

Lab exercise - 3

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CREATE THE TABLES GIVEN BELOW. INSERT TUPLES SUCH THAT ALL QUERIES SHOULD GIVE PROPER OUTPUT.

1. Create the following tables:

a. Customer Master Table: CUSTOMER

Attribute Name	Data Type	Constraints
CUSTID	VARCHAR (3)	Primary Key
LNAME	VARCHAR (15)	
FNAME	VARCHAR (15)	
AREA	VARCHAR (2)	
PHONENO	NUMERIC (8,0)	

```
4 • CREATE TABLE CUSTOMER (
5     CUSTID VARCHAR(3) PRIMARY KEY,
6     LNAME VARCHAR(15),
7     FNAME VARCHAR(15),
8     AREA VARCHAR(2),
9     PHONENO NUMERIC(8,0)
0 );
1
2 • select * from CUSTOMER;
3
```

The screenshot shows a database interface with a command-line area at the top and a result grid below. The command-line area displays the SQL code for creating the CUSTOMER table and executing a SELECT query. The result grid shows the current state of the CUSTOMER table with one row of data.

CUSTID	LNAME	FNAME	AREA	PHONENO
NULL	NULL	NULL	NULL	NULL

b. Movies Master Table: MOVIE

Attribute Name	Data Type	Constraints
MVNO	NUMERIC (2,0)	Primary Key
TITLE	VARCHAR (25)	
TYPE	VARCHAR (10)	
STAR	VARCHAR (25)	
PRICE	NUMERIC (8,2)	

```
15 • CREATE TABLE MOVIE (
16     MVNO NUMERIC(2,0) PRIMARY KEY,
17     TITLE VARCHAR(25),
18     TYPE VARCHAR(10),
19     STAR VARCHAR(25),
20     PRICE NUMERIC(8,2)
21 );
22
23 • select * from MOVIE;
```

100% ▼ 3:21

Result Grid Filter Rows: Search

	MVNO	TITLE	TYPE	STAR	PRICE	
	HULL	HULL	HULL	HULL	HULL	

c. Invoice transaction Table : INVOICE

Attribute Name	Data Type	Constraints
INVNO	VARCHAR (3)	Primary Key
MVNO	NUMBER (2)	Foreign key MOVIE(MVNO)
CUSTID	VARCHAR (3)	Foreign key CUSTOMER(CUSTID)
ISSUEDATE	DATE	
RETDATE	DATE	

```

25 • CREATE TABLE INVOICE (
26     INVNO VARCHAR(3) PRIMARY KEY,
27     MVNO NUMERIC(2),
28     CUSTID VARCHAR(3),
29     ISSUEDATE DATE,
30     RETDATE DATE,
31     FOREIGN KEY (MVNO) REFERENCES MOVIE(MVNO),
32     FOREIGN KEY (CUSTID) REFERENCES CUSTOMER(CUSTID)
33 );
34
35 • select * from INVOICE;

```

00% 22:35

Result Grid Filter Rows: Search Edit: Export

INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE
NULL	NULL	NULL	NULL	NULL

2. Insert the following data into the tables created

Table: CUST

CUSTID	LNAME	FNAME	AREA	PHONENO
A01	Bayross	Ivan	sa	6125467
A02	Saitwal	Vandana	mu	5560379
A03	Jaguste	Pramada	da	4563891
A04	Navindgi	Basu	ba	6125401
A05	Sreedhar	Ravi	va	NULL
A06	NULL	Rukmini	gh	5125274

```

37 • INSERT INTO CUSTOMER (CUSTID, LNAME, FNAME, AREA, PHONENO) VALUES ('A01', 'Bayross', 'Ivan', 'sa', 6125467);
38 • INSERT INTO CUSTOMER (CUSTID, LNAME, FNAME, AREA, PHONENO) VALUES ('A02', 'Saitwal', 'Vandana', 'mu', 5560379);
39 • INSERT INTO CUSTOMER (CUSTID, LNAME, FNAME, AREA, PHONENO) VALUES ('A03', 'Jaguste', 'Pramada', 'da', 4563891);
40 • INSERT INTO CUSTOMER (CUSTID, LNAME, FNAME, AREA, PHONENO) VALUES ('A04', 'Navindgi', 'Basu', 'ba', 6125401);
41 • INSERT INTO CUSTOMER (CUSTID, LNAME, FNAME, AREA) VALUES ('A05', 'Sreedhar', 'Ravi', 'va');
42 • INSERT INTO CUSTOMER (LNAME, FNAME, AREA, PHONENO) VALUES (NULL, 'Rukmini', 'gh', 5125274);
43
44 • select * from CUSTOMER;

