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**SAP ID:** 590012175  
**BATCH:** B1  
**DBMS LAB 5**

**AIM:** *Understanding of SQL*

Divyansh Kumar Singh  
5980012175  
B1

classmate

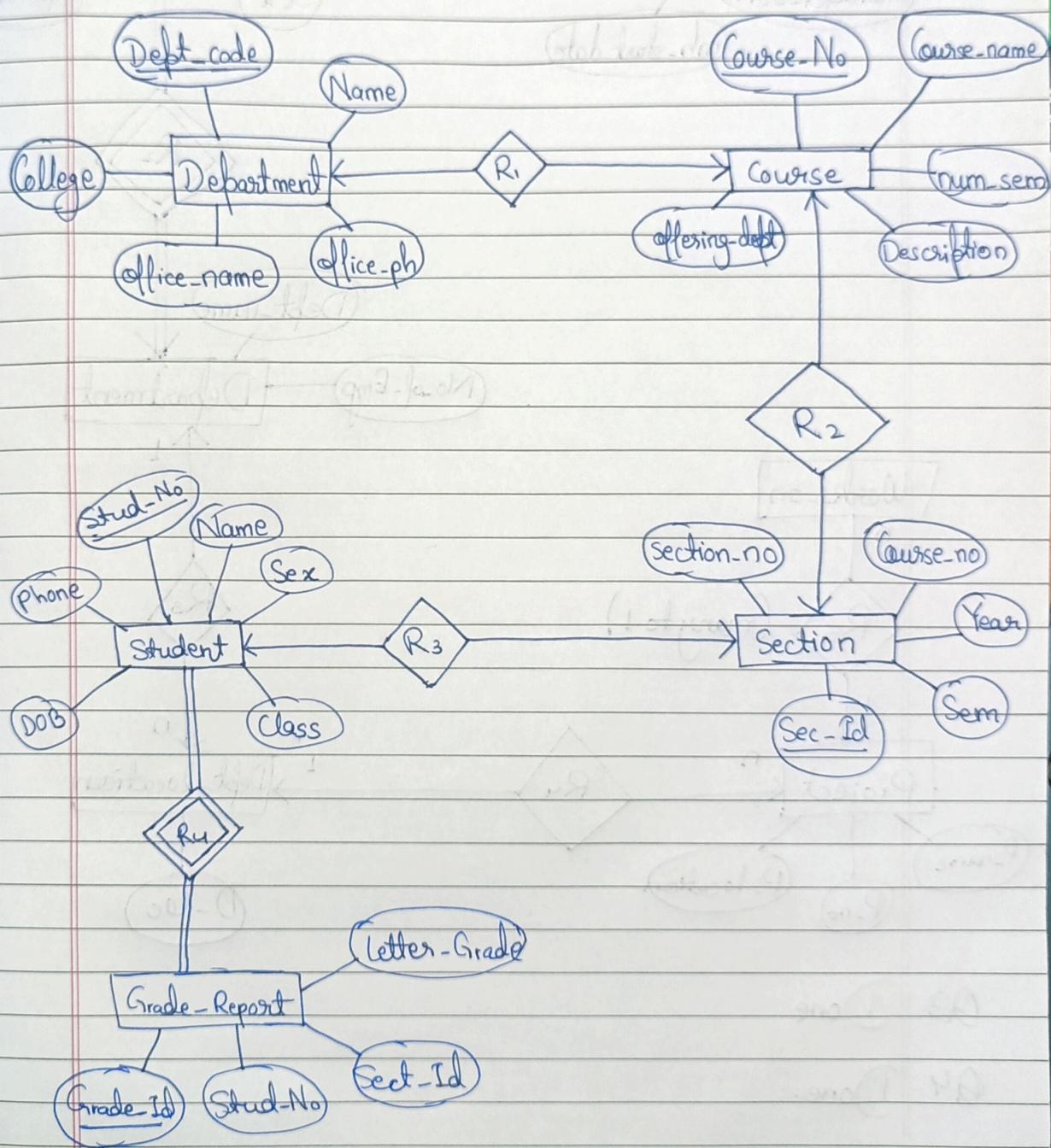
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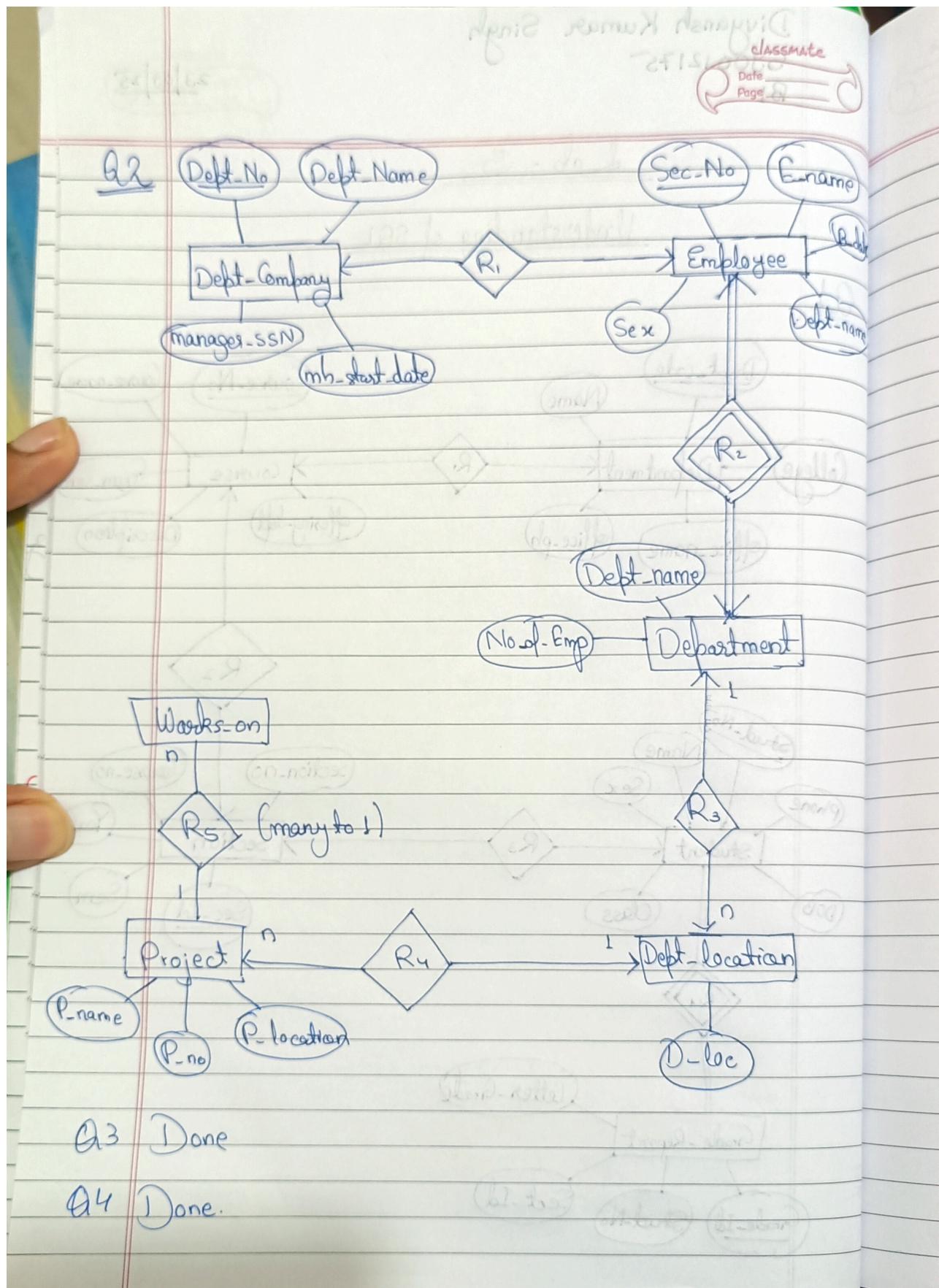
Page

## Lab - 5

### Understanding of SQL

A1





## **Lab 5: Understanding of SQL**

**Dr. Keshav Sinha**

### **Question 1**

**Title:** Consider the following set of requirements for a UNIVERSITY database that is used to keep track of students' transcripts.

1. The university keeps track of each student's name, student number, Social Security number, current address and phone number, permanent address and phone number, birth date, sex, class (freshman, sophomore, ..., graduate), major department, minor department (if any), and degree program (B.A., B.S., ..., Ph.D.). Some user applications need to refer to the city, state, and ZIP Code of the student's permanent address and to the student's last name. Both Social Security number and student number have unique values for each student.
  - a. Each department is described by a name, department code, office number, office phone number, and college. Both name and code have unique values for each department.
  - b. Each course has a course name, description, course number, number of semester hours, level, and offering department. The value of the course number is unique for each course.
  - c. Each section has an instructor, semester, year, course, and section number. The section number distinguishes sections of the same course that are taught during the same semester/year; its values are 1, 2, 3, ..., up to the number of sections taught during each semester.
  - d. A grade report has a student, section, letter grade, and numeric grade (0, 1, 2, 3, or 4).

Design an Entity-Relationship diagram for the mail order database and enter the design using a data-modeling tool such as ERWin/free tool. Specify key attributes of each entity type, and structural constraints on each relationship type. Note any unspecified requirements and make appropriate assumptions to make the specification complete.

