COURSE CODE: DJS22ITL302   **CLASS: S. Y. B. Tech. Sem III**

COURSE NAME: DBMS LAB   **SAP ID: 60003220045**

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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	08/02/1995	08/05/1995
7	Dracula	Horror	A04	07/28/1995	07/29/1995
6	Coma	Suspense	A03	07/23/1995	07/24/1995
5	The Fugitive	Thriller	-	-	-
4	Home Alone	Comedy	A01	07/23/1995	07/28/1995
3	Pretty Woman	Romance	A02	08/12/1995	08/15/1995
2	The Firm	Thriller	A06	09/01/1995	09/04/1995
1	Carry On doctor	Comedy	A02	09/10/1995	09/16/1995

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	08/18/1995	08/21/1995
-	-	-	A05	08/07/1995	08/08/1995
8	Quick Change	Comedy	A06	08/02/1995	08/05/1995
7	Dracula	Horror	A04	07/28/1995	07/29/1995
6	Coma	Suspense	A03	07/23/1995	07/24/1995
4	Home Alone	Comedy	A01	07/23/1995	07/28/1995
3	Pretty Woman	Romance	A02	08/12/1995	08/15/1995
2	The Firm	Thriller	A06	09/01/1995	09/04/1995
1	Carry On doctor	Comedy	A02	09/10/1995	09/16/1995

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