```

00% 92:41

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

CUSTID	LNAME	FNAME	AREA	PHONENO
A01	Bayross	Ivan	sa	6125467
A02	Saitwal	Vandana	mu	5560379
A03	Jaguste	Pramada	da	4563891
A04	Navindgi	Basu	ba	6125401
A05	Sreedhar	Ravi	va	NULL
A06	NULL	Rukmini	gh	5125274
NULL	NULL	NULL	NULL	NULL

Table: MOVIE

MVNO	TITLE	TYPE	STAR	PRICE
1	Bloody Vengeance	action	Jackie Chan	100.00
2	The Firm	thriller	Tom Cruise	200.00
3	Pretty Woman	romance	Richard Gere	150.00
4	Home Alone	Comedy	Macaulay Culkin	150.55
5	The Fugitive	Thriller	Harrison Ford	200.00
6	Coma	Suspense	Michael Douglas	100.00
7	Dracula	Horror	Gary Oldman	150.25
8	Quick change	Comedy	Bill Murray	100.00
9	Gone with the wind	Drama	Clarke Gable	200.00
10	Carry on Doctor	Comedy	Leslie Phillips	100.00

```

46 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (1, 'Bloody Vengeance', 'action', 'Jackie Chan', 100.00);
47 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (2, 'The Firm', 'thriller', 'Tom Cruise', 200.00);
48 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (3, 'Pretty Woman', 'romance', 'Richard Gere', 150.00);
49 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (4, 'Home Alone', 'Comedy', 'Macaulay Culkin', 150.55);
50 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (5, 'The Fugitive', 'Thriller', 'Harrison Ford', 200.00);
51 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (6, 'Coma', 'Suspense', 'Michael Douglas', 100.00);
52 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (7, 'Dracula', 'Horror', 'Gary Oldman', 150.25);
53 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (8, 'Quick change', 'Comedy', 'Bill Murray', 100.00);
54 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (9, 'Gone with the wind', 'Drama', 'Clarke Gable', 200.00);
55 • INSERT INTO MOVIE (MVNO, TITLE, TYPE, STAR, PRICE) VALUES (10, 'Carry on Doctor', 'Comedy', 'Leslie Phillips', 100.00);
56 • select * from MOVIE;

```

00% 20:56

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

MVNO	TITLE	TYPE	STAR	PRICE
1	Bloody Vengeance	action	Jackie Chan	100.00
2	The Firm	thriller	Tom Cruise	200.00
3	Pretty Woman	romance	Richard Gere	150.00
4	Home Alone	Comedy	Macaulay Culkin	150.55
5	The Fugitive	Thriller	Harrison Ford	200.00
6	Coma	Suspense	Michael Douglas	100.00
7	Dracula	Horror	Gary Oldman	150.25
8	Quick change	Comedy	Bill Murray	100.00
9	Gone with the wind	Drama	Clarke Gable	200.00
10	Carry on Doctor	Comedy	Leslie Phillips	100.00

Table: INVOICE

INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE
i01	4	A01	23-jul-2012	25-jul-2012
i02	3	A02	12-aug-2012	15-aug-2012
i03	1	A02	15-aug-2012	18-aug-2012
i04	6	A03	10-sep-2012	13-sep-2012
i05	7	A04	05-aug-2012	08-aug-2012
i06	2	A06	18-sep-2012	20-sep-2012
i07	9	A05	07-jul-2012	10-jul-2012
i08	9	A01	11-aug-2012	14-aug-2012
i09	5	A03	06-jul-2012	09-jul-2012
i10	8	A06	03-sep-2012	06-sep-2012

```

58 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i01', 4, 'A01', '2012-07-23', '2012-07-25');
59 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i02', 3, 'A02', '2012-08-12', '2012-08-15');
60 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i03', 1, 'A02', '2012-08-15', '2012-08-18');
61 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i04', 6, 'A03', '2012-09-10', '2012-09-13');
62 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i05', 7, 'A04', '2012-08-05', '2012-08-08');
63 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i06', 2, 'A06', '2012-09-18', '2012-09-20');
64 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i07', 9, 'A05', '2012-07-07', '2012-07-10');
65 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i08', 9, 'A01', '2012-08-11', '2012-08-14');
66 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i09', 5, 'A03', '2012-07-06', '2012-07-09');
67 •  INSERT INTO INVOICE (INVNO, MVNO, CUSTID, ISSUEDATE, RETDATE) VALUES ('i10', 8, 'A06', '2012-09-03', '2012-09-06');
68 •  select * from INVOICE;

