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**BRANCH:** Information Technology  
**Batch:** I1-1  
**SUBJECT:** DBMS

#### EXPERIMENT NO. 4

**Implement the SQL statements for the following questions :**

1. Display movie no, title, type ,cust\_id, issue date and return date using INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN and FULL OUTER JOIN in the descending order of movie no.

```
SELECT MOVIE.Movie_no, MOVIE.Title, MOVIE.Type, Invoice.Cust_id,  
Invoice.Issue_date, Invoice.Return_date
```

```
FROM MOVIE
```

```
INNER JOIN Invoice ON MOVIE.Movie_no = Invoice.Movie_no
```

```
ORDER BY MOVIE.Movie_no DESC;
```

MOVIE_NO	TITLE	TYPE	CUST_ID	ISSUE_DATE	RETURN_DATE
8	Quick Change	Comedy	A06	08/02/2095	08/05/2095
7	Dracula	Horror	A04	07/28/2095	07/29/2095
6	Coma	Suspense	A03	07/23/2095	07/24/2095
4	Home Alone	Comedy	A01	07/23/2095	07/28/2095
3	Pretty Woman	Romance	A02	08/12/2095	08/15/2095
2	The Firm	Thriller	A06	09/01/2095	09/04/2095
1	Carry On doctor	Comedy	A02	09/10/2095	09/16/2095

```
SELECT MOVIE.Movie_no, MOVIE.Title, MOVIE.Type, Invoice.Cust_id,  
Invoice.Issue_date, Invoice.Return_date
```

```
FROM MOVIE
```

```
LEFT JOIN Invoice ON MOVIE.Movie_no = Invoice.Movie_no
```

```
ORDER BY MOVIE.Movie_no DESC;
```



MOVIE_NO	TITLE	TYPE	CUST_ID	ISSUE_DATE	RETURN_DATE
8	Quick Change	Comedy	A06	08/02/2095	08/05/2095
7	Dracula	Horror	A04	07/28/2095	07/29/2095
6	Coma	Suspense	A03	07/23/2095	07/24/2095
5	The Fugitive	Thriller	-	-	-
4	Home Alone	Comedy	A01	07/23/2095	07/28/2095
3	Pretty Woman	Romance	A02	08/12/2095	08/15/2095
2	The Firm	Thriller	A06	09/01/2095	09/04/2095
1	Carry On doctor	Comedy	A02	09/10/2095	09/16/2095

```
SELECT MOVIE.Movie_no, MOVIE.Title, MOVIE.Type, Invoice.Cust_id,  
Invoice.Issue_date, Invoice.Return_date  
FROM MOVIE
```

```
RIGHT JOIN Invoice ON MOVIE.Movie_no = Invoice.Movie_no
```

```
ORDER BY MOVIE.Movie_no DESC;
```

MOVIE_NO	TITLE	TYPE	CUST_ID	ISSUE_DATE	RETURN_DATE
-	-	-	A01	08/18/2095	08/21/2095
-	-	-	A05	08/07/2095	08/08/2095
8	Quick Change	Comedy	A06	08/02/2095	08/05/2095
7	Dracula	Horror	A04	07/28/2095	07/29/2095
6	Coma	Suspense	A03	07/23/2095	07/24/2095
4	Home Alone	Comedy	A01	07/23/2095	07/28/2095
3	Pretty Woman	Romance	A02	08/12/2095	08/15/2095
2	The Firm	Thriller	A06	09/01/2095	09/04/2095
1	Carry On doctor	Comedy	A02	09/10/2095	09/16/2095

```
SELECT MOVIE.Movie_no, MOVIE.Title, MOVIE.Type, Invoice.Cust_id,  
Invoice.Issue_date, Invoice.Return_date
```

```
FROM MOVIE
```

```
FULL JOIN Invoice ON MOVIE.Movie_no = Invoice.Movie_no
```

```
ORDER BY MOVIE.Movie_no DESC;
```



MOVIE_NO	TITLE	TYPE	CUST_ID	ISSUE_DATE	RETURN_DATE
-	-	-	A01	08/18/2095	08/21/2095
-	-	-	A05	08/07/2095	08/08/2095
8	Quick Change	Comedy	A06	08/02/2095	08/05/2095
7	Dracula	Horror	A04	07/28/2095	07/29/2095
6	Coma	Suspense	A03	07/23/2095	07/24/2095
5	The Fugitive	Thriller	-	-	-
4	Home Alone	Comedy	A01	07/23/2095	07/28/2095
3	Pretty Woman	Romance	A02	08/12/2095	08/15/2095
2	The Firm	Thriller	A06	09/01/2095	09/04/2095
1	Carry On doctor	Comedy	A02	09/10/2095	09/16/2095

