**Assignment No:1(Group B)**

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**Title: Design any database with at least 3 entities and relationship between them.**

**Apply DCL and DDL commands. Draw suitable ER/EER diagram for the system.**

**Batch No: T1 Roll No: 06**

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mysql>create database priyanka;

Query OK, 1 row affected (0.00 sec)

mysql> use tejas;

mysql> create table EMP(EMP\_ID integer(10),

-> ENAME char(15),

-> JOB char(15),

-> MGR integer(15),

-> HIREDATE date,

-> SAL integer(10),

-> COMM integer(10),

-> DEPT\_NO integer(15));

Query OK, 0 rows affected (0.18 sec)

mysql> desc EMP;

+----------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+-------+

| EMP\_ID | int(10) | YES | | NULL | |

| ENAME | char(15) | YES | | NULL | |

| JOB | char(15) | YES | | NULL | |

| MGR | int(15) | YES | | NULL | |

| HIREDATE | date | YES | | NULL | |

| SAL | int(10) | YES | | NULL | |

| COMM | int(10) | YES | | NULL | |

| DEPT\_NO | int(15) | YES | | NULL | |

+----------+----------+------+-----+---------+-------+

8 rows in set (0.01 sec)

mysql> select \* from EMP;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7369 | Smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

| 7499 | Allen | Saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | Ward | Saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | Martin | Saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | Scott | Analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7839 | King | President | NULL | 1981-11-17 | 5250 | NULL | 10 |

| 7844 | Turner | saleman | 7698 | 1981-09-08 | 1500 | 0 | 10 |

| 7876 | Adams | clerk | 7876 | 1981-05-23 | 1100 | 0 | 10 |

| 7900 | James | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql> alter table EMP add ph\_no integer(20);

Query OK, 1 row affected (0.28 sec)

Records: 2 Duplicates: 0 Warnings:0

mysql> select \* from EMP;

+--------+--------+-----------+------+------------+------+------+---------+-------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO | ph\_no |

+--------+--------+-----------+------+------------+------+------+---------+-------+

| 7369 | Smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 | NULL |

| 7499 | Allen | Saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 | NULL |

| 7521 | Ward | Saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 | NULL |

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 | NULL |

| 7654 | Martin | Saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 | NULL |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 | NULL |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 | NULL |

| 7788 | Scott | Analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 | NULL |

| 7839 | King | President | NULL | 1981-11-17 | 5250 | NULL | 10 | NULL |

| 7844 | Turner | saleman | 7698 | 1981-09-08 | 1500 | 0 | 10 | NULL |

| 7876 | Adams | clerk | 7876 | 1981-05-23 | 1100 | 0 | 10 | NULL |

| 7900 | James | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 | NULL |

+--------+--------+-----------+------+------------+------+------+---------+-------+

12 rows in set (0.00 sec)

mysql> alter table EMP drop ph\_no;

Query OK, 1 row affected (0.19 sec)

Records: 2 Duplicates: 0 Warnings:0

mysql> select \* from EMP;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7369 | Smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

| 7499 | Allen | Saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | Ward | Saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | Martin | Saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | Scott | Analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7839 | King | President | NULL | 1981-11-17 | 5250 | NULL | 10 |

| 7844 | Turner | saleman | 7698 | 1981-09-08 | 1500 | 0 | 10 |

| 7876 | Adams | clerk | 7876 | 1981-05-23 | 1100 | 0 | 10 |

| 7900 | James | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql>drop table EMP;

Query OK, 1 row affected (0.05 sec)

mysql> grant select,update ON EMP to smith;

Query OK, 1 row affected (0.03 sec)

mysql> revoke select,update ON EMP to smith;

Query OK, 1 row affected (0.01 sec)

mysql>