```

The screenshot shows the MySQL Workbench interface with the 'Result Grid' tab selected. The grid displays the data from the INVOICE table with the following rows:

INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE
i01	4	A01	2012-07-23	2012-07-25
i02	3	A02	2012-08-12	2012-08-15
i03	1	A02	2012-08-15	2012-08-18
i04	6	A03	2012-09-10	2012-09-13
i05	7	A04	2012-08-05	2012-08-08
i06	2	A06	2012-09-18	2012-09-20
i07	9	A05	2012-07-07	2012-07-10
i08	9	A01	2012-08-11	2012-08-14
i09	5	A03	2012-07-06	2012-07-09
i10	8	A06	2012-09-03	2012-09-06

3. Write Query statements for the following

1. Find out the names of all customers.

70 • **SELECT LNAME, FNAME FROM CUSTOMER;**

71

100% 1:71

Result Grid Filter Rows: Search Export:

LNAME	FNAME
Bayross	Ivan
Saitwal	Vandana
Jaguste	Pramada
Navindgi	Basu
Sreedhar	Ravi
NULL	Rukmini

2. Print the entire customer table

72 • **SELECT * FROM CUSTOMER;**

73

100% 1:73

Result Grid Filter Rows: Search

CUSTID	LNAME	FNAME	AREA	PHONENO
A01	Bayross	Ivan	sa	6125467
A02	Saitwal	Vandana	mu	5560379
A03	Jaguste	Pramada	da	4563891
A04	Navindgi	Basu	ba	6125401
A05	Sreedhar	Ravi	va	NULL
A06	NULL	Rukmini	gh	5125274
NULL	NULL	NULL	NULL	NULL

3. Retrieve the list of FNAME and the AREA of all the customers.

74 • **SELECT FNAME, AREA FROM CUSTOMER;**

75

76

77

100% 1:73

Result Grid Filter Rows: Search Export:

FNAME	AREA
Ivan	sa
Vandana	mu
Pramada	da
Basu	ba
Ravi	va
Rukmini	gh

4. List the various movie types available from the movie title.

76 • **SELECT DISTINCT TYPE FROM MOVIE;**

100% 1:75

Result Grid Filter Rows: Search Export:

TYPE
action
thriller
romance
Comedy
Suspense
Horror
Drama

5. Find the names of all customers having 'a' in the second letter in their FNAME

78 • **SELECT LNAME, FNAME FROM CUSTOMER WHERE SUBSTRING(FNAME, 2, 1) = 'a';**

79

100% 1:79

Result Grid Filter Rows: Search Export:

LNAME	FNAME
Saitwal	Vandana
Navindgi	Basu
Sreedhar	Ravi

6. Find the LNAME of all customers that begin with 'S' or 'J'

```
80 •   SELECT LNAME FROM CUSTOMER WHERE LNAME LIKE 'S%' OR LNAME LIKE 'J%';
```

```
81
```

00% 1:81

Result Grid



Filter Rows:

Search

Export:



LNAME
Saitwal
Jaguste
Sreedhar

7. Find the LNAME of all customers that is between 'B' and 'S'

```
82 •   SELECT LNAME FROM CUSTOMER WHERE LNAME BETWEEN 'B' AND 'S';
```

```
83
```

00% 1:83

Result Grid



Filter Rows:

Search

Export:



LNAME
Bayross
Jaguste
Navindgi
NULL

8. Find out the customers who stay in an area whose second letter is 'a'.

```
84 •   SELECT * FROM CUSTOMER WHERE AREA LIKE '_a%';
```

```
85
```

00% 1:85

Result Grid



Filter Rows:

Search

Edit:



Export/

CUSTID	LNAME	FNAME	AREA	PHONENO	
A01	Bayross	Ivan	sa	6125467	
A03	Jaguste	Pramada	da	4563891	
A04	Navindgi	Basu	ba	6125401	
A05	Sreedhar	Ravi	va	NULL	
NULL	NULL	NULL	NULL	NULL	

9. Find the list of all customers who stay in area 'ba' or area 'mu' or area 'gh'.

86 • **SELECT * FROM CUSTOMER WHERE AREA IN ('ba', 'mu', 'gh');**

87

00% ▾ 1:87

Result Grid



Filter Rows:

Search

Edit:



Export/Import:



CUSTID	LNAME	FNAME	AREA	PHONENO	
A02	Saitwal	Vandana	mu	5560379	
A04	Navindgi	Basu	ba	6125401	
A06	NULL	Rukmini	gh	5125274	
NULL	NULL	NULL	NULL	NULL	

10. Print the list of movies with prices greater than 150.

88 • **SELECT * FROM MOVIE WHERE PRICE > 150;**

89

00% ▾ 1:89

Result Grid



Filter Rows:

Search

Edit:



Export

MVNO	TITLE	TYPE	STAR	PRICE	
2	The Firm	thriller	Tom Cruise	200.00	
4	Home Alone	Comedy	Macaulay Culkin	150.55	
5	The Fugitive	Thriller	Harrison Ford	200.00	
7	Dracula	Horror	Gary Oldman	150.25	
9	Gone with the wind	Drama	Clarke Gable	200.00	
NULL	NULL	NULL	NULL	NULL	

11. Print all the information from the invoice table of customers who have been issued movies in the month of September.

90 • **SELECT * FROM INVOICE WHERE MONTH(ISSUEDATE) = 9;**

91

100% ▾ 1:91

Result Grid



Filter Rows:

Search

Edit:



INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	
i04	6	A03	2012-09-10	2012-09-13	
i06	2	A06	2012-09-18	2012-09-20	
i10	8	A06	2012-09-03	2012-09-06	
NULL	NULL	NULL	NULL	NULL	

12. Display the invoice table information for custid 'A01' and 'A02'.

92 • `SELECT * FROM INVOICE WHERE CUSTID IN ('A01', 'A02');`

93

100% 1:93

Result Grid Filter Rows: Search Edit: Export/Import

INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	
i01	4	A01	2012-07-23	2012-07-25	
i08	9	A01	2012-08-11	2012-08-14	
i02	3	A02	2012-08-12	2012-08-15	
i03	1	A02	2012-08-15	2012-08-18	
	NULL	NULL	NULL	NULL	NULL

13. Find the movies of type "action" and "Comedy"

94 • `SELECT * FROM MOVIE WHERE TYPE IN ('action', 'Comedy');`

95

100% 1:95

Result Grid Filter Rows: Search Edit: Export/Import

MVNO	TITLE	TYPE	STAR	PRICE	
1	Bloody Vengeance	action	Jackie Chan	100.00	
4	Home Alone	Comedy	Macaulay Culkin	150.55	
8	Quick change	Comedy	Bill Murray	100.00	
10	Carry on Doctor	Comedy	Leslie Phillips	100.00	

14. Find the movies with price greater than 150 and less than or equal to 200.

96 • `SELECT * FROM MOVIE WHERE PRICE > 150 AND PRICE <= 200;`

97

00% 1:97

Result Grid Filter Rows: Search Edit: Export/Import

MVNO	TITLE	TYPE	STAR	PRICE	
2	The Firm	thriller	Tom Cruise	200.00	
4	Home Alone	Comedy	Macaulay Culkin	150.55	
5	The Fugitive	Thriller	Harrison Ford	200.00	
7	Dracula	Horror	Gary Oldman	150.25	
9	Gone with the wind	Drama	Clarke Gable	200.00	

15. Find the movies that cost more than 159 and also find the new cost as original cost* 15

```
98 •   SELECT *, PRICE * 15 AS NEW_COST FROM MOVIE WHERE PRICE > 159;  
99
```

100% 1:99

Result Grid Filter Rows: Search Export:

MVNO	TITLE	TYPE	STAR	PRICE	NEW_COST
2	The Firm	thriller	Tom Cruise	200.00	3000.00
5	The Fugitive	Thriller	Harrison Ford	200.00	3000.00
9	Gone with the wind	Drama	Clarke Gable	200.00	3000.00

16. Rename the new column in the above query as new price,

```
100 •   SELECT *, PRICE * 15 AS "new price" FROM MOVIE WHERE PRICE > 159;  
101
```

100% 1:101

Result Grid Filter Rows: Search Export:

MVNO	TITLE	TYPE	STAR	PRICE	new price
2	The Firm	thriller	Tom Cruise	200.00	3000.00
5	The Fugitive	Thriller	Harrison Ford	200.00	3000.00
9	Gone with the wind	Drama	Clarke Gable	200.00	3000.00

