

LAB CYCLE - MySQL

QUESTION:

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;
```

```
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Empid | int(11) | NO   | PRI | NULL    |      |
| Ename | varchar(50) | NO   | UNI | NULL    |      |
| Deptid | int(11) | YES  | MUL | NULL    |      |
| emailid | varchar(40) | YES  | UNI | NULL    |      |
| salary | int(11) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
```

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;

Deptid	Deptname
105	bcom
201	civil engineering

	104	computer science	
	101	mca	
	103	microbiology	
	102	physics	
+-----+			

Select * from employees;

+-----+				
	Empid		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;

+-----+
Ename
+-----+
jeena
+-----+

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;

+-----+	+-----+	+-----+	+-----+	+-----+
Emptid	Ename	Deptid	emailid	salary

	1231	jeena	101	jeena@gmail.com
	1222	aleena	102	aleenamj@gmail.com
	1332	jacob	105	jacob@gmail.com
	1221	amala	101	amala11@gmail.com