### **Question 2**

Title. Consider the following set of requirements for a Company database that is used to keep track of employee.

The company is organized into departments. Each department has a unique name, a unique number, and a particular employee who manages the department. We keep track of the start date when that employee began managing the department. A department may have several locations.

- a. A department controls a number of projects, each of which has a unique name, a unique number, and a single location.
- b. We store each employee's name, Social Security number, address, salary, sex (gender), and birth date. An employee is assigned to one department, but may work on several projects, which are not necessarily controlled by the same department. We keep track of the current number of hours per week that an employee works on each project. We also keep track of the direct supervisor of each employee (who is another employee).
- c. We want to keep track of the dependents of each employee for insurance purposes. We keep each dependent's first name, sex, birth date, and relationship to the employee.

Design an Entity-Relationship diagram for the company database and enter the design using a data-modeling tool such as ERWin/free tool.

### Question 3

**Objective:** To understand the concept of designing issue related to the database with creating, populating the tables. To understand the concept of data constraints that is enforced on data being stored in the table. Focus on Primary Key and the Foreign Key.

- a. **Create the tables for** Company database as per ER diagram of Exp 2.

TABLE 1: 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),  
FOREIGN KEY (Super_ssn) REFERENCES EMPLOYEE(Ssn),  
FOREIGN KEY (Dno) REFERENCES DEPARTMENT(Dnumber)  
]
```

TABLE 2: DEPARTMENT

```
[Dname VARCHAR(15) NOT NULL,  
Dnumber INT NOT NULL,  
Mgr_ssn CHAR(9) NOT NULL,  
Mgr_start_date DATE,  
PRIMARY KEY (Dnumber),  
UNIQUE (Dname),  
FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn) );  
]
```

TABLE 3: DEPT\_LOCATIONS

```
( Dnumber INT NOT NULL,  
Dlocation VARCHAR(15) NOT NULL,  
PRIMARY KEY (Dnumber, Dlocation),  
FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber) );
```

TABLE 4: PROJECT

```
( Pname VARCHAR(15) NOT NULL,  
Pnumber INT NOT NULL,  
Plocation VARCHAR(15),  
Dnum INT NOT NULL,
```

PRIMARY KEY (Pnumber),  
 UNIQUE (Pname),  
 FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber);

TABLE 5: 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) );

TABLE 6: DEPENDENT

( Essn CHAR(9) NOT NULL,  
 Dependent\_name VARCHAR(15) NOT NULL,  
 Sex CHAR,  
 Bdate DATE,  
 Relationship VARCHAR(8),  
 PRIMARY KEY (Essn, Dependent\_name),  
 FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn) );

**b. Insert the following data into their respective tables of Company database.**

DEPARTMENT

DNAME	DNUMBER	MGRSSN	MGRSTARTDATE
Research	5	333445555	1988-05-22
Administration	4	987654321	1995-01-01
Headquarters	1	888665555	1981-06-19

EMPLOYEE

FNAME	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
John	Smith	123456789	1965-01-09	731 Fondren, Houston TX	M	30000	333445555	5

## EMPLOYEE

FNAME	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
Franklin	Wong	333445555	1965-12-08	638 Voss, Houston TX	M	40000	888665555	5
Alicia	Zelaya	999887777	1968-01-19	3321 Castle, Spring TX	F	25000	987654321	4
Jennifer	Wallace	987654321	1941-06-20	291 Berry, Bellaire TX	F	43000	888665555	4
Ramesh	Narayan	666884444	1962-09-15	975 Fire Oak, Humble TX	M	38000	333445555	5
Joyce	English	453453453	1972-07-31	5631 Rice, Houston TX	F	25000	333445555	5
Ahmad	Jabbar	987987987	1969-03-29	980 Dallas, Houston TX	M	25000	987654321	4
James	Borg	888665555	1937-11-10	450 Stone, Houston TX	M	55000	null	1

## PROJECT

PNAME	PNUMBER	PLOCATION	DNUM
ProductX	1	Bellaire	5
ProductY	2	Sugarland	5
ProductZ	3	Houston	5
Computerization	10	Stafford	4
Reorganization	20	Houston	1
Newbenefits	30	Stafford	4

## WORKS\_ON

ESSN	PNO	HOURS
123456789	1	32.5
123456789	2	7.5
666884444	3	40.0

### WORKS\_ON

ESSN	PNO	HOURS
453453453	1	20.0
453453453	2	20.0
333445555	2	10.0
333445555	3	10.0
333445555	10	10.0
333445555	20	10.0
999887777	30	30.0
999887777	10	10.0
987987987	10	35.0
987987987	30	5.0
987654321	30	20.0
987654321	20	15.0
888665555	20	null

### DEPENDENT

ESSN	DEPENDENT_NAME	SEX	BDATE	RELATIONSHIP
333445555	Alice	F	1986-04-04	Daughter
333445555	Theodore	M	1983-10-25	Son
333445555	Joy	F	1958-05-03	Spouse
987654321	Abner	M	1942-02-28	Spouse
123456789	Michael	M	1988-01-04	Son
123456789	Alice	F	1988-12-30	Daughter
123456789	Elizabeth	F	1967-05-05	Spouse

### DEPT\_LOCATIONS

DNUMBER	DLOCATION
1	Houston
4	Stafford
5	Bellaire

### DEPT\_LOCATIONS

DNUMBER	DLOCATION
5	Houston
5	Sugarland

### **Question 4**

**Objective:** To understand the concept of data constraints that is enforced on data being stored in the table. Focus on Primary Key and the Foreign Key.

**1. Create the tables described below:**

**Table name: CLIENT\_MASTER**

**Description:** used to store client information.

Column name	data type	Size	Constraints
CLIENTNO	Varchar	6	Primary key / first letter must start with 'C'
NAME	Varchar	20	Not Null
ADDRESS 1	Varchar	30	
ADDRESS 2	Varchar	30	
CITY	Varchar	15	
PINCODE	Integer	8	
STATE	Varchar	15	
BALDUE	Decimal	10,2	

**Table Name:** **PRODUCT\_MASTER**

**Description:** used to store product information

Column name	data type	Size	Attributes
PRODUCTNO	Varchar	6	Primary Key/ first letter must start with 'P'
DESCRIPTION	Varchar	15	Not Null
PROFITPERCENT	Decimal	4,2	Not Null
UNIT MEASURE	Varchar	10	Not Null
QTYONHAND	Integer	8	Not Null

REORDERL VL	Integer	8	Not Null
SELLPRICE	Decimal	8,2	Not Null
COSTPRICE	Decimal	8,2	Not Null

**Table Name: SALESMAN\_MASTER**

**Description:** used to store salesman information working for the company.

Column name	data type	Size	Attributes
SALESMANNO	Varchar	6	Primary Key/ first letter must start with 'S'
SALESMANNAME	Varchar	20	Not Null
ADDRESS 1	Varchar	30	Not Null
ADDRESS 2	Varchar	30	
CITY	Varchar	20	
PINCODE	Integer	8	
STATE	Varchar	20	
SALAMT	Real	8,2	Not Null , Cannot be 0
TGTTOGET	Decimal	6,2	Not Null , Cannot be 0
YTDSALES	Double	6,2	Not Null
REMARKS	Varchar	60	

**1. Insert the following data into their respective tables:**

a) Data for **CLIENT\_MASTER** table:

Client no	Name	City	Pincode	State	BalDue
C00001	Ivan bayross	Mumbai	400054	Maharashtra	15000
C00002	Mamta muzumdar	Madras	780001	Tamil nadu	0
C00003	Chhaya bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini joshi	Bangalore	560001	Karnataka	0
C00005	Hansel colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak sharma	Mangalore	560050	Karnataka	0

b) Data for **PRODUCT\_MASTER** table:

Product No	Description	Profit percent	Unit measure	Quantity On hand	Recorder Level	Sell Price	Cost Price

P00001	T-Shirt	5	Piece	200	50	350	250
P0345	Shirts	6	Piece	150	50	500	350
P06734	Cotton jeans	5	Piece	100	20	600	450
P07865	Jeans	5	Piece	100	20	750	500
P07868	Trousers	2	Piece	150	50	850	550
P07885	Pull Overs	2.5	Piece	80	30	700	450
P07965	Denim jeans	4	Piece	100	40	350	250
P07975	Lycra tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

c) Data for **SALESMAN\_MASTER** table:

Salesman No	Name	Address1	Address2	City	Pin Code	State
S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra
S00004	Ashish	A/5	Juhu	Mumbai	400044	Maharashtra

## 2. Exercise on retrieving records from a table.

- Find out the names of all the clients.
- Retrieve the entire contents of the Client\_Master table.
- Retrieve the list of names, city and the state of all the clients.
- List the various products available from the Product\_Master table.
- List all the clients who are located in Mumbai.
- Find the names of salesman who have a salary equal to Rs.3000.

## 3. Exercise on updating records in a table

- Change the city of ClientNo ‘C00005’ to ‘Bangalore’.
- Change the BalDue of ClientNo ‘C00001’ to Rs.1000.
- Change the cost price of ‘Trousers’ to rs.950.00.
- Change the city of the salesman to Pune.

**4. Exercise on deleting records in a table**

- a. Delete all salesman from the Salesman\_Master whose salaries are equal to Rs.3500.
- b. Delete all products from Product\_Master where the quantity on hand is equal to 100.
- c. Delete from Client\_Master where the column state holds the value ‘Tamil Nadu’.

**5. Exercise on altering the table structure**

- a. Add a column called ‘Telephone’ of data type integer to the Client\_Master table.
- b. Change the size off SellPrice column in Product\_Master to 10, 2.

**6. Exercise on deleting the table structure along with the data**

- a. Destroy the table Client\_Master along with its data.

MySQL Workbench

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SCHEMAS Filter objects

> Basic  
> Bus\_Station  
> Lab\_3  
> Lab\_4  
lab\_5  
> Tables  
> Views  
> Stored Pr...  
> Functions  
> Sample  
> sys  
> TechCo

