

## LAB 3

**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)	

**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)	

**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	

## 2. Insert the following data into the tables created

**Table: CUST**

<b>CUSTID</b>	<b>LNAME</b>	<b>FNAME</b>	<b>AREA</b>	<b>PHONENO</b>
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

**Table: MOVIE**

<b>MVNO</b>	<b>TITLE</b>	<b>TYPE</b>	<b>STAR</b>	<b>PRICE</b>
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

**3. Write Query statements for the following**

1. Find out the names of all customers.
2. Print the entire customer table.
3. Retrieve the list of FNAME and the AREA of all the customers.
4. List the various movie types available from the movie title.
5. Find the names of all customers having 'a' in the second letter in their FNAME
6. Find the LNAME of all customers that begin with 'S' or 'J'
7. Find the LNAME of all customers that is between 'B' and 'S'
8. Find out the customers who stay in an area whose second letter is 'a'.
9. Find the list of all customers who stay in area 'ba' or area 'mu' or area 'gh'.
10. Print the list of movies with prices greater than 150.
11. Print all the information from the invoice table of customers who have been issued movies in the month of September.
12. Display the invoice table information for custid 'A01' and 'A02'.
13. Find the movies of type “action” and “Comedy”

14. Find the movies with price greater than 150 and less than or equal to 200.
15. Find the movies that cost more than 159 and also find the new cost as original cost\* 15
16. Rename the new column in the above query as new price,
17. List the movies in sorted order of their titles.
18. List the movies in the sorted order of type, title
19. Print the names and types of all the movie except horror movies.
20. Calculate the square root of price of each movie.
21. Display the type and the average price of each movie type.
22. Try out: select \* from movie group by(type);
23. Try out: select count(MVNO) from movie where count(MVNO)>2;
24. Find the name and movie of the customer who have issued a movie.
25. List the names, areas and customer - id of customers without phone numbers.
26. Delete all the records having return date before 10th July'93
27. Change the area of customer – id 'a05' to 'vs'.
28. Select the TITLE, CUSTID, MVNO for all the movies that are issued.
29. Display the month (in alphabets) in which customer are supposed to return the movies.
30. Find out if the movie starring *Tom Cruise* is issued to any customer and list the CUSTID to whom it is issued.
31. Find out the title of the movie that have been issued to the customer whose FNAME is Vandana.
32. Add a column remark of type varchar and size 25 to the invoice table.
33. Find out the movie number which has been issued to customer whose first name is 'Pramada'.
34. Change the telephone number of Pramada to 466389.
35. Change the *issue date* of *custid* 'a01' to 24/07/93.
36. Change the price of 'Gone with the wind' to Rs. 250.00.
37. Delete the record with invoice number 'i05' from the invoice table.
38. Delete all the records having return date before 10th July '93
39. Change the area of custid a05 to 'vs'.
40. Insert fname for customer with lname Rukmini

41. Increase the price of all movies by 100.00
42. Change the area of customers name with 2<sup>nd</sup> letter **r** to LA