17. List the movies in sorted order of their titles.

```
102 •   SELECT * FROM MOVIE ORDER BY TITLE;
```

```
103
```

100% 1:103

Result Grid Filter Rows: Search Edit: Export

MVNO	TITLE	TYPE	STAR	PRICE
1	Bloody Vengeance	action	Jackie Chan	100.00
10	Carry on Doctor	Comedy	Leslie Phillips	100.00
6	Coma	Suspense	Michael Douglas	100.00
7	Dracula	Horror	Gary Oldman	150.25
9	Gone with the wind	Drama	Clarke Gable	200.00
4	Home Alone	Comedy	Macaulay Culkin	150.55
3	Pretty Woman	romance	Richard Gere	150.00
8	Quick change	Comedy	Bill Murray	100.00
2	The Firm	thriller	Tom Cruise	200.00
5	The Fugitive	Thriller	Harrison Ford	200.00
NUL	NUL	NUL	NUL	NUL

18. List the movies in the sorted order of type, title

104 • **SELECT * FROM MOVIE ORDER BY TYPE, TITLE;**

105

100%

1:105

Result Grid



Filter Rows:

Search

Edit:



Export

MVNO	TITLE	TYPE	STAR	PRICE
1	Bloody Vengeance	action	Jackie Chan	100.00
10	Carry on Doctor	Comedy	Leslie Phillips	100.00
4	Home Alone	Comedy	Macaulay Culkin	150.55
8	Quick change	Comedy	Bill Murray	100.00
9	Gone with the wind	Drama	Clarke Gable	200.00
7	Dracula	Horror	Gary Oldman	150.25
3	Pretty Woman	romance	Richard Gere	150.00
6	Coma	Suspense	Michael Douglas	100.00
2	The Firm	thriller	Tom Cruise	200.00
5	The Fugitive	Thriller	Harrison Ford	200.00

19. Print the names and types of all the movie except horror movies.

106 • **SELECT TITLE, TYPE FROM MOVIE WHERE TYPE != 'Horror';**

107

100%

1:107

Result Grid



Filter Rows:

Search

Export:



TITLE	TYPE
Bloody Vengeance	action
The Firm	thriller
Pretty Woman	romance
Home Alone	Comedy
The Fugitive	Thriller
Coma	Suspense
Quick change	Comedy
Gone with the wind	Drama
Carry on Doctor	Comedy

20. Calculate the square root of price of each movie.

```
108 •  SELECT TITLE, SQRT(PRICE) AS "Square Root of Price" FROM MOVIE;  
109 |
```

100% 1:109

Result Grid



Filter Rows:



Search

Export:



TITLE	Square Root of Price
Bloody Vengeance	10
The Firm	14.142135623730951
Pretty Woman	12.24744871391589
Home Alone	12.269881825021788
The Fugitive	14.142135623730951
Coma	10
Dracula	12.257650672131263
Quick change	10
Gone with the wind	14.142135623730951

21. Display the type and the average price of each movie type

```
110 •  SELECT TYPE, AVG(PRICE) AS "Average Price" FROM MOVIE GROUP BY TYPE;  
111 |
```

100% 1:111

Result Grid



Filter Rows:



Search

Export:



TYPE	Average Price
action	100.000000
thriller	200.000000
romance	150.000000
Comedy	116.850000
Suspense	100.000000
Horror	150.250000
Drama	200.000000

22. Try out: select * from movie group by(type);

11:11:49 select * from movie group by(type) LIMIT 0, 1000 Error Code: 1055.

Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'lab3.movie.MVNO' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by 0.00093 sec

This query will not work as expected because when using GROUP BY, you need to use aggregate functions on columns that are not part of the GROUP BY clause. In this case, it will return an arbitrary row for each type.

23. Try out: select count(MVNO) from movie where count(MVNO)>2;

11:13:00 select count(MVNO) from movie where count(MVNO)>2 LIMIT 0, 1000 Error Code: 1111. Invalid use of group function 0.0029 sec

This query will result in an error because you cannot use aggregate functions like COUNT in the WHERE clause. Instead, you should use the HAVING clause to filter based on aggregate functions.

24. Find the name and movie of the customer who have issued a movie.

```
116 •   SELECT C.FNAME, C.LNAME, M.TITLE  
117     FROM CUSTOMER C  
118     JOIN INVOICE I ON C.CUSTID = I.CUSTID  
119     JOIN MOVIE M ON I.MVNO = M.MVNO;  
120
```

Result Grid Filter Rows: Search Export:

FNAME	LNAME	TITLE
Ivan	Bayross	Home Alone
Ivan	Bayross	Gone with the wind
Vandana	Saitwal	Pretty Woman
Vandana	Saitwal	Bloody Vengeance
Pramada	Jaguste	Coma
Pramada	Jaguste	The Fugitive
Basu	Navindgi	Dracula
Ravi	Sreedhar	Gone with the wind
Rukmini	NULL	The Firm
Rukmini	NULL	Quick change