```
1 • CREATE DATABASE IF NOT EXISTS lab_5;
2
3 • USE lab_5;
4
5 -----
6 -- Question 3
7 • ⊖ CREATE TABLE Department (
8     Dname VARCHAR(15) NOT NULL,
9     Dnumber INT NOT NULL,
10    Mgr_ssn CHAR(9),
11    Mgr_start_date DATE,
12    PRIMARY KEY (Dnumber),
13    -- FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn),
14    UNIQUE (Dname)
15 );
16
17 • ⊖ CREATE TABLE Employee (
18     Fname VARCHAR(15) NOT NULL,
19     Minit CHAR,
20     Lname VARCHAR(15),
21     Ssn CHAR(9) NOT NULL,
22     Bdate DATE,
23     Address VARCHAR(30),
24     Sex CHAR,
25     Salary DECIMAL(10, 2),
26     Super_ssn CHAR(9),
27     Dno INT NOT NULL,
28     PRIMARY KEY (Ssn),
29     FOREIGN KEY (Dno) REFERENCES Department (Dnumber)
30 );
```

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Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	14:44:30	CREATE DATABASE IF NOT EXISTS lab_5	1 row(s) aff...	0.0052 sec
✓ 2	14:44:40	USE lab_5	0 row(s) aff...	0.00065 sec
✓ 3	14:45:39	CREATE TABLE Department ( Dname VARCHAR(15) NOT NULL, Dnumber INT NOT NULL,...	0 row(s) aff...	0.010 sec
✓ 4	14:46:15	CREATE TABLE Employee ( Fname VARCHAR(15) NOT NULL, Minit CHAR, Lname VARC...	0 row(s) aff...	0.014 sec
✓ 5	14:46:21	ALTER TABLE Department ADD FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn)	0 row(s) aff...	0.024 sec
✓ 6	14:46:28	CREATE TABLE Dent_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT ...	0 row(s) aff...	0.0086 sec

Query Completed

MySQL Workbench

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Filter objects

```

SCHEMAS
> Basic
> Bus_Station
> Lab_3
> Lab_4
-> lab_5
  > Tables
  > Views
  > Stored Pr...
  > Functions
-> Sample
-> sys
-> TechCo

ALTER TABLE Department
ADD FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn);

CREATE TABLE Dept_locations (
  Dnumber INT NOT NULL,
  Dlocation VARCHAR(15) NOT NULL,
  PRIMARY KEY (Dnumber, Dlocation),
  FOREIGN KEY (Dnumber) REFERENCES Department (Dnumber)
);

CREATE TABLE Project (
  Pname VARCHAR(15) NOT NULL,
  Pnumber INT NOT NULL,
  Plocation VARCHAR(15),
  Dnum INT NOT NULL,
  PRIMARY KEY (Pnumber),
  UNIQUE (Pname),
  FOREIGN KEY (Dnum) REFERENCES Department (Dnumber)
);

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 Dependent (
  Essn CHAR(9) NOT NULL
);

```

Action Output

	Time	Action	Response	Duration / Fetch Time
5	14:46:21	ALTER TABLE Department ADD FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn)	0 row(s) aff...	0.024 sec
6	14:46:28	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT... )	0 row(s) aff...	0.0086 sec
7	14:46:30	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT... )	Error Code:...	0.0020 sec
8	14:46:39	CREATE TABLE Project ( Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Pl... )	0 row(s) aff...	0.011 sec
9	14:46:39	CREATE TABLE Works_on ( Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECI... )	0 row(s) aff...	0.0096 sec
10	14:46:57	CREATE TABLE Dependent ( Essn CHAR(9) NOT NULL, Dependent_name VARCHAR(15)... )	0 row(s) aff...	0.011 sec

Query Completed

## MySQL Workbench

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**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- < lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

59
60
61 • CREATE TABLE Dependent (
62   Essn CHAR(9) NOT NULL,
63   Dependent_name VARCHAR(15) NOT NULL,
64   Sex CHAR,
65   Bdate DATE,
66   Relationship VARCHAR(8),
67   PRIMARY KEY (Essn, Dependent_name),
68   FOREIGN KEY (Essn) REFERENCES Employee (Ssn)
69 );
70
71 ----- Inserting data
72 • INSERT INTO
73   Department (Dname, Dnumber, Mgr_ssn, Mgr_start_date)
74   VALUES
75   ('Research', 5, NULL, '1988-05-22'),
76   ('Administration', 4, NULL, '1995-01-01'),
77   ('Headquarters', 1, NULL, '1981-06-19');
78
79 • INSERT INTO
80   Employee (
81     Fname,
82     Minit,
83     Lname,
84     Ssn,
85     Bdate,
86     Address,
87     Sex,
88     Salary,
89     Super_ssn,
90     Dno

```

Action Output

	Time	Action	Response	Duration / Fetch Time
5	14:46:21	ALTER TABLE Department ADD FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn)	0 row(s) aff...	0.024 sec
6	14:46:28	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT... )	0 row(s) aff...	0.0086 sec
7	14:46:30	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT... )	Error Code:...	0.0020 sec
8	14:46:39	CREATE TABLE Project ( Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Pl...	0 row(s) aff...	0.01 sec
9	14:46:39	CREATE TABLE Works_on ( Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECIM...	0 row(s) aff...	0.0096 sec
10	14:46:57	CREATE TABLE Dependent ( Essn CHAR(9) NOT NULL, Dependent_name VARCHAR(15)... )	0 row(s) aff...	0.011 sec

Query Completed

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**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- < lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

**VALUES**

```

90
91
92
93   (
94     'John',
95     'B',
96     'Smith',
97     '123456789',
98     '1965-01-09',
99     '731 Fondren, Houston TX',
100    'M',
101    30000,
102    '333445555',
103    5
104  ),
105  (
106    'Franklin',
107    'T',
108    'Wong',
109    '333445555',
110    '1965-12-08',
111    '638 Voss, Houston TX',
112    'M',
113    40000,
114    '888665555',
115    5
116  ),
117  (
118    'Alicia',
119    'J',
120    'Zelaya',
121    '999887777',
122    '1968-01-10'
  
```

Action Output

	Time	Action	Response	Duration / Fetch Time
5	14:46:21	ALTER TABLE Department ADD FOREIGN KEY (Mgr_ssN) REFERENCES Employee (Ssn)	0 row(s) aff...	0.024 sec
6	14:46:28	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT ...	0 row(s) aff...	0.0086 sec
7	14:46:30	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT ...	Error Code:...	0.0020 sec
8	14:46:39	CREATE TABLE Project ( Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Pl...	0 row(s) aff...	0.011 sec
9	14:46:39	CREATE TABLE Works_on ( Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DEC...)	0 row(s) aff...	0.0096 sec
10	14:46:57	CREATE TABLE Dependent ( Essn CHAR(9) NOT NULL, Dependent_name VARCHAR(15)...)	0 row(s) aff...	0.011 sec

Query Completed

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SCHEMAS

Basic Bus\_Station Lab\_3 Lab\_4 lab\_5 Tables Views Stored Pr... Functions Sample sys TechCo

116  
117     'Alicia',  
118     'J',  
119     'Zelaya',  
120     '999887777',  
121     '1968-01-19',  
122     '3321 Castle, Spring TX',  
123     'F',  
124     25000,  
125     '987654321',  
126     4  
127     ),  
128     (  
129     'Jennifer',  
130     'S',  
131     'Wallace',  
132     '987654321',  
133     '1941-06-20',  
134     '291 Berry, Bellaire TX',  
135     'F',  
136     43000,  
137     '888665555',  
138     4  
139     ),  
140     (  
141     'Ramesh',  
142     'K',  
143     'Narayan',  
144     '666884444',  
145     '1962-09-15',  
146     '975 Fire Oak, Humble TX',  
147     '''

Action Output

	Time	Action	Response	Duration / Fetch Time
5	14:46:21	ALTER TABLE Department ADD FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn)	0 row(s) aff...	0.024 sec
6	14:46:28	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT...	0 row(s) aff...	0.0086 sec
7	14:46:30	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT...	Error Code:...	0.0020 sec
8	14:46:39	CREATE TABLE Project ( Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Pl...	0 row(s) aff...	0.011 sec
9	14:46:39	CREATE TABLE Works_on ( Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECI...	0 row(s) aff...	0.0096 sec
10	14:46:57	CREATE TABLE Dependent ( Essn CHAR(9) NOT NULL, Dependent_name VARCHAR(15)...	0 row(s) aff...	0.011 sec

Query Completed

MySQL Workbench

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SQL File 4 | Divyansh Kumar Singh 590012175 Lab 3 | Divyansh Kumar Singh 590012175 Lab 4 | >>

