Relational Databases - Practical 2

Entity Relationship Diagram -

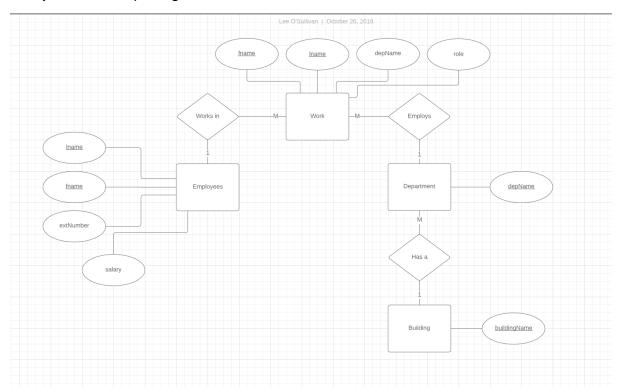


Table Descriptions -

```
mysql> DESCRIBE Building;
 Field
                              | Null | Key | Default | Extra
               Type
 buildingName | varchar(30) | NO
                                     PRI
1 row in set (0.04 sec)
mysql> DESCRIBE Department;
                              | Null | Key | Default | Extra |
 Field
               Type
 depName | varchar(30) | NO
buildingName | varchar(30) | YES
                                     PRI
                                            NULL
                                      | MUL | NULL
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE Employees;
           Type
                        | Null | Key | Default | Extra
 Field
 fname
            varchar(30) NO
                                PRI
                                     NULL
           | varchar(30) | NO
                                PRI
                                      NULL
 lname
 extNumber | varchar(4) | YES
                                      NULL
           | int(11)
                        YES
                                      NULL
 salary
4 rows in set (0.00 sec)
mysql> DESCRIBE Work;
                      | Null | Key | Default | Extra
 Field | Type
          varchar(30) NO
                              PRI
 fname
                                    NULL
         | varchar(30)
                       NO
                              PRI
                                    NULL
 lname
                      NO
 depName | varchar(30)
                              PRI
                                    NULL
 role
       | varchar(30) | YES
                                  NULL
 rows in set (0.00 sec)
mysql> SHOW Tables;
 Tables_in_company
 building
 department
 employees
 work
4 rows in set (0.09 sec)
```

SQL Queries -

Query 1 -

Query 02

Query 03

Query 04

Query 05