25. List the names, areas and customer - id of customers without phone numbers.

```
121 •   SELECT FNAME, LNAME, AREA, CUSTID  
122     FROM CUSTOMER  
123     WHERE PHONENO IS NULL;  
124
```

Result Grid Filter Rows: Search Edit

FNAME	LNAME	AREA	CUSTID
Ravi	Sreedhar	va	A05
NULL	NULL	NULL	NULL

26. Delete all the records having return date before 10th July'93

```
125 • DELETE FROM INVOICE WHERE RETDATE < '1993-07-10';
126 • SELECT * FROM INVOICE;
```

100% 23:126

Result Grid Filter Rows: Search Edit: Export

	INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	
	i01	4	A01	2012-07-23	2012-07-25	
	i02	3	A02	2012-08-12	2012-08-15	
	i03	1	A02	2012-08-15	2012-08-18	
	i04	6	A03	2012-09-10	2012-09-13	
	i05	7	A04	2012-08-05	2012-08-08	
	i06	2	A06	2012-09-18	2012-09-20	
	i07	9	A05	2012-07-07	2012-07-10	
	i08	9	A01	2012-08-11	2012-08-14	
	i09	5	A03	2012-07-06	2012-07-09	
	i10	8	A06	2012-09-03	2012-09-06	

27. Change the area of customer – id 'a05' to 'vs'.

```
128 • UPDATE CUSTOMER SET AREA = 'vs' WHERE CUSTID = 'A05';
129 • SELECT * FROM CUSTOMER;
```

100% 23:129

Result Grid Filter Rows: Search Edit: Export

CUSTID	LNAME	FNAME	AREA	PHONENO	
A01	Bayross	Ivan	sa	6125467	
A02	Saitwal	Vandana	mu	5560379	
A03	Jaguste	Pramada	da	4563891	
A04	Navindgi	Basu	ba	6125401	
A05	Sreedhar	Ravi	vs	NULL	
A06	NULL	Rukmini	gh	5125274	
NULL	NULL	NULL	NULL	NULL	

28. Select the TITLE, CUSTID, MVNO for all the movies that are issued.

```

131 •   SELECT MOVIE.TITLE, INVOICE.CUSTID, INVOICE.MVNO
132      FROM MOVIE
133      INNER JOIN INVOICE ON MOVIE.MVNO = INVOICE.MVNO;
134

```

100% 1:134

Result Grid Filter Rows: Search Export:

TITLE	CUSTID	MVNO
Bloody Vengeance	A02	1
The Firm	A06	2
Pretty Woman	A02	3
Home Alone	A01	4
The Fugitive	A03	5
Coma	A03	6
Dracula	A04	7
Quick change	A06	8
Gone with the wind	A05	9
Gone with the wind	A01	9

29. Display the month (in alphabets) in which customer are supposed to return the movies.

```

139 •   SELECT DISTINCT MONTHNAME(RETDATE) AS Return_Month FROM INVOICE;
140
141

```

100% 1:138

Result Grid Filter Rows: Search Export:

Return_Month
July
August
September

30. Find out if the movie starring *Tom Cruise* is issued to any customer and list the CUSTID to whom it is issued.

```
141 •   SELECT INVOICE.CUSTID  
142     FROM INVOICE  
143     JOIN MOVIE ON INVOICE.MVNO = MOVIE.MVNO  
144     WHERE MOVIE.STAR = 'Tom Cruise';  
145
```

00% 1:145

Result Grid



Filter Rows:



Search

Export:



CUSTID
A06

31. Find out the title of the movie that have been issued to the customer whose FNAME is Vandana.

```
146 •   SELECT MOVIE.TITLE  
147     FROM MOVIE  
148     INNER JOIN INVOICE ON MOVIE.MVNO = INVOICE.MVNO  
149     INNER JOIN CUSTOMER ON INVOICE.CUSTID = CUSTOMER.CUSTID  
150     WHERE CUSTOMER.FNAME = 'Vandana';  
151
```

100% 1:151

Result Grid



Filter Rows:



Search

Export:



TITLE
Pretty Woman
Bloody Vengeance

32. Add a column remark of type varchar and size 25 to the invoice table.

```
152 • ALTER TABLE INVOICE ADD COLUMN remark VARCHAR(25);  
153 • SELECT * FROM INVOICE;
```