**Schemas**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

140
141   'Ramesh',
142   'K',
143   'Narayan',
144   '666884444',
145   '1962-09-15',
146   '975 Fire Oak, Humble TX',
147   'M',
148   38000,
149   '333445555',
150   5
151   ),
152   (
153   'Joyce',
154   'A',
155   'English',
156   '453453453',
157   '1972-07-31',
158   '5631 Rice, Houston TX',
159   'F',
160   25000,
161   '333445555',
162   5
163   ),
164   (
165   'Ahmad',
166   'V',
167   'Jabbar',
168   '987987987',
169   '1969-03-29',
170   '980 Dallas, Houston TX',
171   'M'
  
```

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Action Output

	Time	Action	Response	Duration / Fetch Time
5	14:46:21	ALTER TABLE Department ADD FOREIGN KEY (Mgr_ssn) REFERENCES Employee (Ssn)	0 row(s) aff...	0.024 sec
6	14:46:28	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT...)	0 row(s) aff...	0.0086 sec
7	14:46:30	CREATE TABLE Dept_locations ( Dnumber INT NOT NULL, Dlocation VARCHAR(15) NOT...)	Error Code:...	0.0020 sec
8	14:46:39	CREATE TABLE Project ( Pname VARCHAR(15) NOT NULL, Pnumber INT NOT NULL, Pi...	0 row(s) aff...	0.011 sec
9	14:46:39	CREATE TABLE Works_on ( Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECI...	0 row(s) aff...	0.0096 sec
10	14:46:57	CREATE TABLE Dependent ( Essn CHAR(9) NOT NULL, Dependent_name VARCHAR(15)...)	0 row(s) aff...	0.011 sec

Query Completed

MySQL Workbench

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS Q Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

  '987987987',
  '1969-03-29',
  '980 Dallas, Houston TX',
  'M',
  25000,
  '987654321',
  4
),
(
  'James',
  'E',
  'Borg',
  '888665555',
  '1937-11-10',
  '450 Stone, Houston TX',
  'M',
  55000,
  NULL,
  1
);
189
190 • SELECT * FROM Department;
191
  
```

Result Grid

Dname	Dnumber	Mgr_ssn	Mgr_start_d...
Headquarters	1	NULL	1981-06-19
Administration	4	NULL	1995-01-01
Research	5	HULL	1988-05-22
	NULL	NULL	NULL

Department 1

Action Output

	Time	Action	Response	Duration / Fetch Time
9	14:46:39	CREATE TABLE Works_on ( Essn CHAR(9) NOT NULL, Pno INT NOT NULL, Hours DECIMAL(3,1) )	0 row(s) affected	0.0096 sec
10	14:46:57	CREATE TABLE Dependent ( Essn CHAR(9) NOT NULL, Dependent_name VARCHAR(15) )	0 row(s) affected	0.011 sec
11	14:47:03	INSERT INTO Department (Dname, Dnumber, Mgr_ssn, Mgr_start_date) VALUES ('Resear...	3 row(s) affected	0.0065 sec
12	14:47:30	INSERT INTO Employee (Fname, Minit, Lname, Ssn, Bdate, Adm_no) VALUES ('John', 'M', 'Doe', '1234567890', '1950-01-01', 1)	8 row(s) affected	0.0026 sec
13	14:49:58	SELECT * FROM Department LIMIT 0, 1000	3 row(s) returned	0.00061 sec / 0.0000...

Query Completed

MySQL Workbench

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS

Filter objects

189  
190 • SELECT \* FROM Department;  
191  
192 • UPDATE Department  
SET  
    Mgr\_ssn = '333445555'  
WHERE  
    Dnumber = 5;  
197  
198 • UPDATE Department  
SET  
    Mgr\_ssn = '987654321'  
WHERE  
    Dnumber = 4;  
203  
204 • UPDATE Department  
SET  
    Mgr\_ssn = '888665555'  
WHERE  
    Dnumber = 1;  
209  
210 • SELECT \* FROM Department;  
211

100% 26:210

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid

Dname	Dnumber	Mgr_ssn	Mgr_start_d...
Headquarters	1	888665555	1981-06-19
Administration	4	987654321	1995-01-01
Research	5	333445555	1988-05-22
NULL	NULL	NULL	NULL
Department 2			

Action Output

Time	Action	Response	Duration / Fetch Time
14:49:58	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00061 sec / 0.0000...
14:50:18	UPDATE Department SET Mgr_ssn = '333445555' WHERE Dnumber = 5	1 row(s) aff...	0.0012 sec
14:50:30	UPDATE Department SET Mgr_ssn = '987654321' WHERE Dnumber = 4	1 row(s) aff...	0.0014 sec
14:50:34	UPDATE Department SET Mgr_ssn = '888665555' WHERE Dnumber = 1	1 row(s) aff...	0.0015 sec
14:50:46	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00059 sec / 0.000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175 |

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
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  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```
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);

INSERT INTO Works_on (Esn, Pno, Hours)
VALUES
    ('123456789', 1, 32.5),
    ('123456789', 2, 7.5),
    ('666884444', 3, 40.0),
    ('453453453', 1, 20.0),
    ('453453453', 2, 20.0),
    ('333445555', 2, 10.0),
    ('333445555', 3, 10.0),
    ('333445555', 10, 10.0),
    ('333445555', 20, 10.0),
    ('999887777', 30, 30.0),
    ('999887777', 10, 10.0),
    ('987987987', 10, 35.0),
    ('987987987', 30, 5.0),
    ('987654321', 30, 20.0),
    ('987654321', 20, 15.0),
    ('888665555', 20, 12.0);
```

100% 1:309

Action Output

	Time	Action	Response	Duration / Fetch Time
17	14:50:46	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00059 sec / 0.000...
18	14:51:43	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellaire', 5)	6 row(s) aff...	0.0020 sec
19	14:51:49	INSERT INTO Works_on (Esn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('123456789', 2, 7.5)	16 row(s) af...	0.0033 sec
20	14:52:01	INSERT INTO DEPENDENT (Esn, Dependent_name, Sex, Bdate, R...) VALUES ('666884444', 'John Doe', 'M', '1980-01-01', '100')	7 row(s) aff...	0.0030 sec
21	14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford')	5 row(s) aff...	0.0022 sec

Query Completed

MySQL Workbench

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS Filter objects

Basic Bus\_Station Lab\_3 Lab\_4 lab\_5 Tables Views Stored Pr... Functions Sample sys TechCo

INSERT INTO DEPENDENT (Essn, Dependent\_name, Sex, Bdate, Relationship)

VALUES

(  
'333445555',  
'Alice',  
'F',  
'1986-04-04',  
'Daughter'  
,  
(  
'333445555',  
'Theodore',  
'M',  
'1983-10-25',  
'Son'  
,  
(  
'333445555',  
'Joy',  
'F',  
'1958-05-03',  
'Spouse'  
,  
)

Action Output

	Time	Action	Response	Duration / Fetch Time
17	14:50:46	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00059 sec / 0.000...
18	14:51:43	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellair...',	6 row(s) aff...	0.0020 sec
19	14:51:49	INSERT INTO Works_on (Essn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('12345678...',	16 row(s) af...	0.0033 sec
20	14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, R...	7 row(s) aff...	0.0030 sec
21	14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford...',	5 row(s) aff...	0.0022 sec

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- < lab\_5
  - > Tables
  - Views
  - Stored Pr...
  - Functions
- > Sample
- > sys
- > TechCo

```

'Spouse'
),
(
  '987654321',
  'Abner',
  'M',
  '1942-02-28',
  'Spouse'
),
(
  '123456789',
  'Michael',
  'M',
  '1988-01-04',
  'Son'
),
(
  '123456789',
  'Alice',
  'F',
  '1988-12-30',
  'Daughter'
),
(
  '123456789',
  'Elizabeth',
  'F',
  '1967-05-05',
  'Spouse'
);
  
```

100% 1:309

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 17	14:50:46	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00059 sec / 0.000...
✓ 18	14:51:43	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellair...	6 row(s) aff...	0.0020 sec
✓ 19	14:51:49	INSERT INTO Works_on (Esn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('12345678...	16 row(s) af...	0.0033 sec
✓ 20	14:52:01	INSERT INTO DEPENDENT ( Esn, Dependent_name, Sex, Bdate, R... ) VALUES ('123456789', 'Alice', 'F', '1988-12-30', 1)	7 row(s) aff...	0.0030 sec
✓ 21	14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford...')	5 row(s) aff...	0.0022 sec

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

**Administration Schemas**

**SCHEMAS**

Filter objects

