

Experiment -3

- a. Create the tables for Company database as per ER diagram of Exp 2.
- b. Insert the following data into their respective tables of Company database.

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with 'company' selected. The main editor window contains the following SQL queries:

```
1 • CREATE DATABASE lmn;
2 • USE lmn;
3 • CREATE TABLE EMPLOYEE (
4     Fname VARCHAR(15) NOT NULL,
5     Minit CHAR,
6     Lname VARCHAR(15) NOT NULL,
7     Ssn CHAR(9) NOT NULL,
8     Bdate DATE,
9     Address VARCHAR(30),
10    Sex CHAR,
11    Salary DECIMAL(10,2),
12    Super_ssn CHAR(9),
13    Dno INT NOT NULL
14 );
15
```

The right sidebar shows the 'SQLAdditions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The bottom panel shows the 'Output' window with the following execution results:

#	Time	Action	Message	Duration / Fetch
1	11:26:19	CREATE DATABASE lmn	Error Code: 1007. Can't create database 'lmn'; database exists	0.000 sec
2	11:26:42	CREATE DATABASE lmn	Error Code: 1007. Can't create database 'lmn'; database exists	0.000 sec
3	11:26:54	USE lmn	0 row(s) affected	0.000 sec
4	11:27:01	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)	0 row(s) affected	0.032 sec
5	11:27:14	INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES ...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.015 sec
6	11:27:54	CREATE TABLE DEPARTMENT (Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL, Mgr_ssn CHAR(9) NOT NULL, Dlocation VARCHAR(30) NOT NULL)	0 row(s) affected	0.031 sec

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

Schemas

- company
 - Tables
 - Views
 - Stored Procedures
 - Functions
- inn
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sys
 - temp1
 - temp2
 - test

Administration Schemas

Information

Schema: company

Object Info Session

Query 1: SQL File 4*

Limit to 1000 rows

```

13 Dno INT NOT NULL
14 );
15
16 INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES
17 ('John', 'B', 'Smith', '123456789', '1965-01-09', '731 F', 'M', 12000, NULL, 1),
18 ('Franklin', 'T', 'Wong', '333445555', '1965-12-08', '631 S', 'M', 9500, NULL, 2),
19 ('Alicia', 'J', 'Zelaya', '999887777', '1968-01-19', '331 S', 'F', 11000, NULL, 3),
20 ('Jennifer', 'S', 'Wallace', '987654321', '1941-06-20', '1 S', 'F', 11000, NULL, 4),
21 ('Ramesh', 'K', 'Narayan', '666884444', '1962-09-15', '9 S', 'M', 13000, NULL, 5),
22 ('Joyce', 'A', 'English', '453453453', '1972-07-31', '56 S', 'F', 9800, NULL, 6),
23 ('Ahmad', 'V', 'Jabbar', '987987987', '1969-03-29', '980 S', 'M', 7600, NULL, 7),
24 ('James', 'E', 'Borg', '888665555', '1937-11-10', '450 S', 'M', 9500, NULL, 8);
25
26 CREATE TABLE DEPARTMENT (
27 Dname VARCHAR(15) NOT NULL,

```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	11:26:19	CREATE DATABASE inn	Error Code: 1007. Can't create database 'inn': database exists	0.000 sec
2	11:26:42	CREATE DATABASE inn	Error Code: 1007. Can't create database 'inn': database exists	0.000 sec
3	11:26:54	USE inn	0 row(s) affected	0.000 sec
4	11:27:01	CREATE TABLE EMPLOYEE (Fname VARCHAR(15) NOT NULL, Minit CHAR, Lname VARCHAR(15) NOT NULL, Ssn CHAR(9) NOT NULL, Bdate DATE NOT NULL, Address VARCHAR(255) NOT NULL, Sex CHAR(1) NOT NULL, Salary DECIMAL(10,2) NOT NULL, Super_ssn CHAR(9) NOT NULL, Dno INT NOT NULL)	0 row(s) affected	0.032 sec
5	11:27:14	INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES ...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.015 sec
6	11:27:54	CREATE TABLE DEPARTMENT (Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL, Mgr_ssn CHAR(9) NOT NULL, Mgr_start_date DATE NOT NULL)	0 row(s) affected	0.031 sec

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

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Schemas

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Administration Schemas

Information

Schema: company

Object Info Session

Query 1: SQL File 4*

Limit to 1000 rows

```

25
26 CREATE TABLE DEPARTMENT (
27 Dname VARCHAR(15) NOT NULL,
28 Dnumber INT NOT NULL,
29 Mgr_ssn CHAR(9) NOT NULL,
30 Mgr_start_date DATE NOT NULL,
31 );
32 INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr_ssn, Mgr_start_date) VALUES
33 ('Research', 5, '333445555', '1988-05-22'),
34 ('Administration', 4, '987654321', '1995-01-01'),
35 ('Headquarters', 1, '888665555', '1981-06-19');
36
37 CREATE TABLE PROJECT (
38 Pname VARCHAR(15) NOT NULL,
39 Pnumber INT NOT NULL,

