# ASSIGNMENT 3

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Semester : 4th

Course : B.Sc (H) Computer Science

Roll No : AD-1224

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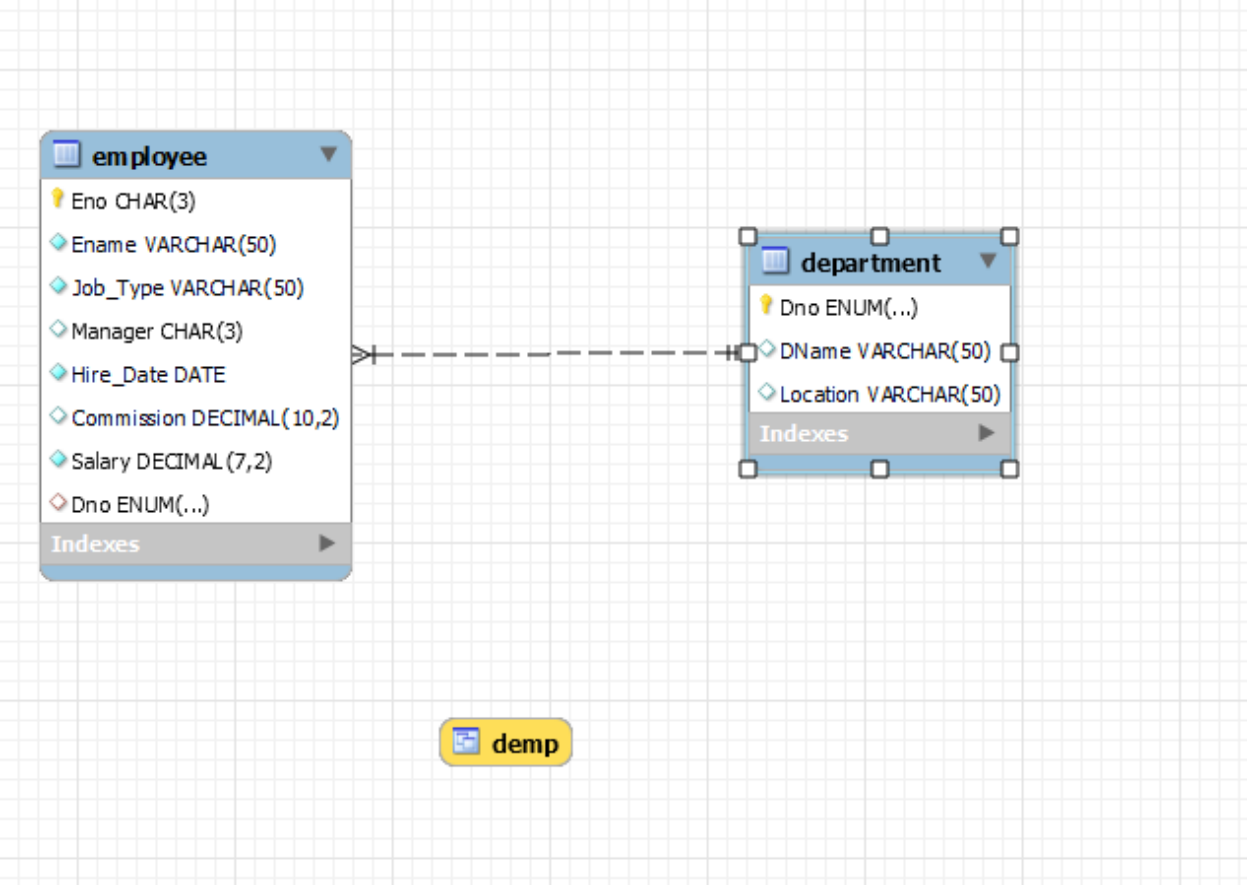