```

291
292
293   (
294       '123456789',
295       'Elizabeth',
296       'F',
297       '1967-05-05',
298       'Spouse'
299   );
300
301 • INSERT INTO
302     Dept_locations (Dnumber, Dlocation)
303 VALUES
304     (1, 'Houston'),
305     (4, 'Stafford'),
306     (5, 'Bellaire'),
307     (5, 'Houston'),
308     (5, 'Sugarland');
309
310
311 • SELECT * FROM Employee;

```

Result Grid

Fname	Minit	Iname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
John	B	Smith	123456789	1965-01-09	731 Fondren, Houston TX	M	30000.00	333445555	5
Franklin	T	Wong	333445555	1965-12-08	638 Voss, Houston TX	M	40000.00	888665555	5
Joyce	A	English	453453453	1972-07-31	5631 Rice, Houston TX	F	25000.00	333445555	5
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble TX	M	38000.00	333445555	5
James	E	Borg	888665555	1937-11-10	450 Stone, Houston TX	M	55000.00	NULL	1
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire TX	F	43000.00	888665555	4
Ahmad	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston TX	M	25000.00	987654321	4
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring TX	F	25000.00	987654321	4
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Employee 3

Action Output

Time	Action	Response	Duration / Fetch Time
18 14:51:43	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellair...', 6 row(s) aff...	6 row(s) aff...	0.0020 sec
19 14:51:49	INSERT INTO Works_on (Essh, Pno, Hours) VALUES ('123456789', 1, 32.5), ('12345678...', 16 row(s) aff...	16 row(s) aff...	0.0033 sec
20 14:52:01	INSERT INTO DEPENDENT ( Essh, Dependent_name, Sex, Bdate, R... 7 row(s) aff...	7 row(s) aff...	0.0030 sec
21 14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford...', 5 row(s) aff...	5 row(s) aff...	0.0022 sec
22 14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) ret...	0.00075 sec / 0.0000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 SQL Divyansh Kumar Singh 590012175 Lab 3 SQL Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS

Filter objects

> Basic  
> Bus\_Station  
> Lab\_3  
> Lab\_4  
v lab\_5  
> Tables  
> Views  
> Stored Pr...  
> Functions  
> Sample  
> sys  
> TechCo

'Elizabeth',  
'F',  
'1967-05-05',  
'Spouse'  
);  
301 • INSERT INTO  
Dept\_locations (Dnumber, Dlocation)  
VALUES  
(1, 'Houston'),  
(4, 'Stafford'),  
(5, 'Bellaire'),  
(5, 'Houston'),  
(5, 'Sugarland');  
309  
310  
311 • SELECT \* FROM Employee;  
312  
313 • SELECT \* FROM Project;|

100% 23:313

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor

Pname	Pnumber	Plocation	Dnum
ProductX	1	Bellaire	5
ProductY	2	Sugarland	5
ProductZ	3	Houston	5
Computerization	10	Stafford	4
Reorganization	20	Houston	1
Newbenefits	30	Stafford	4
NULL	NULL	NULL	NULL

Project 4 Apply Revert

Action Output

Time	Action	Response	Duration / Fetch Time
19 14:51:49	INSERT INTO Works_on (Essn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('12345678...', 16 row(s) affected)	0.0033 sec	
20 14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, R...	7 row(s) affected	0.0030 sec
21 14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford...', 5 row(s) affected)	0.0022 sec	
22 14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) returned	0.00075 sec / 0.0000...
23 14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) returned	0.00085 sec / 0.000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

**Administration Schemas**

**SCHEMAS**

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- < lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

**SQL File 4**

```

301
302
303 VALUES
304     (1, 'Houston'),
305     (4, 'Stafford'),
306     (5, 'Bellaire'),
307     (5, 'Houston'),
308     (5, 'Sugarland');
309
310
311 •   SELECT * FROM Employee;
312
313 •   SELECT * FROM Project;
314
315 •   SELECT * FROM Works_on;
316
  
```

100% | 24:315

**Result Grid**

Essn	Pno	Hours	
123456789	1	32.5	
123456789	2	7.5	
333445555	2	10.0	
333445555	3	10.0	
333445555	10	10.0	
333445555	20	10.0	
453453453	1	20.0	
453453453	2	20.0	
666884444	3	40.0	
888665555	20	12.0	
987654321	20	15.0	
987654321	30	20.0	
987987987	10	35.0	
987987987	30	5.0	
999887777	10	10.0	
999887777	30	30.0	
NULL	NULL	NULL	

Works\_on 5

**Action Output**

	Time	Action	Response	Duration / Fetch Time
✓	20 14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, R...) 7 row(s) aff...	7 row(s) affected	0.0030 sec
✓	21 14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford') 5 row(s) affected	5 row(s) affected	0.0022 sec
✓	22 14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) returned	0.00075 sec / 0.0000...
✓	23 14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) returned	0.00085 sec / 0.000...
✓	24 14:54:19	SELECT * FROM Works_on LIMIT 0, 1000	16 row(s) returned	0.00054 sec / 0.000...

Query Completed

MySQL Workbench

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Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

Schemas Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- < lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

1, 'Houston'),  
305 (4, 'Stafford'),  
306 (5, 'Bellaire'),  
307 (5, 'Houston'),  
308 (5, 'Sugarland');  
309  
310  
311 • SELECT \* FROM Employee;  
312  
313 • SELECT \* FROM Project;  
314  
315 • SELECT \* FROM Works\_on;  
316  
317 • SELECT \* FROM DEPENDENT;  
318

100% 25:31 Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor Field Types

Essn	Dependent_name	Sex	Bdate	Relationship
123456789	Alice	F	1988-12-30	Daughter
123456789	Elizabeth	F	1967-05-05	Spouse
123456789	Michael	M	1988-01-04	Son
333445555	Alice	F	1986-04-04	Daughter
333445555	Joy	F	1958-05-03	Spouse
333445555	Theodore	M	1983-10-25	Son
987654321	Abner	M	1942-02-28	Spouse
NULL	NULL	NULL	NULL	NULL

DEPENDENT 6 Apply Revert

Action Output

Time	Action	Response	Duration / Fetch Time
10 14:51:45	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductA', 1, 'Bellaire', 1)	0 row(s) aff... 0.0020 sec	
19 14:51:49	INSERT INTO Works_on (Essn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('123456789', 2, 32.5)	16 row(s) aff... 0.0033 sec	
20 14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, Relationship)	7 row(s) aff... 0.0030 sec	
21 14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford')	5 row(s) aff... 0.0022 sec	
22 14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) ret... 0.00075 sec / 0.0000...	
23 14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) ret... 0.00085 sec / 0.000...	
24 14:54:19	SELECT * FROM Works_on LIMIT 0, 1000	16 row(s) ret... 0.00054 sec / 0.000...	
25 14:54:35	SELECT * FROM DEPENDENT LIMIT 0, 1000	7 row(s) ret... 0.00072 sec / 0.0000...	

Query Completed

MySQL Workbench

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS Filter objects

> Basic  
> Bus\_Station  
> Lab\_3  
> Lab\_4  
lab\_5  
> Tables  
> Views  
> Stored Pr...  
> Functions  
> Sample  
> sys  
> TechCo

307 (5, 'Houston'),  
308 (5, 'Sugarland');  
310  
311 • SELECT \* FROM Employee;  
312  
313 • SELECT \* FROM Project;  
314  
315 • SELECT \* FROM Works\_on;  
316  
317 • SELECT \* FROM DEPENDENT;  
318  
319 • SELECT \* FROM Dept\_locations;  
320  
321

100% 30:39

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor Field Types

Dnumber	Dlocation
1	Houston
4	Stafford
5	Bellaire
5	Houston
5	Sugarland
NULL	NULL

Dept\_locations 7 Apply Revert

Action Output

Time	Action	Response	Duration / Fetch Time
14:51:49	INSERT INTO WORKS_ON (ESSN, Proj, Hours) VALUES (123456789, 1, 32.5), (123456789, 2, 32.5)	10 row(s) aff...	0.0055 sec
14:52:01	INSERT INTO DEPENDENT (Esn, Dependent_name, Sex, Bdate, R...) VALUES (1, 'Houston'), (4, 'Stafford')	7 row(s) aff...	0.0030 sec
14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford')	5 row(s) aff...	0.0022 sec
14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) ret...	0.00075 sec / 0.000...
14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) ret...	0.00085 sec / 0.000...
14:54:19	SELECT * FROM Works_on LIMIT 0, 1000	16 row(s) ret...	0.00054 sec / 0.000...
14:54:35	SELECT * FROM DEPENDENT LIMIT 0, 1000	7 row(s) ret...	0.00072 sec / 0.000...
14:54:52	SELECT * FROM Dept_locations LIMIT 0, 1000	5 row(s) ret...	0.00048 sec / 0.000...

Query Completed

MySQL Workbench

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**Administration Schemas**

SCHEMAS

Filter objects

