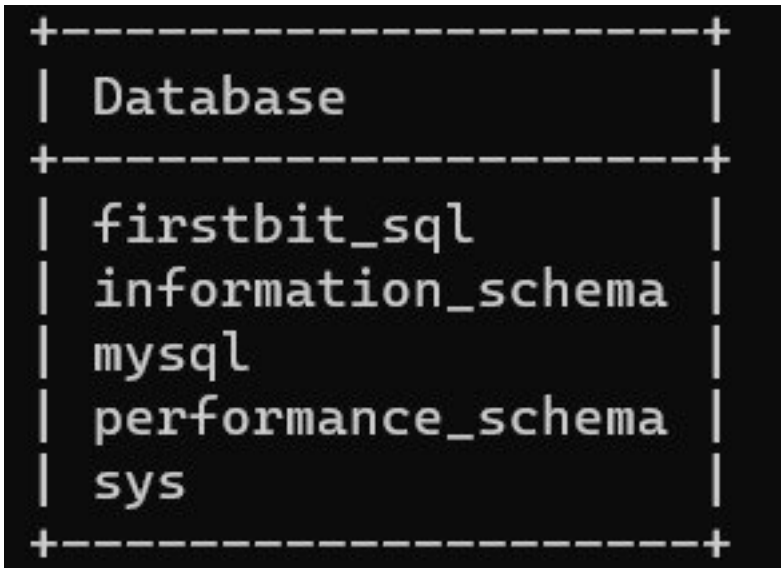
MySQL Assignment -1 (DDL)

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



```
+--------------------+
| Database           |
+--------------------+
| firstbit_sql       |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
```

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 :

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

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

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.

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.

7. 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	

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.