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**ROLL No:** 1025 **Sap ID:** 60003220131

**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
-	-	17.5	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;

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MOVIE_NO	TITLE	TYPE	CUST_ID	ISSUE_DATE	RETURN_DATE
-	1961		A01	08/18/2095	08/21/2095
7.	( <del>-</del>	*	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	173	7	17.
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

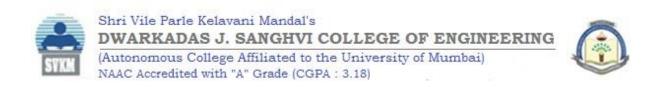
 Find the lname, fname who have been issued moves SELECT CM.Lname, CM.Fname FROM Customer\_MASTER CM INNER JOIN Invoice I ON CM.Cust\_id = I.Cust\_id;

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

 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

TITLE	TYPE
Pretty Woman	Romance
Carry On doctor	Comedy

WHERE C.Fname = 'Tina';



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';



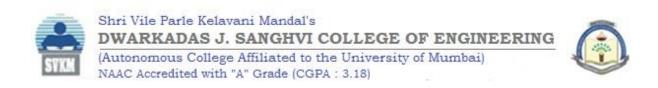
6. Find the names and movie numbers of all the customers who have been issued a movie.

SELECT CM.Lname  $\parallel$  ', '  $\parallel$  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;



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