```

322 -- Question 4
323 • CREATE TABLE CLIENT_MASTER (
324     CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENTNO LIKE 'C%'),
325     NAME VARCHAR(20) NOT NULL,
326     ADDRESS1 VARCHAR(30),
327     ADDRESS2 VARCHAR(30),
328     CITY VARCHAR(15),
329     PINCODE INT,
330     STATE VARCHAR(15),
331     BALDUE DECIMAL(10, 2)
332 );
333
334 • CREATE TABLE PRODUCT_MASTER (
335     PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PRODUCTNO LIKE 'P%'),
336     DESCRIPTION VARCHAR(15) NOT NULL,
337     PROFITPERCENT DECIMAL(4, 2) NOT NULL,
338     UNIT_MEASURE VARCHAR(10) NOT NULL,
339     QTYONHAND INT NOT NULL,
340     REORDERLVL INT NOT NULL,
341     SELLPRICE DECIMAL(8, 2) NOT NULL,
342     COSTPRICE DECIMAL(8, 2) NOT NULL
343 );
344

```

100% | 39:347 |

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 16	14:50:34	UPDATE Department SET Mgr_ssn = '888665555' WHERE Dnumber = 1	1 row(s) aff...	0.0015 sec
✓ 17	14:50:46	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00059 sec / 0.000...
✓ 18	14:51:43	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellair...', 1)	6 row(s) aff...	0.0020 sec
✓ 19	14:51:49	INSERT INTO Works_on (Essn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('12345678...', 2, 32.5)	16 row(s) aff...	0.0033 sec
✓ 20	14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, R...) VALUES ('123456789', 'John Doe', 'M', '1980-01-01', 1)	7 row(s) aff...	0.0030 sec
✓ 21	14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (2, 'Stafford...'), (3, 'Dallas')	5 row(s) aff...	0.0022 sec
✓ 22	14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) ret...	0.00075 sec / 0.000...
✓ 23	14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) ret...	0.00085 sec / 0.000...
✓ 24	14:54:19	SELECT * FROM Works_on LIMIT 0, 1000	16 row(s) ret...	0.00054 sec / 0.000...
✓ 25	14:54:35	SELECT * FROM DEPENDENT LIMIT 0, 1000	7 row(s) ret...	0.00072 sec / 0.000...
✓ 26	14:54:52	SELECT * FROM Dept_locations LIMIT 0, 1000	5 row(s) ret...	0.00048 sec / 0.000...
✓ 27	14:57:43	CREATE TABLE CLIENT_MASTER (CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENTNO LIKE 'C%'))	0 row(s) aff...	0.0074 sec
✓ 28	14:57:46	CREATE TABLE PRODUCT_MASTER (PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PRODUCTNO LIKE 'P%'))	0 row(s) aff...	0.0092 sec
✓ 29	14:57:50	CREATE TABLE SALESMAN_MASTER (SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (SALESMANNO LIKE 'S%'))	0 row(s) aff...	0.0097 sec

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 | Divyansh Kumar Singh 590012175 Lab 3 | Divyansh Kumar Singh 590012175 Lab 4 | >

**SCHEMAS**

Basic, Bus\_Station, Lab\_3, Lab\_4, **lab\_5** (Tables, Views, Stored Procs, Functions), Sample, sys, TechCo

```

334  );
335
336      DESCRIPTION VARCHAR(15) NOT NULL,
337      PROFITPERCENT DECIMAL(4, 2) NOT NULL,
338      UNIT_MEASURE VARCHAR(10) NOT NULL,
339      QTYONHAND INT NOT NULL,
340      REORDERLVL INT NOT NULL,
341      SELLPRICE DECIMAL(8, 2) NOT NULL,
342      COSTPRICE DECIMAL(8, 2) NOT NULL
343  );
344
345  CREATE TABLE SALESMAN_MASTER (
346      SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (SALESMANNO LIKE 'S%'),
347      SALESMANNAME VARCHAR(20) NOT NULL,
348      ADDRESS1 VARCHAR(30) NOT NULL,
349      ADDRESS2 VARCHAR(30),
350      CITY VARCHAR(20),
351      PINCODE INT,
352      STATE VARCHAR(20),
353      SALAMT DECIMAL(8, 2) NOT NULL CHECK (SALAMT < 0),
354      TGTTTOGET DECIMAL(6, 2) NOT NULL CHECK (TGTTTOGET < 0),
355      YTDSALES DECIMAL(6, 2) NOT NULL,
356      REMARKS VARCHAR(60)
357  );
358

```

100% | 39:347 | Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 16	14:50:34	UPDATE Department SET Mgr_ssn = '888665555' WHERE Dnumber = 1	1 row(s) aff...	0.0015 sec
✓ 17	14:50:46	SELECT * FROM Department LIMIT 0, 1000	3 row(s) ret...	0.00059 sec / 0.000...
✓ 18	14:51:43	INSERT INTO Project (Pname, Pnumber, Plocation, Dnum) VALUES ('ProductX', 1, 'Bellair...', 1)	6 row(s) aff...	0.0020 sec
✓ 19	14:51:49	INSERT INTO Works_on (Essn, Pno, Hours) VALUES ('123456789', 1, 32.5), ('12345678...', 16)	16 row(s) af...	0.0033 sec
✓ 20	14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, R..., 7)	7 row(s) aff...	0.0030 sec
✓ 21	14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford...')	5 row(s) aff...	0.0022 sec
✓ 22	14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) ret...	0.00075 sec / 0.000...
✓ 23	14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) ret...	0.00085 sec / 0.000...
✓ 24	14:54:19	SELECT * FROM Works_on LIMIT 0, 1000	16 row(s) re...	0.00054 sec / 0.000...
✓ 25	14:54:35	SELECT * FROM DEPENDENT LIMIT 0, 1000	7 row(s) ret...	0.00072 sec / 0.000...
✓ 26	14:54:52	SELECT * FROM Dept_locations LIMIT 0, 1000	5 row(s) ret...	0.00048 sec / 0.000...
✓ 27	14:57:43	CREATE TABLE CLIENT_MASTER (CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENTNO > 0))	0 row(s) aff...	0.0074 sec
✓ 28	14:57:46	CREATE TABLE PRODUCT_MASTER (PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PRODUCTNO > 0))	0 row(s) aff...	0.0092 sec
✓ 29	14:57:50	CREATE TABLE SALESMAN_MASTER (SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (SALESMANNO > 0))	0 row(s) aff...	0.0097 sec

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- > lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

    NULL
),
(
  567   'S0004',
  568   'Ashish',
  569   'A/5 Juhu',
  570   NULL,
  571   'Mumbai',
  572   400044,
  573   'Maharashtra',
  574   3500,
  575   120,
  576   55,
  577   NULL
);
  
```

580 • SELECT NAME FROM CLIENT\_MASTER;

100% 32:580

**Result Grid** Filter Rows: Search Export: Result Grid Form Editor

NAME
Ivan bayross
Mamta muzumdar
Chhaya bankar
Ashwini joshi
Hansel colaco
Deepak sharma

CLIENT\_MASTER 8

Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 20	14:52:01	INSERT INTO DEPENDENT (Essn, Dependent_name, Sex, Bdate, R...	7 row(s) aff...	0.0030 sec
✓ 21	14:52:10	INSERT INTO Dept_locations (Dnumber, Dlocation) VALUES (1, 'Houston'), (4, 'Stafford...	5 row(s) aff...	0.0022 sec
✓ 22	14:53:55	SELECT * FROM Employee LIMIT 0, 1000	8 row(s) ret...	0.00075 sec / 0.000...
✓ 23	14:54:10	SELECT * FROM Project LIMIT 0, 1000	6 row(s) ret...	0.00085 sec / 0.000...
✓ 24	14:54:19	SELECT * FROM Works_on LIMIT 0, 1000	16 row(s) re...	0.00054 sec / 0.000...
✓ 25	14:54:35	SELECT * FROM DEPENDENT LIMIT 0, 1000	7 row(s) ret...	0.00072 sec / 0.000...
✓ 26	14:54:52	SELECT * FROM Dept_locations LIMIT 0, 1000	5 row(s) ret...	0.00048 sec / 0.000...
✓ 27	14:57:43	CREATE TABLE CLIENT_MASTER (CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENT...	0 row(s) aff...	0.0074 sec
✓ 28	14:57:46	CREATE TABLE PRODUCT_MASTER (PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PR...	0 row(s) aff...	0.0092 sec
✓ 29	14:57:50	CREATE TABLE SALESMAN_MASTER (SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (...)	0 row(s) aff...	0.0097 sec
✓ 30	14:59:21	INSFRT INTO CLIENT_MASTER /	6 row(s) aff	0.0034 sec

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- < lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

567      'S00004',
568      'Ashish',
569      'A/5 Juhu',
570      NULL,
571      'Mumbai',
572      400044,
573      'Maharashtra',
574      3500,
575      120,
576      55,
577      NULL
578    );
579
580 •   SELECT NAME FROM CLIENT_MASTER;
581
582 •   SELECT * FROM CLIENT_MASTER;
583
  
```

100% 29:582

**Result Grid** Filter Rows: Search Edit: Export/Import: Result Grid Form Editor

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C00001	Ivan bayross	NULL	NULL	Mumbai	400054	Maharashtra	15000.00
C00002	Marita muzumdar	NULL	NULL	Madras	780001	Tamil Nadu	0.00
C00003	Chhaya bankar	NULL	NULL	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini joshi	NULL	NULL	Bangalore	560001	Karnataka	0.00
C00005	Hansel colaco	NULL	NULL	Mumbai	400060	Maharashtra	2000.00
C00006	Deepak sharma	NULL	NULL	Mangalore	560050	Karnataka	0.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

CLIENT\_MASTER 9

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 25	14:54:35	SELECT * FROM DEPENDENT LIMIT 0, 1000	7 row(s) ret...	0.00072 sec / 0.0000...
✓ 26	14:54:52	SELECT * FROM Dept_locations LIMIT 0, 1000	5 row(s) ret...	0.00048 sec / 0.000...
✓ 27	14:57:43	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENT...	0 row(s) aff...	0.0074 sec
✓ 28	14:57:46	CREATE TABLE PRODUCT_MASTER ( PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PR...	0 row(s) aff...	0.0092 sec
✓ 29	14:57:50	CREATE TABLE SALESMAN_MASTER ( SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (...	0 row(s) aff...	0.0097 sec
✓ 30	14:59:21	INSERT INTO CLIENT_MASTER ( CLIENTNO, NAME, CITY, PINCODE,...	6 row(s) aff...	0.0034 sec
✓ 31	14:59:33	INSERT INTO PRODUCT_MASTER VALUES ( 'P00001', 'T-Shirt', 5, 'Pie...	9 row(s) aff...	0.0059 sec
✓ 32	14:59:44	INSERT INTO SALESMAN_MASTER ( SALESMANNO, SALESMANNAME, ADD...	4 row(s) aff...	0.0025 sec
✓ 33	15:02:09	SELECT NAME FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) ret...	0.0011 sec / 0.0000...
✓ 34	15:02:25	SELECT * FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) ret...	0.0015 sec / 0.0000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

569      'A/5 Juhu',
570      NULL,
571      'Mumbai',
572      400044,
573      'Maharashtra',
574      3500,
575      120,
576      55,
577      NULL
578    );
579
580 •   SELECT NAME FROM CLIENT_MASTER;
581
582 •   SELECT * FROM CLIENT_MASTER;
583
584 •   SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
585
  