```

SQLAdditions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	11:26:19	CREATE DATABASE inn	Error Code: 1007. Can't create database 'inn': database exists	0.000 sec
2	11:26:42	CREATE DATABASE inn	Error Code: 1007. Can't create database 'inn': database exists	0.000 sec
3	11:26:54	USE inn	0 row(s) affected	0.000 sec
4	11:27:01	CREATE TABLE EMPLOYEE (Fname VARCHAR(15) NOT NULL, Minit CHAR, Lname VARCHAR(15) NOT NULL, Ssn CHAR(9) NOT NULL, Bdate DATE NOT NULL, Address VARCHAR(255) NOT NULL, Sex CHAR(1) NOT NULL, Salary DECIMAL(10,2) NOT NULL, Super_ssn CHAR(9) NOT NULL, Dno INT NOT NULL)	0 row(s) affected	0.032 sec
5	11:27:14	INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES ...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.015 sec
6	11:27:54	CREATE TABLE DEPARTMENT (Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL, Mgr_ssn CHAR(9) NOT NULL, Mgr_start_date DATE NOT NULL)	0 row(s) affected	0.031 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

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Administration Schemas

Information

Schema: company

Object Info Session

Query 1: SQL File 4*

Limit to 1000 rows

```

31 );
32 • INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr_ssn, Mgr_sta
33 ('Research', 5, '333445555', '1988-05-22'),
34 ('Administration', 4, '987654321', '1995-01-01'),
35 ('Headquarters', 1, '888665555', '1981-06-19');
36
37 • CREATE TABLE PROJECT (
38     Pname VARCHAR(15) NOT NULL,
39     Pnumber INT NOT NULL,
40     Plocation VARCHAR(15),
41     Dnum INT NOT NULL
42 );
43 • INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) VA
44 ('ProductX', 1, 'Bellaire', 5),
45 ('ProductY', 2, 'Sugarland', 5),

```

SQL Additions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	11:26:19	CREATE DATABASE inn	Error Code: 1007. Can't create database 'inn'; database exists	0.000 sec
2	11:26:42	CREATE DATABASE inn	Error Code: 1007. Can't create database 'inn'; database exists	0.000 sec
3	11:26:54	USE inn	0 row(s) affected	0.000 sec
4	11:27:01	CREATE TABLE EMPLOYEE (Fname VARCHAR(15) NOT NULL, Minit CHAR, Lname VARCHAR(15) NOT NULL, Ssn VARCHAR(9) NOT NULL, Bdate DATE NOT NULL, Address VARCHAR(100) NOT NULL, Sex CHAR(1) NOT NULL, Salary DECIMAL(10,2) NOT NULL, Super_ssn VARCHAR(9) NOT NULL, Dno INT NOT NULL) VALUES ('Research', 5, '333445555', '1988-05-22'), ('Administration', 4, '987654321', '1995-01-01'), ('Headquarters', 1, '888665555', '1981-06-19')	0 row(s) affected	0.032 sec
5	11:27:14	INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES ('ProductX', 1, 'Bellaire', 5), ('ProductY', 2, 'Sugarland', 5), ('ProductZ', 3, 'Houston', 5), ('Computerization', 10, 'Stafford', 4), ('Reorganization', 20, 'Houston', 1), ('Newbenefits', 30, 'Stafford', 4);	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.015 sec
6	11:27:54	CREATE TABLE DEPARTMENT (Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL, Mgr_ssn VARCHAR(9) NOT NULL, Mgr_start_date DATE NOT NULL) VALUES ('Research', 5, '333445555', '1988-05-22'), ('Administration', 4, '987654321', '1995-01-01'), ('Headquarters', 1, '888665555', '1981-06-19');	0 row(s) affected	0.031 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Filter objects

SCHMAS

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 - test

Administration Schemas

Information

Schema: company

Object Info Session

Query 1: SQL File 4*

Limit to 1000 rows

```

43 • INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) VA
44 ('ProductX', 1, 'Bellaire', 5),
45 ('ProductY', 2, 'Sugarland', 5),
46 ('ProductZ', 3, 'Houston', 5),
47 ('Computerization', 10, 'Stafford', 4),
48 ('Reorganization', 20, 'Houston', 1),
49 ('Newbenefits', 30, 'Stafford', 4);
50
51 • CREATE TABLE WORKS_ON (
52     Essn CHAR(9) NOT NULL,
53     Pno INT NOT NULL,
54     Hours DECIMAL(3,1) NOT NULL
55 );
56