2. Find the lname, fname who have been issued moves  
SELECT CM.Lname, CM.Fname  
FROM Customer\_MASTER CM  
INNER JOIN Invoice I ON CM.Cust\_id = I.Cust\_id;

LNAME	FNAME
Border	Allan
Shields	Tina
Shields	Tina
Kumar	Ravi
Rai	Sunita
Smith	James
-	Sachin
Border	Allan
Smith	James

3. Find out the title and type of movies that have been issued to Tina.  
SELECT M.Title, M.Type  
FROM MOVIE M  
INNER JOIN Invoice I ON M.Movie\_no = I.Movie\_no  
INNER JOIN Customer\_MASTER C ON I.Cust\_id = C.Cust\_id  
WHERE C.Fname = 'Tina';

TITLE	TYPE
Pretty Woman	Romance
Carry On doctor	Comedy



4. Display the first names and last names of the customers who have issued movies after 23rd July 95.

```
SELECT CM.Fname, CM.Lname  
FROM Customer_MASTER CM  
INNER JOIN Invoice I ON CM.Cust_id = I.Cust_id  
WHERE I.Issue_date > TO_DATE('1995-07-23', 'YYYY-MM-DD');
```

FNAME	LNAME
Allan	Border
Tina	Shields
Tina	Shields
Ravi	Kumar
Sunita	Rai
James	Smith
Sachin	-
Allan	Border
James	Smith

5. Find the customer name and area with invoice number 'I10'.

```
SELECT CM.Lname || ', ' || CM.Fname AS Customer_Name, CM.Area  
FROM Customer_MASTER CM  
JOIN Invoice I ON CM.Cust_id = I.Cust_id  
WHERE I.Inv_no = 'I10';
```

CUSTOMER_NAME	AREA
Smith, James	WA

6. Find the names and movie numbers of all the customers who have been issued a movie.

```
SELECT CM.Lname || ', ' || CM.Fname AS Customer_Name, I.Movie_no  
FROM Customer_MASTER CM  
INNER JOIN Invoice I ON CM.Cust_id = I.Cust_id;
```

CUSTOMER_NAME	MOVIE_NO
Border, Allan	4
Shields, Tina	3
Shields, Tina	1
Kumar, Ravi	6
Rai, Sunita	7
Smith, James	2
, Sachin	9
Border, Allan	9
Smith, James	8





7. Find out which customers have been issued movie number 9.

```
SELECT CM.Lname || ', ' || CM.Fname AS Customer_Name
FROM Customer_MASTER CM
INNER JOIN Invoice I ON CM.Cust_id = I.Cust_id
WHERE I.Movie_no = 9;
```

CUSTOMER_NAME
, Sachin
Border, Allan

8. Find the name of the movie issued to Tina and Allan.

```
SELECT CM.Fname, CM.Lname, M.Title
FROM Customer_MASTER CM
INNER JOIN Invoice I ON CM.Cust_id = I.Cust_id
INNER JOIN MOVIE M ON I.Movie_no = M.Movie_no
WHERE CM.Fname IN ('Tina', 'Allan');
```

FNAME	LNAME	TITLE
Allan	Border	Home Alone
Tina	Shields	Pretty Woman
Tina	Shields	Carry On doctor

9. For the above query create a view.

```
CREATE VIEW MoviesIssuedToTinaAndAllan AS
SELECT CM.Fname, CM.Lname, M.Title
FROM Customer_MASTER CM
INNER JOIN Invoice I ON CM.Cust_id = I.Cust_id
INNER JOIN MOVIE M ON I.Movie_no = M.Movie_no
WHERE CM.Fname IN ('Tina', 'Allan');
```

View created.

0.07 seconds

```
SELECT * FROM MoviesIssuedToTinaAndAllan;
```

FNAME	LNAME	TITLE
Allan	Border	Home Alone
Tina	Shields	Pretty Woman
Tina	Shields	Carry On doctor



10. Modify the above view to add the price of the movie.

```
CREATE OR REPLACE VIEW MoviesIssuedToTinaAndAllan AS  
SELECT CM.Fname, CM.Lname, M.Title, M.Price  
FROM Customer_MASTER CM  
INNER JOIN Invoice I ON CM.Cust_id = I.Cust_id  
INNER JOIN MOVIE M ON I.Movie_no = M.Movie_no  
WHERE CM.Fname IN ('Tina', 'Allan');
```

View created.

0.07 seconds

```
SELECT * FROM MoviesIssuedToTinaAndAllan;
```

FNAME	LNAME	TITLE	PRICE
Allan	Border	Home Alone	150
Tina	Shields	Pretty Woman	150.55
Tina	Shields	Carry On doctor	175

11. Drop the view.

```
DROP VIEW MoviesIssuedToTinaAndAllan;
```

View dropped.

0.05 seconds