```

100% 45:584

**Result Grid** Filter Rows: Search Export:

NAME	CITY	STATE
Ivan bayross	Mumbai	Maharashtra
Mamta muzumdar	Madras	Tamil Nadu
Chhaya bankar	Mumbai	Maharashtra
Ashwini joshi	Bangalore	Karnataka
Hansel colaco	Mumbai	Maharashtra
Deepak sharma	Mangalore	Karnataka

CLIENT\_MASTER 10 Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 26	14:54:52	SELECT * FROM Dept_locations LIMIT 0, 1000	5 row(s) ret...	0.00048 sec / 0.000...
✓ 27	14:57:43	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENT...)	0 row(s) aff...	0.0074 sec
✓ 28	14:57:46	CREATE TABLE PRODUCT_MASTER ( PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PR...	0 row(s) aff...	0.0092 sec
✓ 29	14:57:50	CREATE TABLE SALESMAN_MASTER ( SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (...)	0 row(s) aff...	0.0097 sec
✓ 30	14:59:21	INSERT INTO CLIENT_MASTER ( CLIENTNO, NAME, CITY, PINCODE,...	6 row(s) aff...	0.0034 sec
✓ 31	14:59:33	INSERT INTO PRODUCT_MASTER VALUES ( 'P00001', 'T-Shirt', 5, 'Pie...	9 row(s) aff...	0.0059 sec
✓ 32	14:59:44	INSERT INTO SALESMAN_MASTER ( SALESMANNO, SALESMANNAME, ADD...	4 row(s) aff...	0.0025 sec
✓ 33	15:02:09	SELECT NAME FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) ret...	0.0011 sec / 0.00000...
✓ 34	15:02:25	SELECT * FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) ret...	0.0015 sec / 0.00000...
✓ 35	15:02:32	SELECT NAME, CITY, STATE FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) ret...	0.00064 sec / 0.000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Diwansh Kumar Singh 590012175 Lab 3 Diwansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- > lab\_5
  - > Tables
  - > Views
  - Stored Pr...
  - Functions
- > Sample
- > sys
- > TechCo

```

571      'Mumbai',
572      400044,
573      'Maharashtra',
574      3500,
575      120,
576      55,
577      NULL
578    );
579
580 •   SELECT NAME FROM CLIENT_MASTER;
581
582 •   SELECT * FROM CLIENT_MASTER;
583
584 •   SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
585
586 •   SELECT DESCRIPTION FROM PRODUCT_MASTER;
  
```

100% | 40:586 |

**Result Grid** Filter Rows: Search Export:

DESCRIPTION
T-Shirt
Shirts
Cotton jeans
Jeans
Trousers
Pull Overs
Denim jeans
Lycra tops
Skirts

PRODUCT\_MASTER 11 | Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 27	14:57:43	CREATE TABLE CLIENT_MASTER ( CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENT...)	0 row(s) aff...	0.0074 sec
✓ 28	14:57:46	CREATE TABLE PRODUCT_MASTER ( PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PR...	0 row(s) aff...	0.0092 sec
✓ 29	14:57:50	CREATE TABLE SALESMAN_MASTER ( SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (...)	0 row(s) aff...	0.0097 sec
✓ 30	14:59:21	INSERT INTO CLIENT_MASTER ( CLIENTNO, NAME, CITY, PINCODE,...	6 row(s) aff...	0.0034 sec
✓ 31	14:59:33	INSERT INTO PRODUCT_MASTER VALUES ( 'P00001', 'T-Shirt', 5, 'Pie...	9 row(s) aff...	0.0059 sec
✓ 32	14:59:44	INSERT INTO SALESMAN_MASTER ( SALESMANNO, SALESMANNAME, ADD...	4 row(s) aff...	0.0025 sec
✓ 33	15:02:09	SELECT NAME FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) ret...	0.0011 sec / 0.00000...
✓ 34	15:02:25	SFI FCT * FROM CI IFNT MASTER LIMIT 0, 1000	6 row(s) ref...	0.0015 sec / 0.00000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 SQL Divyansh Kumar Singh 590012175 Lab 3 SQL Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

Filter objects

```

574      3500,
575      120,
576      55,
577      NULL
578    );
579
580 *   SELECT NAME FROM CLIENT_MASTER;
581 *
582 *   SELECT * FROM CLIENT_MASTER;
583
584 *   SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
585
586 *   SELECT DESCRIPTION FROM PRODUCT_MASTER;
587
588 *   SELECT * FROM CLIENT_MASTER
589 WHERE CITY = 'Mumbai';
  
```

100% 23:589

**Result Grid** Filter Rows: Search Edit: Export/Import: Result Grid

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C00001	Ivan bayross	NULL	NULL	Mumbai	400054	Maharashtra	15000.00
C00003	Chhaya bankar	NULL	NULL	Mumbai	400057	Maharashtra	5000.00
C00005	Hansel colaco	NULL	NULL	Mumbai	400060	Maharashtra	2000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

CLIENT\_MASTER 12 Apply Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 31	14:59:33	INSERT INTO PRODUCT_MASTER VALUES ( 'P00001', 'T-Shirt', 5, 'Pie... )	9 row(s) affected	0.0059 sec
✓ 32	14:59:44	INSERT INTO SALESMAN_MASTER ( SALESMANNO, SALESMANNAME, ADD... )	4 row(s) affected	0.0025 sec
✓ 33	15:02:09	SELECT NAME FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) returned	0.0011 sec / 0.0000...
✓ 34	15:02:25	SELECT * FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) returned	0.0015 sec / 0.0000...
✓ 35	15:02:32	SELECT NAME, CITY, STATE FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) returned	0.00064 sec / 0.000...
✓ 36	15:02:39	SELECT DESCRIPTION FROM PRODUCT_MASTER LIMIT 0, 1000	9 row(s) returned	0.00079 sec / 0.000...
✓ 37	15:02:56	SELECT * FROM CLIENT_MASTER WHERE CITY = 'Mumbai' LIMIT 0, 1000	3 row(s) returned	0.00056 sec / 0.000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS

Filter objects

Basic Bus\_Station Lab\_3 Lab\_4 lab\_5 Tables Views Stored Pr... Functions Sample sys TechCo

NULL  
);  
579  
580 • SELECT NAME FROM CLIENT\_MASTER;  
581  
582 • SELECT \* FROM CLIENT\_MASTER;  
583  
584 • SELECT NAME, CITY, STATE FROM CLIENT\_MASTER;  
585  
586 • SELECT DESCRIPTION FROM PRODUCT\_MASTER;  
587  
588 • SELECT \* FROM CLIENT\_MASTER  
WHERE CITY = 'Mumbai';  
590  
591 • SELECT SALESMANNAME FROM SALESMAN\_MASTER  
WHERE SALAMT = 3000;

100% 21:592

Result Grid Filter Rows: Search Export: Result Grid Form Editor Field Types

SALESMANNAME
Aman
Raj

SALESMAN\_MASTER 13

Action Output

	Time	Action	Response	Duration / Fetch Time
32	14:59:44	INSERT INTO SALESMAN_MASTER ( SALESMANNO, SALESMANNAME, ADD... ) VALUES ( 1000, 'Aman', 'Mumbai' )	4 row(s) affected	0.0025 sec
33	15:02:09	SELECT NAME FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) returned	0.0011 sec / 0.00000...
34	15:02:25	SELECT * FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) returned	0.0015 sec / 0.00000...
35	15:02:32	SELECT NAME, CITY, STATE FROM CLIENT_MASTER LIMIT 0, 1000	6 row(s) returned	0.00064 sec / 0.0000...
36	15:02:39	SELECT DESCRIPTION FROM PRODUCT_MASTER LIMIT 0, 1000	9 row(s) returned	0.00079 sec / 0.0000...
37	15:02:56	SELECT * FROM CLIENT_MASTER WHERE CITY = 'Mumbai' LIMIT 0, 1000	3 row(s) returned	0.00056 sec / 0.0000...
38	15:03:05	SELECT SALESMANNAME FROM SALESMAN_MASTER WHERE SALAMT = 3000 LIMIT 0, 1000	2 row(s) returned	0.00083 sec / 0.0000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 SQL Divyansh Kumar Singh 590012175 Lab 3 SQL Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- > lab\_5
  - > Tables
  - > Views
  - > Stored Pr...
  - > Functions
- > Sample
- > sys
- > TechCo

```

UPDATE CLIENT_MASTER
SET CITY = 'Bangalore'
WHERE CLIENTNO = 'C00005';

UPDATE CLIENT_MASTER
SET BALDUE = 1000
WHERE CLIENTNO = 'C00001';

SET SQL_SAFE_UPDATES = 0;

604 • UPDATE PRODUCT_MASTER
605 SET COSTPRICE = 950
606 WHERE DESCRIPTION = 'Trousers';
607
608 • UPDATE SALESMAN_MASTER
609 SET CITY = 'Pune';
610
611 • DELETE FROM SALESMAN_MASTER
612 WHERE SALAMT = 3500;
613
614 • DELETE FROM PRODUCT_MASTER
615 WHERE QTYONHAND = 100;
616
617 • DELETE FROM CLIENT_MASTER
618 WHERE STATE = 'Tamil Nadu';
619
620 • ALTER TABLE CLIENT_MASTER
621 ADD Telephone BIGINT;
622
  
