Assignment Database design:

mysql> create database EmployeeManagementSystem;

Query OK, 1 row affected (0.00 sec)

mysql> use EmployeeManagementSystem;

Database changed

mysql> create table employee(emp\_id int(3) primary key,Firstname varchar(20),lastname varchar(20),gender varchar(6),dateOBirth DATE,dateofjoining DATE,emailid varchar(89));

Query OK, 0 rows affected (0.38 sec)

mysql> create table department(dep\_id int(3) primary key,Dep\_Name varchar(30),location varchar(30));

Query OK, 0 rows affected (0.29 sec)

mysql> create table role(roleId int(3) primary key,rolename varchar(40));

Query OK, 0 rows affected (0.26 sec)

mysql> create table stream(stream\_id int(3) primary key,stream\_name varchar(30));

Query OK, 0 rows affected (0.26 sec)

mysql> create table Employee\_dept\_strm(EDS\_id int(3) not null,emp\_id int (3) not null,dep\_id int(3) not null,Stm\_id int(3),primary key(EDS\_id),foreign key(Dep\_id) references department(dep\_id),foreign key(Stm\_id) references stream(stream\_id));

Query OK, 0 rows affected (1.12 sec)

mysql> create table Empl\_role(ER\_id int(3) not null,emp\_id int(3) not null,roleId int(3) not null,HeadingDeptId int(3),HeadingStreamId int(3),primary key(ER\_id),foreign key(emp\_id) references employee(emp\_id),foreign key

(roleId) references role(roleId));

Query OK, 0 rows affected (0.97 sec)

mysql> create table role\_stream(rs\_id int(3) not null,stream\_id int(3) not null,

roleid int(3) not null, primary key(rs\_id),foreign key(roleid) references role(roleId),

foreign key(stream\_id) references stream(stream\_id));

Query OK, 0 rows affected (0.38 sec)

mysql> show tables

-> ;

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

| Tables\_in\_employeemanagementsystem |

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

| department |

| empl\_role |

| employee |

| employee\_dept\_strm |

| role |

| role\_stream |

| stream |

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

7 rows in set (0.00 sec)

mysql> insert into department values(1,'IT','pune');

Query OK, 1 row affected (0.09 sec)

mysql> insert into department values(2,'HR','pune');

Query OK, 1 row affected (0.04 sec)

mysql> insert into department values(3,'Admin','pune');

Query OK, 1 row affected (0.14 sec)

mysql> insert into department values(4,'sales','melbourne');

Query OK, 1 row affected (0.04 sec)

mysql> insert into employee values(107,'vikrant','labde','male','1980-8-17','2010-02-25','vk@.com');

Query OK, 1 row affected (0.06 sec)

mysql> insert into employee values(108,'nikhil','ambekar','male','1980-9-27','2010-02-25','na@cuelogic.com');

Query OK, 1 row affected (0.11 sec)

mysql> insert into employee values(109,'vikas','mane','male','1989-9-28','2014-02-25','vkmane@cuelogic.com');

Query OK, 1 row affected (0.07 sec)

mysql> insert into employee values(110,'raghvendra','j','male','1980-5-27','2010-02-25','rj@cuelogic.com');

Query OK, 1 row affected (0.07 sec)

mysql> insert into employee values(111,'sachin','dane','male','1995-5-27','2017-01-16','sachin@cuelogic.com');

Query OK, 1 row affected (0.05 sec)

mysql> insert into employee values(112,'achyut','mophre','male','1986-5-27','2015-01-16','am@cuelogic.com');

Query OK, 1 row affected (0.07 sec)

mysql> select \* from department;

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

| dep\_id | Dep\_Name | location |

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

| 1 | IT | pune |

| 2 | HR | pune |

| 3 | Admin | pune |

| 4 | sales | melbourne |

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

4 rows in set (0.00 sec)

mysql> select \* from role;

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

| roleId | rolename |

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

| 1 | SE |

| 2 | Sr\_SE |

| 3 | Jr\_SE |

| 4 | tech\_lead |

| 5 | principal\_SE |

| 6 | Sr\_principal\_SE |

| 7 | projectManager |

| 8 | DeliveryHead |

| 9 | HR\_EX |

| 10 | Sr\_HR\_EX |

| 11 | HR\_Manager |

| 12 | CEO |

| 13 | CTO |

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

13 rows in set (0.00 sec)

mysql> select \* from empl\_role;

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

| ER\_id | emp\_id | roleId | HeadingDeptId | HeadingStreamId |

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

| 1 | 101 | 3 | NULL | NULL |

| 2 | 102 | 3 | NULL | NULL |

| 3 | 103 | 7 | NULL | NULL |

| 4 | 104 | 4 | NULL | NULL |

| 5 | 105 | 9 | NULL | NULL |

| 6 | 106 | 11 | 2 | NULL |

| 7 | 107 | 13 | 1 | 1 |

| 8 | 108 | 12 | 1 | 2 |

| 9 | 108 | 12 | 2 | NULL |

| 10 | 108 | 12 | 3 | NULL |

| 11 | 109 | 5 | NULL | NULL |

| 12 | 110 | 15 | 3 | NULL |

| 13 | 111 | 3 | NULL | NULL |

| 14 | 112 | 6 | NULL | NULL |

| 15 | 113 | 5 | NULL | NULL |

| 16 | 114 | 14 | 4 | NULL |

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

16 rows in set (0.00 sec)

mysql> select \* from employee;

