Project :- 1

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1. I have used MySQL server and MySQL workbench.

2. source codes for SQL create statements:

    ```
    create database Project_1;
    use Project_1;

    create table Employee (
    Fname varchar(15) not null,
    Minit char,
    Lname varchar(15) not null,
    SSN char(9) not null,
    Bdate date,
    Address varchar(30),
    sex char, Salary decimal(10,2),
    Super_SSN char(9),
    Dno int not null, primary key(SSN)
    );

    create table Department (
    Dname varchar(15),
    Dnumber int not null,
    ```

```sql
Mgr_SSN char(9) not null,

MGR_start_date date,

unique(Dname),

foreign key(Mgr_SSN) references Employee(SSN),

primary key(Dnumber)

);


create table Project (

Pname varchar(15) unique,

Pnumber int not null,

Plocation varchar(15),

Dnum int not null,

Foreign key(Dnum) references Department(Dnumber),

primary key(Pnumber)

);


create table Works_On (

ESSN char(9) not null,

Pno int not null,

Hours decimal(3,1) not null,

primary key(ESSN,Pno),

foreign key(ESSN) references Employee(SSN),

foreign key(Pno) references Project(Pnumber)

);


create table Dept_Locations (

Dnumber int not null,
```

Dlocation varchar(15),

primary key(Dnumber,Dlocation),

foreign key(Dnumber) references Department(Dnumber)

);

show tables in Project_1;

Here are the screenshots of create statements (employee as an example and list of all the created tables)

Create employee screenshot

All tables

3. At first, I have converted all the .txt files into .csv files using excel (Mdos csv file) after that I have used Table Data Import method to load all the data in different tables.

4. Source code for SQL create statements.

   select * from project_1.employee;

   select * from project_1.department;

   select * from project_1.dept_locations;

   select * from project_1.project;

   select * from project_1.works_on;

   Here are the screenshots of the individual tables with data:

   Employee Table

```
2
3 •   select * from project_1.employee;
4 |
```

Fname	Minit	Lname	SSN	Bdate	Address	Sex	Salary	Super_ssn	Dno
Lisa	G	House	101248268	29-JUN-1975	12 Maple St Austin TX	F	85000.00	null	7
Sunil	D	Gupta	110110110	01-FEB-2001	4312 Bowen Rd Arlington TX	M	80000.00	111111100	3
Jared	D	James	111111100	10-OCT-1966	123 Peachtr Atlanta GA	M	85000.00	null	6
Jon	C	Jones	111111101	14-NOV-1967	111 Allgood Atlanta GA	M	45000.00	111111100	6
Justin	null	Mark	111111102	12-JAN-1966	2342 May Atlanta GA	M	40000.00	111111100	6
Brad	C	Knight	111111103	13-FEB-1968	176 Main St. Atlanta GA	M	44000.00	111111100	6
Cameron	D	Thirteen	111422203	04-MAY-2001	22 Univ Blvd Arlington TX	F	80000.00	987987987	4
Juan	G	Linda	112244668	23-JUN-1965	1210 Apple St Austin TX	F	55000.00	null	9
Johny	C	Smith	122344668	26-JAN-1972	1221 Diploma Dr. Arlington TX	M	65000.00	999999999	9
John	B	Smith	123456789	09-Jan-1955	731 Fondren Houston TX	M	30000.00	333445555	5
Alex	C	Yu	1614905	17-OCT-1980	626 Mary St Dallas TX	M	50000.00	444444400	6
Debra	T	Hall	202843824	11-MAR-1983	45 NY St Rochester NY	F	30000.00	555555501	6
Richard	T	Koelbel	214370999	3-APR-1976	50 Elk St Chicago IL	M	85000.00	999999999	4
Evan	E	Wallis	222222200	16-JAN-1958	134 Pelham Milwaukee WI	M	92000.00	null	7
Josh	U	Zell	222222201	22-MAY-1954	266 McGrady Milwaukee WI	M	56000.00	222222200	7
Andy	C	Vile	222222202	21-JUN-1944	1967 Jordan Milwaukee WI	M	53000.00	222222200	7

Department Table

```
4
5 • select * from project_1.department;
```

Dname	Dnumber	Mgr_SSN	Mgr_start_date
Headquarters	1	888665555	19-JUN-1971
Networking	3	110110110	15-MAY-2009
Administration	4	987654321	01-JAN-1985
Research	5	333445555	22-MAY-1978
Software	6	111111100	15-MAY-1999
Hardware	7	444444400	15-MAY-1998
Sales	8	555555500	01-JAN-1997
HR	9	112244668	01-FEB-1989
QA	11	913323708	2-FEB-2010
NULL	NULL	NULL	NULL

Project Table

```
8
9 • select * from project_1.project;
```

Pname	Pnumber	Plocation	Dnum
ProductX	1	Bellaire	5
ProductY	2	Sugarland	5
ProductZ	3	Houston	5
EntityAnnot	4	Houston	5
Computerization	10	Stafford	4
ConfigMgmt	11	Atlanta	6
DataMining	13	Sacramento	6
Reorganization	20	Houston	1
SearchEngine	22	Arlington	6
MotherBoard	29	Milwaukee	7
Newbenefits	30	Stafford	4
OperatingSystem	61	Sacramento	6
DatabaseSystems	62	Atlanta	6
Middleware	63	Atlanta	6
Advertizing	70	Arlington	9
InkjetPrinters	91	Milwaukee	7

Works_on Table

```
10
11 •    select * from project_1.works_on;
```

ESSN	Pno	Hours
101248268	29	10.0
111111100	61	40.0
111111101	61	40.0
111111102	61	40.0
111111103	61	40.0
111422203	4	45.0
112244668	95	40.0
122344668	3	10.0
122344668	20	10.0
122344668	30	25.0
123456789	1	32.5
123456789	2	7.5
1614905	13	18.0
202843824	11	20.0
214370999	10	35.0
222222200	62	40.0

Dept_locations Table

```
6
7 •    select * from project_1.dept_locations;
```

Dnumber	Dlocation
1	Houston
4	Stafford
5	Bellaire
5	Houston
5	Sugarland
6	Atlanta
6	Sacramento
7	Milwaukee
8	Chicago
8	Dallas
8	Miami
8	Philadephia
8	Seattle
9	Arlington
11	Austin
NULL	NULL