```

100% | 1:628 |

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 39	15:03:21	UPDATE CLIENT_MASTER SET CITY = 'Bangalore'...	1 row(s) affected Rows matched: 1 Changed: 1 Warning: 0	0.0022 sec
✓ 40	15:03:26	UPDATE CLIENT_MASTER SET BALDUE = 1000 W...	1 row(s) affected Rows matched: 1 Changed: 1 Warning: 0	0.0024 sec
✗ 41	15:03:29	UPDATE PRODUCT_MASTER SET COSTPRICE = 9...	Error Code: 1175. You are using safe update mode and y...	0.00084 sec
✓ 42	15:04:38	SET SQL_SAFE_UPDATES = 0	0 row(s) affected	0.00024 sec
✓ 43	15:04:41	UPDATE PRODUCT_MASTER SET COSTPRICE = 9...	1 row(s) affected Rows matched: 1 Changed: 1 Warning: 0	0.0024 sec
✓ 44	15:04:44	SET SQL_SAFE_UPDATES = 1	0 row(s) affected	0.00037 sec
✗ 45	15:04:51	UPDATE SALESMAN_MASTER SET CITY = 'Pune'	Error Code: 1175. You are using safe update mode and y...	0.00062 sec
✓ 46	15:05:05	SET SQL_SAFE_UPDATES = 0	0 row(s) affected	0.00026 sec

Query Completed

## MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 SQL File 4 Divyansh Kumar Singh 590012175 Lab 4

**SCHEMAS**

Filter objects

- > Basic
- > Bus\_Station
- > Lab\_3
- > Lab\_4
- lab\_5
  - > Tables
  - Views
  - Stored Pr...
  - Functions
- > Sample
- > sys
- > TechCo

```

UPDATE CLIENT_MASTER
SET CITY = 'Bangalore'
WHERE CLIENTNO = 'C00005';

UPDATE CLIENT_MASTER
SET BALDUE = 1000
WHERE CLIENTNO = 'C00001';

SET SQL_SAFE_UPDATES = 0;

604 • UPDATE PRODUCT_MASTER
605 SET COSTPRICE = 950
606 WHERE DESCRIPTION = 'Trousers';
607
608 • UPDATE SALESMAN_MASTER
609 SET CITY = 'Pune';
610
611 • DELETE FROM SALESMAN_MASTER
612 WHERE SALAMT = 3500;
613
614 • DELETE FROM PRODUCT_MASTER
615 WHERE QTYONHAND = 100;
616
617 • DELETE FROM CLIENT_MASTER
618 WHERE STATE = 'Tamil Nadu';
619
620 • ALTER TABLE CLIENT_MASTER
621 ADD Telephone BIGINT;
622
  
```

100% 1:628

Action Output

	Time	Action	Response	Duration / Fetch Time
✗ 45	15:04:51	UPDATE SALESMAN_MASTER SET CITY = 'Pune'	Error Code: 1175. You are using safe update mode and y... 0 row(s) affected	0.00062 sec 0.00026 sec
✓ 46	15:05:05	SET SQL_SAFE_UPDATES = 0		
✓ 47	15:05:09	UPDATE SALESMAN_MASTER SET CITY = 'Pune'	4 row(s) affected Rows matched: 4 Changed: 4 Warni... 0.0015 sec	
✓ 48	15:05:12	DELETE FROM SALESMAN_MASTER WHERE SALA...	2 row(s) affected	0.0019 sec
✓ 49	15:05:18	DELETE FROM PRODUCT_MASTER WHERE QTYO...	3 row(s) affected	0.0014 sec
✓ 50	15:05:21	DELETE FROM CLIENT_MASTER WHERE STATE = '...	1 row(s) affected	0.0010 sec
✓ 51	15:05:25	ALTER TABLE CLIENT_MASTER ADD Telephone Bi...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.0071 sec	
✓ 52	15:05:28	ALTER TABLE PRODUCT_MASTER MODIFY SELLP...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0 0.021 sec	

Query Completed

## MySQL Workbench

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

**SCHEMAS**

Filter objects

```

DELETE FROM SALESMAN_MASTER
WHERE SALAMT = 3500;

613
614 • DELETE FROM PRODUCT_MASTER
615 WHERE QTYONHAND = 100;
616
617 • DELETE FROM CLIENT_MASTER
618 WHERE STATE = 'Tamil Nadu';
619
620 • ALTER TABLE CLIENT_MASTER
621 ADD Telephone BIGINT;
622
623 • ALTER TABLE PRODUCT_MASTER
624 MODIFY SELLPRICE DECIMAL(10, 2);
625
626 • DROP TABLE CLIENT_MASTER;
627
628 • SELECT * FROM PRODUCT_MASTER;
  
```

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
P00001	T-Shirt	5.00	Piece	200	50	350.00	250.00
P0345	Shirts	6.00	Piece	150	50	500.00	350.00
P07868	Trousers	2.00	Piece	150	50	850.00	950.00
P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00
P07975	Lycra tops	5.00	Piece	70	30	300.00	175.00
P08865	Skirts	5.00	Piece	75	30	450.00	300.00
HULL	NULL	HULL	NULL	HULL	NULL	NULL	NULL

PRODUCT\_MASTER 14

Action Output

Time	Action	Response	Duration / Fetch Time
48 15:05:12	DELETE FROM SALESMAN_MASTER WHERE SALA...	2 row(s) affected	0.0019 sec
49 15:05:18	DELETE FROM PRODUCT_MASTER WHERE QTYO...	3 row(s) affected	0.0014 sec
50 15:05:21	DELETE FROM CLIENT_MASTER WHERE STATE = '...	1 row(s) affected	0.0010 sec
51 15:05:25	ALTER TABLE CLIENT_MASTER ADD Telephone BI...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.0071 sec
52 15:05:28	ALTER TABLE PRODUCT_MASTER MODIFY SELLP...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.021 sec
53 15:05:34	DROP TABLE CLIENT_MASTER	0 row(s) affected	0.0068 sec
54 15:06:15	SELECT * FROM PRODUCT_MASTER LIMIT 0, 1000	6 row(s) returned	0.00094 sec / 0.000...

Query Completed

MySQL Workbench

unconnected | Divyansh Kumar Singh 590012175

Administration Schemas SQL File 4 Divyansh Kumar Singh 590012175 Lab 3 Divyansh Kumar Singh 590012175 Lab 4 >

SCHEMAS

Filter objects

Basic Bus\_Station Lab\_3 Lab\_4 lab\_5 Tables Views Stored Pr... Functions Sample sys TechCo

613  
614 • DELETE FROM PRODUCT\_MASTER  
615 WHERE QTYONHAND = 100;  
616  
617 • DELETE FROM CLIENT\_MASTER  
618 WHERE STATE = 'Tamil Nadu';  
619  
620 • ALTER TABLE CLIENT\_MASTER  
621 ADD Telephone BIGINT;  
622  
623 • ALTER TABLE PRODUCT\_MASTER  
624 MODIFY SELLPRICE DECIMAL(10, 2);  
625  
626 • DROP TABLE CLIENT\_MASTER;  
627  
628 • SELECT \* FROM PRODUCT\_MASTER;  
629  
630 • SELECT \* FROM SALESMAN\_MASTER;

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00001	Aman	A/14 Worli	HULL	Pune	400002	Maharashtra	3000.00	100.00	50.00	HULL
S00003	Raj	P-7 Bandra	HULL	Pune	400032	Maharashtra	3000.00	150.00	60.00	HULL
NULL	HULL	HULL	HULL	HULL	HULL	HULL	NULL	NULL	NULL	HULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SALESMAN\_MASTER 15 Apply Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 49	15:05:18	DELETE FROM PRODUCT_MASTER WHERE QTYO...	3 row(s) affected	0.0014 sec
✓ 50	15:05:21	DELETE FROM CLIENT_MASTER WHERE STATE = '...	1 row(s) affected	0.0010 sec
✓ 51	15:05:25	ALTER TABLE CLIENT_MASTER ADD Telephone BI...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.0071 sec
✓ 52	15:05:28	ALTER TABLE PRODUCT_MASTER MODIFY SELLP...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.021 sec
✓ 53	15:05:34	DROP TABLE CLIENT_MASTER	0 row(s) affected	0.0068 sec
✓ 54	15:06:15	SELECT * FROM PRODUCT_MASTER LIMIT 0, 1000	6 row(s) returned	0.00094 sec / 0.000...
✓ 55	15:06:34	SELECT * FROM SALESMAN_MASTER LIMIT 0, 1000	2 row(s) returned	0.00077 sec / 0.000...

Query Completed