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

| emp\_id | Firstname | lastname | gender | dateOBirth | dateofjoining | emailid |

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

| 101 | meenakshi | ghamande | female | 1994-07-14 | 2017-01-16 | meenakshi.ghamande@cuelogic.com |

| 102 | vidya | h | female | 1994-07-22 | 2017-01-16 | vidya@cuelogic.com |

| 103 | mrudul | joshi | female | 1985-07-22 | 2012-05-16 | mrudul@cuelogic.com |

| 104 | amit | joshi | male | 1983-01-21 | 2010-05-26 | amit@cuelogic.com |

| 105 | akshata | b | female | 1989-02-27 | 2011-04-26 | akshata@cuelogic.com |

| 106 | samprada | k | female | 1985-08-17 | 2010-02-25 | samprada@cuelogic.com |

| 107 | vikrant | labde | male | 1980-08-17 | 2010-02-25 | vk@.com |

| 108 | nikhil | ambekar | male | 1980-09-27 | 2010-02-25 | na@cuelogic.com |

| 109 | vikas | mane | male | 1989-09-28 | 2014-02-25 | vkmane@cuelogic.com |

| 110 | raghvendra | j | male | 1980-05-27 | 2010-02-25 | rj@cuelogic.com |

| 111 | sachin | dane | male | 1995-05-27 | 2017-01-16 | sachin@cuelogic.com |

| 112 | achyut | mophre | male | 1986-05-27 | 2015-01-16 | am@cuelogic.com |

| 113 | onkar | j | male | 1885-02-01 | 2013-03-04 | oj@cuelogic.com |

| 114 | neel | vartikar | male | 1882-02-01 | 2012-03-04 | nv@cuelogic.com |

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

14 rows in set (0.00 sec)

mysql> desc employee\_dept\_strm;

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

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

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

| EDS\_id | int(3) | NO | PRI | NULL | |

| emp\_id | int(3) | NO | | NULL | |

| dep\_id | int(3) | NO | MUL | NULL | |

| Stm\_id | int(3) | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table employee\_dept\_strm add foreign key(emp\_id) references employee(emp\_id);

Query OK, 8 rows affected (1.33 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> desc employee\_dept\_strm;

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

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

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

| EDS\_id | int(3) | NO | PRI | NULL | |

| emp\_id | int(3) | NO | MUL | NULL | |

| dep\_id | int(3) | NO | MUL | NULL | |

| Stm\_id | int(3) | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into employee\_dept\_strm values(15,113,1,2);

Query OK, 1 row affected (0.07 sec)

mysql> insert into employee\_dept\_strm values(16,114,4,null);

Query OK, 1 row affected (0.05 sec)

mysql> select \* from employee\_dept\_strm;

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

| EDS\_id | emp\_id | dep\_id | Stm\_id |

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

| 1 | 101 | 1 | 2 |

| 2 | 102 | 1 | 2 |

| 3 | 103 | 1 | 2 |

| 4 | 104 | 1 | 1 |

| 5 | 105 | 2 | NULL |

| 6 | 106 | 2 | NULL |

| 7 | 107 | 1 | 2 |

| 8 | 108 | 1 | 1 |

| 9 | 108 | 2 | NULL |

| 10 | 108 | 3 | NULL |

| 11 | 109 | 1 | 1 |

| 12 | 110 | 3 | NULL |

| 13 | 111 | 1 | 2 |

| 14 | 112 | 1 | 2 |

| 15 | 113 | 1 | 2 |

| 16 | 114 | 4 | NULL |

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

16 rows in set (0.00 sec)

1 All the departments headed by CEO

mysql> select Dep\_Name from employee\_dept\_strm esd,department d

-> where esd.emp\_id=108 and esd.dep\_id=d.dep\_id;

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

| Dep\_Name |

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

| IT |

| HR |

| Admin |

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

mysql> select \* from role\_stream;

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

| rs\_id | role\_id | stream\_id |

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

| 1 | 1 | 1 |

| 2 | 1 | 2 |

| 3 | 2 | 1 |

| 4 | 2 | 2 |

| 5 | 3 | 1 |

| 6 | 3 | 2 |

| 7 | 4 | 1 |

| 8 | 4 | 2 |

| 9 | 5 | 2 |

| 10 | 6 | 2 |

| 11 | 7 | 1 |

| 12 | 8 | 1 |

| 13 | 9 | NULL |

| 14 | 10 | NULL |

| 15 | 11 | NULL |

| 16 | 12 | 1 |

| 17 | 13 | 2 |

| 18 | 15 | NULL |

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

18 rows in set (0.00 sec)