100% ◇ 1:152

Result Grid Filter Rows: Search Edit: Export

INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	remark	
i01	4	A01	2012-07-23	2012-07-25	NULL	
i02	3	A02	2012-08-12	2012-08-15	NULL	
i03	1	A02	2012-08-15	2012-08-18	NULL	
i04	6	A03	2012-09-10	2012-09-13	NULL	
i05	7	A04	2012-08-05	2012-08-08	NULL	
i06	2	A06	2012-09-18	2012-09-20	NULL	
i07	9	A05	2012-07-07	2012-07-10	NULL	
i08	9	A01	2012-08-11	2012-08-14	NULL	
i09	5	A03	2012-07-06	2012-07-09	NULL	
i10	8	A06	2012-09-03	2012-09-06	NULL	

33. Find out the movie number which has been issued to customer whose first name is ‘Pramada’.

```
155 • SELECT INVOICE.MVNO  
156   FROM INVOICE  
157   JOIN CUSTOMER ON INVOICE.CUSTID = CUSTOMER.CUSTID  
158   WHERE CUSTOMER.FNAME = 'Pramada';  
159
```

100% ◇ 1:159

Result Grid Filter Rows: Search Export:

MVNO
6
5

34. Change the telephone number of Pramada to 466389.

```

160 • UPDATE CUSTOMER
161     SET PHONENO = '466389'
162     WHERE FNAME = 'Pramada';
163 • SELECT * FROM CUSTOMER;

```

100% ◇ 23:163

Result Grid Filter Rows: Search Edit:

	CUSTID	LNAME	FNAME	AREA	PHONENO
	A01	Bayross	Ivan	sa	6125467
	A02	Saitwal	Vandana	mu	5560379
	A03	Jaguste	Pramada	da	466389
	A04	Navindgi	Basu	ba	6125401
	A05	Sreedhar	Ravi	vs	NULL
	A06	NULL	Rukmini	gh	5125274
	NULL	NULL	NULL	NULL	NULL

35. Change the *issue date* of *custid* 'a01' to 24/07/93.

```

165 • UPDATE INVOICE
166     SET ISSUEDATE = '1993-07-24'
167     WHERE CUSTID = 'A01';
168
169 • SELECT * FROM INVOICE;

```

100% ◇ 22:169

Result Grid Filter Rows: Search Edit:

	INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	remark
	i01	4	A01	1993-07-24	2012-07-25	NULL
	i02	3	A02	2012-08-12	2012-08-15	NULL
	i03	1	A02	2012-08-15	2012-08-18	NULL
	i04	6	A03	2012-09-10	2012-09-13	NULL
	i05	7	A04	2012-08-05	2012-08-08	NULL
	i06	2	A06	2012-09-18	2012-09-20	NULL
	i07	9	A05	2012-07-07	2012-07-10	NULL
	i08	9	A01	1993-07-24	2012-08-14	NULL
	i09	5	A03	2012-07-06	2012-07-09	NULL
	i10	8	A06	2012-09-03	2012-09-06	NULL

36. Change the price of 'Gone with the wind' to Rs. 250.00.

```
171 • UPDATE MOVIE
172     SET PRICE = 250.00
173     WHERE TITLE = 'Gone with the wind';
174 • SELECT * FROM MOVIE;
```

100% ◇ 20:174

Result Grid Filter Rows: Search Edit:

MVNO	TITLE	TYPE	STAR	PRICE
1	Bloody Vengeance	action	Jackie Chan	100.00
2	The Firm	thriller	Tom Cruise	200.00
3	Pretty Woman	romance	Richard Gere	150.00
4	Home Alone	Comedy	Macaulay Culkin	150.55
5	The Fugitive	Thriller	Harrison Ford	200.00
6	Coma	Suspense	Michael Douglas	100.00
7	Dracula	Horror	Gary Oldman	150.25
8	Quick change	Comedy	Bill Murray	100.00
9	Gone with the wind	Drama	Clarke Gable	250.00
10	Carry on Doctor	Comedy	Leslie Phillips	100.00

37. Delete the record with invoice number 'i05' from the invoice table.

```
176 • DELETE FROM INVOICE
177     WHERE INVNO = 'i05';
178 • SELECT * FROM INVOICE;
```

00% ◇ 22:178

Result Grid Filter Rows: Search Edit:

INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	remark
i01	4	A01	1993-07-24	2012-07-25	NULL
i02	3	A02	2012-08-12	2012-08-15	NULL
i03	1	A02	2012-08-15	2012-08-18	NULL
i04	6	A03	2012-09-10	2012-09-13	NULL
i06	2	A06	2012-09-18	2012-09-20	NULL
i07	9	A05	2012-07-07	2012-07-10	NULL
i08	9	A01	1993-07-24	2012-08-14	NULL
i09	5	A03	2012-07-06	2012-07-09	NULL
i10	8	A06	2012-09-03	2012-09-06	NULL
NULL	NULL	NULL	NULL	NULL	NULL

38. Delete all the records having return date before 10th July '93

```
180 • DELETE FROM INVOICE  
181     WHERE RETDATE < '1993-07-10';  
182 • SELECT * FROM INVOICE;
```

100% 23:182

Result Grid Filter Rows: Search Edit:

	INVNO	MVNO	CUSTID	ISSUEDATE	RETDATE	remark	
	i01	4	A01	1993-07-24	2012-07-25	NULL	
	i02	3	A02	2012-08-12	2012-08-15	NULL	
	i03	1	A02	2012-08-15	2012-08-18	NULL	
	i04	6	A03	2012-09-10	2012-09-13	NULL	
	i06	2	A06	2012-09-18	2012-09-20	NULL	
	i07	9	A05	2012-07-07	2012-07-10	NULL	
	i08	9	A01	1993-07-24	2012-08-14	NULL	
	i09	5	A03	2012-07-06	2012-07-09	NULL	
	i10	8	A06	2012-09-03	2012-09-06	NULL	

39. Change the area of custid a05 to 'vs'.

```
184 • UPDATE CUSTOMER  
185     SET AREA = 'vs'  
186     WHERE CUSTID = 'A05';  
187 • SELECT * FROM CUSTOMER;
```

100% 23:187

Result Grid Filter Rows: Search Edit:

CUSTID	LNAME	FNAME	AREA	PHONENO
A01	Bayross	Ivan	sa	6125467
A02	Saitwal	Vandana	mu	5560379
A03	Jaguste	Pramada	da	466389
A04	Navindgi	Basu	ba	6125401
A05	Sreedhar	Ravi	vs	NULL
A06	NULL	Rukmini	gh	5125274
NULL	NULL	NULL	NULL	NULL

40. Insert fname for customer with lname Rukmini

```
189 • UPDATE CUSTOMER  
190     SET FNAME = 'Rahul'  
191     WHERE LNAME = 'Rukmini';  
192 • SELECT * FROM CUSTOMER;
```

100% 24:192

Result Grid Filter Rows: Search Edit:

CUSTID	LNAME	FNAME	AREA	PHONENO
A01	Bayross	Ivan	sa	6125467
A02	Saitwal	Vandana	mu	5560379
A03	Jaguste	Pramada	da	466389
A04	Navindgi	Basu	ba	6125401
A05	Sreedhar	Ravi	vs	NULL
A06	NULL	Rukmini	gh	5125274
NULL	NULL	NULL	NULL	NULL

41. Increase the price of all movies by 100.00

```
194 • UPDATE MOVIE  
195     SET PRICE = PRICE + 100.00;  
196 • SELECT * FROM MOVIE;
```

100% 20:196

Result Grid Filter Rows: Search Edit: Export/Import

MVNO	TITLE	TYPE	STAR	PRICE
1	Bloody Vengeance	action	Jackie Chan	200.00
2	The Firm	thriller	Tom Cruise	300.00
3	Pretty Woman	romance	Richard Gere	250.00
4	Home Alone	Comedy	Macaulay Culkin	250.55
5	The Fugitive	Thriller	Harrison Ford	300.00
6	Coma	Suspense	Michael Douglas	200.00
7	Dracula	Horror	Gary Oldman	250.25
8	Quick change	Comedy	Bill Murray	200.00
9	Gone with the wind	Drama	Clarke Gable	350.00
10	Carry on Doctor	Comedy	Leslie Phillips	200.00

42. Change the area of customers name with 2nd letter r to LA

```
199 • UPDATE CUSTOMER  
200     SET AREA = 'LA'  
201     WHERE FNAME LIKE '_r%';  
202 • SELECT * FROM CUSTOMER;
```

100% 23:202

Result Grid Filter Rows: Search Edit:

CUSTID	LNAME	FNAME	AREA	PHONENO
A01	Bayross	Ivan	sa	6125467
A02	Saitwal	Vandana	mu	5560379
A03	Jaguste	Pramada	LA	466389
A04	Navindgi	Basu	ba	6125401
A05	Sreedhar	Ravi	vs	NULL
A06	NULL	Rukmini	gh	5125274
NULL	NULL	NULL	NULL	NULL