**/* DDL COMMANDS */**

```
create database EMP_DEPT;

use EMP_DEPT;


create table Department(
Dno enum('10','20','30','40','50') NOT NULL PRIMARY KEY,
DName varchar(50) DEFAULT NULL,
Location varchar(50) Default "New Delhi"
);


/*Foreign key references Employee(Eno)*/


create table Employee (
Eno char(3) NOT NULL primary key,
Ename Varchar(50) not null,
Job_Type varchar(50) not null,
Manager char(3) ,
Hire_Date date Not Null,
Commission Decimal(10,2),
Salary Decimal(7,2) Not Null,
Check (5000>Salary and Salary>1000),
Dno enum('10','20','30','40','50'),
foreign key (Dno) references Department(Dno)
);
```

# QUERIES

/* Question 1

Query to display Employee Name, Job, Hire Date, Employee Number for each employee with the Employee Number appearing first */

**Select Eno, Ename,Job_Type,Hire_Date from employee;**

```
+-----+--------+-----------+------------+
| Eno | Ename  | Job_Type  | Hire_Date  |
+-----+--------+-----------+------------+
| 736 | Ward   | Clerk     | 1980-12-17 |
| 749 | Allan  | Sales_Man | 1981-02-20 |
| 752 | Ward   | Sales_Man | 1981-02-22 |
| 756 | Ward   | Manager   | 1981-04-02 |
| 765 | Martin | Sales_Man | 1981-04-22 |
| 769 | Blake  | Manager   | 1981-05-01 |
| 778 | Clark  | Manager   | 1981-06-09 |
| 783 | King   | President | 1981-11-17 |
| 784 | Turner | Sales_Man | 1981-09-08 |
| 787 | Adams  | Clerk     | 1983-01-12 |
| 788 | Scott  | Analyst   | 1982-12-09 |
| 790 | James  | Clerk     | 1981-12-03 |
| 792 | Ford   | Analyst   | 1981-12-03 |
| 793 | Clark  | Clerk     | 1982-01-23 |
| 794 | Drek   | Clerk     | 1982-07-04 |
+-----+--------+-----------+------------+
15 rows in set (0.01 sec)
```

/* Question 2

Query to display Unique Jobs from the Employee Table. */

**select distinct job_type from employee;**

```
+-----------+
| job_type  |
+-----------+
| Clerk     |
| Sales_Man |
| Manager   |
| President |
| Analyst   |
+-----------+
5 rows in set (0.00 sec)
```

/* Question 3

Query to display the Employee Name concatenated by a Job separated by a comma.

*/

**select concat_ws(",",ename,job_type) from employee;**

```
+-----------------------------+
| concat_ws(",",ename,job_type) |
+-----------------------------+
| Ward,Clerk                  |
| Allan,Sales_Man             |
| Ward,Sales_Man              |
| Ward,Manager                |
| Martin,Sales_Man            |
| Blake,Manager               |
| Clark,Manager               |
| King,President              |
| Turner,Sales_Man            |
| Adams,Clerk                 |
| Scott,Analyst               |
| James,Clerk                 |
| Ford,Analyst                |
| Clark,Clerk                 |
| Drek,Clerk                  |
+-----------------------------+
15 rows in set (0.00 sec)
```

/* Question 4

Query to display all the data from the Employee Table. Separate each Column by a comma and name

the said column as THE_OUTPUT.

*/

**select concat_ws(" , ", eno, ename,job_type , manager, hire_date, commission,salary,dno) THE_OUTPUT  from employee;**

```
+-----------------------------------------------------------------------+
| THE_OUTPUT                                                            |
+-----------------------------------------------------------------------+
| 736 , Ward , Clerk , 790 , 1980-12-17 , 0.00 , 1200.00 , 20          |
| 749 , Allan , Sales_Man , 769 , 1981-02-20 , 300.00 , 2000.00 , 30   |
| 752 , Ward , Sales_Man , 769 , 1981-02-22 , 500.00 , 1300.00 , 30    |
| 756 , Ward , Manager , 783 , 1981-04-02 , 0.00 , 2300.00 , 20        |
| 765 , Martin , Sales_Man , 198 , 1981-04-22 , 1400.00 , 1250.00 , 30 |
| 769 , Blake , Manager , 783 , 1981-05-01 , 0.00 , 2870.00 , 30       |
| 778 , Clark , Manager , 783 , 1981-06-09 , 0.00 , 2900.00 , 10       |
| 783 , King , President , 1981-11-17 , 0.00 , 2950.00 , 10            |
| 784 , Turner , Sales_Man , 769 , 1981-09-08 , 0.00 , 1450.00 , 30    |
| 787 , Adams , Clerk , 778 , 1983-01-12 , 0.00 , 1150.00 , 20         |
| 788 , Scott , Analyst , 756 , 1982-12-09 , 0.00 , 2850.00 , 40       |
| 790 , James , Clerk , 769 , 1981-12-03 , 0.00 , 1100.00 , 30         |
| 792 , Ford , Analyst , 756 , 1981-12-03 , 0.00 , 2600.00 , 20        |
| 793 , Clark , Clerk , 788 , 1982-01-23 , 0.00 , 1300.00 , 40         |
| 794 , Drek , Clerk , 778 , 1982-07-04 , 1500.00 , 1150.00 , 20       |
+-----------------------------------------------------------------------+
15 rows in set (0.00 sec)
```

