# LAB CYCLE - MySQL

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1. Create a database 'Company' with the following tables:
Create database company;
Create table Department(Deptid int , Deptname varchar (50) NOT NULL,UNIQUE(Deptname),PRIMARY KEY (Deptid));
Create table Employees(Emptid int PRIMARY KEY,Ename varchar(50) NOT NULL UNIQUE, Deptid int ,FOREIGN KEY (Deptid) REFERENCES Department(Deptid));
2. Add an attribute 'emailid' of data type 'varchar' with size 40, salary of data type integer and remarks of data type varchar with size 45 to the Employee Table.
ALTER table Employees ADD( emailid varchar(40), salary int , remarks varchar(45));
3. Add unique constraint to the attribute 'emailid'.

Alter table employees add unique(emailid);

# 4. Add an attribute salary of data type integer with a constraint that salary never falls below 5000.

ALTER table Employees MODIFY salary int CHECK (salary>=5000);

#### 5. Drop 'remarks' attribute from the table Employee.

ALTER table Employees DROP remarks;

#### 6. Describe the Department and Employee tables.

Desc department;

```
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| Deptid | int(11) | NO | PRI | NULL | |
| Deptname | varchar(50) | NO | UNI | NULL |
+------+
```

Desc employees;

#### 7. Insert at least 5 tuples to Department and Employee tables.

```
Insert into department values(101,'mca');
Insert into department values(102,'physics');
Insert into department values(103,'microbiology');
Insert into department values(201,'civil engineering');
Insert into department values(104,'computer science');
Insert into department values(105,'bcom');
Insert into employees values(1221,'amala',101,'amala11@gmail.com',20000);
Insert into employees values(1222,'aleena',102,'aleenamj@gmail.com',19000);
Insert into employees values(1331,'athulya',103,'athul@gmail.com',50000);
Insert into employees values(1231,'jeena',101,'jeena@gmail.com',13000);
Insert into employees values(1332,'jacob',105,'jacob@gmail.com',20000);
```

## 8. Retrieve the entire contents of the Department and Employee tables.

Select \* from department;

Select \* from employees;

```
+-----+
| Emptid | Ename | Deptid | emailid | salary |
+-----+
| 1221 | amala | 101 | amala11@gmail.com | 20000 |
| 1222 | aleena | 102 | aleenamj@gmail.com | 19000 |
| 1231 | jeena | 101 | jeena@gmail.com | 13000 |
| 1331 | athulya | 103 | athul@gmail.com | 50000 |
| 1332 | jacob | 105 | jacob@gmail.com | 20000 |
+-----+
```

# 9. Find out the name of the Employees in the Department with Deptid 101.

Select Ename from employees where Deptid=101;

```
+-----+
| Ename |
+-----+
| amala |
| jeena |
+-----+
```

## 10.Display the name and salary of all Employees.

Select Ename ,salary from employees ;

```
+-----+
| Ename | salary |
+-----+
```

```
| amala | 20000 |
| aleena | 19000 |
| jeena | 13000 |
| athulya | 50000 |
| jacob | 20000 |
```

11. Update the salary of the employee with employee id '1221' to Rs. 50000.

Update Employees set salary=50000 where Emptid=1221;

12. Delete the details of employee with employee id '1331'.

Delete from Employees where Emptid=1331;

13. Find the name of employees who has a salary equal to Rs.13000.

Select Ename from Employees where salary=13000;

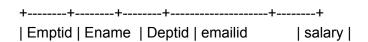


14. Delete the department with Deptid '201'.

Delete from department where deptid=201;

15. Display the details of employees in the ascending order of their salary.

Select \* from Employees ORDER BY salary asc;



	++ 101   jeena@gmail.com   13000
1222   aleena	102   aleenamj@gmail.com   19000
1332   jacob	105   jacob@gmail.com   20000
1221   amala	101   amala11@gmail.com   50000