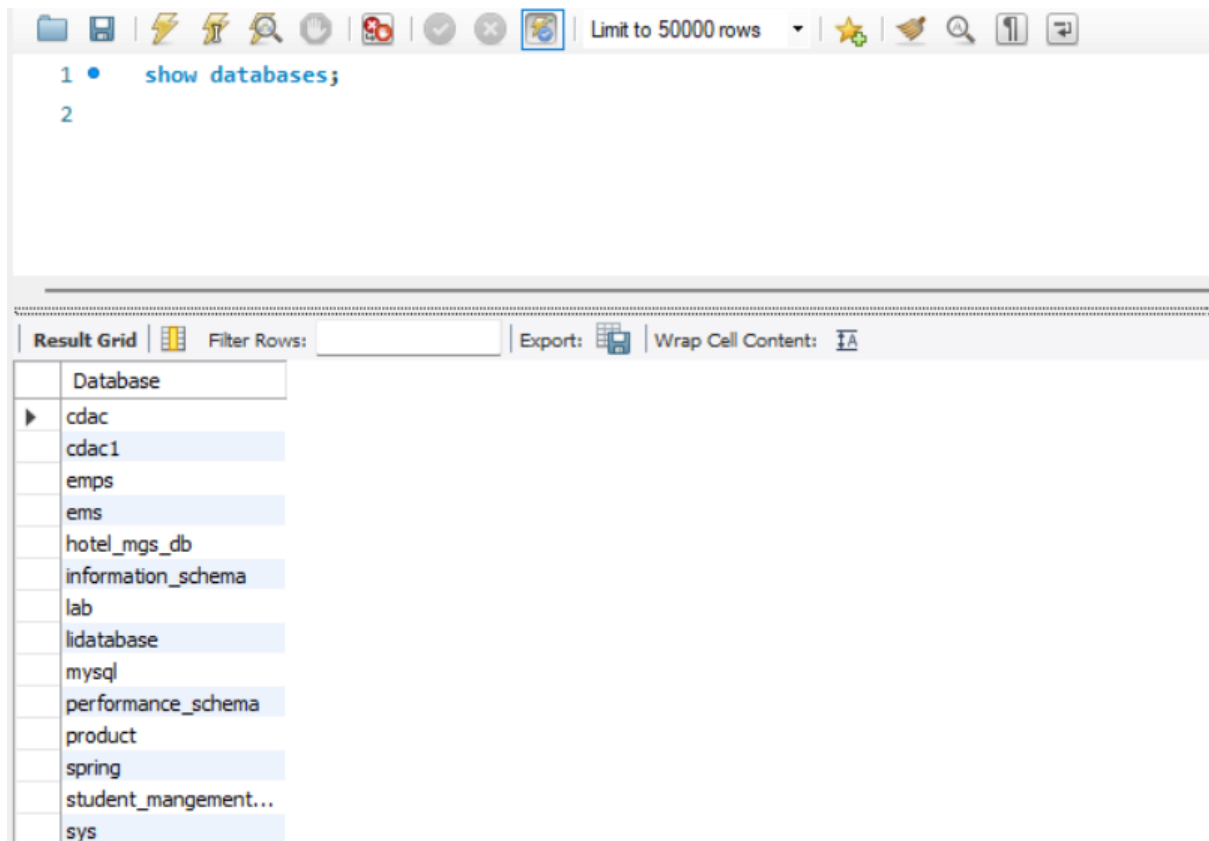


MySQL Assignment -1 (DDL)

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



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

```
2 • create database firstbit;
3 • use firstbit;
4
5 • CREATE TABLE countries(
6     country_id INT PRIMARY key,
7     country_name varchar(100),
8     region_id INT);
9
10 • desc countries;
```

Field	Type	Null	Key	Default	Extra
country_id	int	NO	PRI	NULL	
country_name	varchar(100)	YES		NULL	
region_id	int	YES		NULL	

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.

```
11
12 • CREATE TABLE jobs (
13     job_id INT PRIMARY KEY,
14     job_title VARCHAR(100) NOT NULL,
15     min_salary DECIMAL(10,2),
16     max_salary DECIMAL(10,2),
17     CHECK (max_salary <= 25000)
18 );
19 • desc jobs;
```

Field	Type	Null	Key	Default	Extra
job_id	int	NO	PRI	NULL	
job_title	varchar(100)	NO		NULL	
min_salary	decimal(10,2)	YES		NULL	
max_salary	decimal(10,2)	YES		NULL	

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

```
20 • CREATE TABLE job_history (  
21     employee_id INT,  
22     start_date DATE,  
23     end_date DATE,  
24     job_id INT,  
25     department_id INT  
26 );  
27 • desc job_history;  
28  
29  
30
```

Result Grid | Filter Rows: | Export:

	Field	Type	Null	Key	Default	Extra
▶	employee_id	int	YES		NULL	
	start_date	date	YES		NULL	
	end_date	date	YES		NULL	
	job_id	int	YES		NULL	
	department_id	int	YES		NULL	

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.

```
29 • ALTER TABLE countries  
30     ADD CONSTRAINT unique_country_id UNIQUE (country_id);
```

6. 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.

```
33 • CREATE TABLE job_s (  
34     job_id INT PRIMARY KEY,  
35     job_title VARCHAR(100) DEFAULT '',  
36     min_salary DECIMAL(10,2) DEFAULT 8000,  
37     max_salary DECIMAL(10,2) DEFAULT NULL  
38 );  
39 • desc job_s;  
40  
41
```

Result Grid						
Filter Rows:		Export:		Wrap C		
Field	Type	Null	Key	Default	Extra	
job_id	int	NO	PRI	NULL		
job_title	varchar(100)	YES				
min_salary	decimal(10,2)	YES		8000.00		
max_salary	decimal(10,2)	YES		NULL		

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.

```
• CREATE TABLE Department (  
    DEPARTMENT_ID    DECIMAL(4,0) NOT NULL DEFAULT 0,  
    DEPARTMENT_NAME  VARCHAR(30)  NOT NULL,  
    MANAGER_ID       DECIMAL(6,0) NOT NULL DEFAULT 0,  
    LOCATION_ID      DECIMAL(4,0) DEFAULT NULL,  
    PRIMARY KEY (DEPARTMENT_ID, MANAGER_ID)  
);  
  
• CREATE TABLE employees (  
    employee_id      INT PRIMARY KEY,  
    first_name       VARCHAR(50),  
    last_name        VARCHAR(50),  
    email            VARCHAR(100),  
    phone_number     VARCHAR(20),  
    hire_date        DATE,  
    job_id           VARCHAR(10),  
    salary            DECIMAL(10, 2),  
    commission       DECIMAL(5, 2),  
    manager_id       DECIMAL(6, 0),  
    department_id    DECIMAL(4, 0),  
    FOREIGN KEY (department_id, manager_id)  
        REFERENCES department(department_id, manager_id)  
);
```