/* Question 5

Query to display the Employee Name & Salary of all the employees earning more than $2850.

*/

**select ename,salary from employee where salary>2850;**

```
+-------+---------+
| ename | salary  |
+-------+---------+
| Blake | 2870.00 |
| Clark | 2900.00 |
| King  | 2950.00 |
+-------+---------+
3 rows in set (0.00 sec)
```

/*Question 6

Query to display Employee Name & Department Number for the Employee No= 790

*/

```
mysql>   select ename,dno from employee where eno=790;
+-------+------+
| ename | dno  |
+-------+------+
| James | 30   |
+-------+------+
1 row in set (0.00 sec)
```

**/*Question 7**

**Query to display Employee Name & Salary for all employees whose salary is not in**

**the range of $1500 and $2850.**

***/**

```
mysql> select ename,salary from employee where salary not between 1500 and 2850;
+--------+---------+
| ename  | salary  |
+--------+---------+
| Ward   | 1200.00 |
| Ward   | 1300.00 |
| Martin | 1250.00 |
| Blake  | 2870.00 |
| Clark  | 2900.00 |
| King   | 2950.00 |
| Turner | 1450.00 |
| Adams  | 1150.00 |
| James  | 1100.00 |
| Clark  | 1300.00 |
| Drek   | 1150.00 |
+--------+---------+
11 rows in set (0.00 sec)
```

**/*Question 8**

**Query to display Employee Name, Job, and Hire Date of all the employees hired between Feb 20,**

**1981 and May 1, 1981. Order the query in ascending order of Start Date.**

***/**

```
mysql> select ename,job_type,hire_date from employee where hire_date between "1981-02-20" and "1981-05-01" order by hire_date;
+--------+-----------+------------+
| ename  | job_type  | hire_date  |
+--------+-----------+------------+
| Allan  | Sales_Man | 1981-02-20 |
| Ward   | Sales_Man | 1981-02-22 |
| Ward   | Manager   | 1981-04-02 |
| Martin | Sales_Man | 1981-04-22 |
| Blake  | Manager   | 1981-05-01 |
+--------+-----------+------------+
5 rows in set (0.00 sec)
```

**/* Question 9**

**Query to display Employee Name & Department No. of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.**

***/**

```
mysql> select ename,dno from employee where dno in ('10','30') order by ename;
+--------+------+
| ename  | dno  |
+--------+------+
| Allan  | 30   |
| Blake  | 30   |
| Clark  | 10   |
| James  | 30   |
| King   | 10   |
| Martin | 30   |
| Turner | 30   |
| Ward   | 30   |
+--------+------+
8 rows in set (0.00 sec)
```

/* Question 10

Query to display Employee Name & Salary of employees who earned more than $1500 and are in Department 10 or 30.

*/

```
mysql> select ename,salary from employee where dno in ('10','30') and salary>1500;
+-------+---------+
| ename | salary  |
+-------+---------+
| Clark | 2900.00 |
| King  | 2950.00 |
| Allan | 2000.00 |
| Blake | 2870.00 |
+-------+---------+
4 rows in set (0.00 sec)
```