```

SQL Additions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	11:27:14	INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES ('Research', 5, '333445555', '1988-05-22'), ('Administration', 4, '987654321', '1995-01-01'), ('Headquarters', 1, '888665555', '1981-06-19')	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.015 sec
6	11:27:54	CREATE TABLE DEPARTMENT (Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL, Mgr_ssn VARCHAR(9) NOT NULL, Mgr_start_date DATE NOT NULL) VALUES ('Research', 5, '333445555', '1988-05-22'), ('Administration', 4, '987654321', '1995-01-01'), ('Headquarters', 1, '888665555', '1981-06-19');	0 row(s) affected	0.031 sec
7	11:27:59	INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr_ssn, Mgr_start_date) VALUES ('Research', 5, '333445555', '1988-05-22'), ('Administration', 4, '987654321', '1995-01-01'), ('Headquarters', 1, '888665555', '1981-06-19');	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.015 sec
8	11:28:07	CREATE TABLE PROJECT (Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Plocation VARCHAR(15), Dnum INT NOT NULL) VALUES ('ProductX', 1, 'Bellaire', 5), ('ProductY', 2, 'Sugarland', 5), ('ProductZ', 3, 'Houston', 5), ('Computerization', 10, 'Stafford', 4), ('Reorganization', 20, 'Houston', 1), ('Newbenefits', 30, 'Stafford', 4);	0 row(s) affected	0.016 sec
9	11:28:12	INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellaire', 5), ('ProductY', 2, 'Sugarland', 5), ('ProductZ', 3, 'Houston', 5), ('Computerization', 10, 'Stafford', 4), ('Reorganization', 20, 'Houston', 1), ('Newbenefits', 30, 'Stafford', 4);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.015 sec
10	11:28:18	CREATE TABLE WORKS_ON (Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECIMAL(3,1) NOT NULL)	0 row(s) affected	0.031 sec

Output			
Action Output			
#	Time	Action	Message
1	10:41:42	INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES (123456789, 1, 32.5), (123456789, 2, 7.5), (666884444, 3, 40.0), (453453453, 1, 20.0), (453...	15 row(s) affected Records: 15 Duplicates: 0 Warnings: 0

Outputs –

Output			
Action Output			
#	Time	Action	Message
1	11:26:19	CREATE DATABASE Inn	Error Code: 1007. Can't create database 'Inn'; database exists
2	11:26:42	CREATE DATABASE Inn	Error Code: 1007. Can't create database 'Inn'; database exists
3	11:26:54	USE Inn	0 row(s) affected
4	11:27:01	CREATE TABLE EMPLOYEE (Fname VARCHAR(15) NOT NULL, Minit CHAR, Lname VARCHAR(15)...	0 row(s) affected
5	11:27:14	INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) VALUES (...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0
6	11:27:54	CREATE TABLE DEPARTMENT (Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL, Mgr_ss...	0 row(s) affected
7	11:27:59	INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr_ssn, Mgr_start_date) VALUES ('Research', 5, '333445555...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0
8	11:28:07	CREATE TABLE PROJECT (Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Plocation VA...	0 row(s) affected
9	11:28:12	INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellare', 5), ('ProductY', 2,...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0
10	11:28:18	CREATE TABLE WORKS_ON (Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECIMAL(3,1) N...	0 row(s) affected
11	11:28:50	INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES (123456789, 1, 32.5), (123456789, 2, 7.5), (6668844...	Error Code: 1054. Unknown column 'I' in field list
12	11:30:47	INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES (123456789, 1, 32.5), (123456789, 2, 7.5), (6668844...	Error Code: 1054. Unknown column 'I' in field list
13	11:32:31	INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES (123456789, 1, 32.5), (123456789, 2, 7.5), (6668844...	Error Code: 1054. Unknown column 'I' in field list
14	11:38:22	INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES (123456789, 1, 32.5), (123456789, 2, 7.5), (6668844...	Error Code: 1054. Unknown column 'I' in field list

```
mysql> describe employee;
```

Field	Type	Null	Key	Default	Extra
Fname	varchar(15)	NO		NULL	
Minit	char(1)	YES		NULL	
Lname	varchar(15)	NO		NULL	
Ssn	char(9)	NO		NULL	
Bdate	date	YES		NULL	
Address	varchar(30)	YES		NULL	
Sex	char(1)	YES		NULL	
Salary	decimal(10,2)	YES		NULL	
Super_ssn	char(9)	YES		NULL	
Dno	int	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> describe department;
```

Field	Type	Null	Key	Default	Extra
Dname	varchar(15)	NO		NULL	
Dnumber	int	NO		NULL	
Mgr_ssn	char(9)	NO		NULL	
Mgr_start_date	date	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> describe project;
```

Field	Type	Null	Key	Default	Extra
Pname	varchar(15)	NO		NULL	
Pnumber	int	NO		NULL	
Plocation	varchar(15)	YES		NULL	
Dnum	int	NO		NULL	

4 rows in set (0.00 sec)

NIPUN AGRWAL

BATCH – B2

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