

**Department of Information Technology****S.Y. BTech (IT)****SUB: DBMS LAB****Experiment No: 5****Study and Implement Subqueries****SAP ID: 60003220131****NAME: Ayush Vinod Upadhyay****CLASS: I1****BATCH: 1****-----EXERCISE-----****Implement the SQL statements for the following questions****1. Create the given tables and insert the respective values in the tables.**

Customer Master : CUST		Movie Master : MOVIE		Invoice Transaction : INVOICE	
Column Name	Format	Column Name	Format	Column Name	Format
Cust_id	Varchar2(3)	Movie_no	Integer	Inv_no	Varchar2(3)
Lname	Varchar2(15)	Title	Varchar2(15)	Movie_no	Integer
Fname	Varchar2(15)	Type	Varchar2(10)	Cust_id	Varchar2(3)
Area	Varchar2(2)	Star	Varchar2(25)	Issue_date	Date
Phone_no	Integer	Price	Number(8,2)	Return_date	Date

2. Insert the following data in the respective tables**Data for CUSTOMER table:**

Cust_id	Lname	Fname	Area	Phone_no
A01	Border	Allan	SA	723622
A02	Shields	Tina	Mo	123784
A03	Kumar	Ravi	BI	545621
A04	Rai	Sunita	CH	983724
A05		Sachin	DR	253489
A06	Smith	James	WA	634672

Data for MOVIE table:

Movien o	Title	Type	Star	Price
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1	Carry On doctor	Comedy	Leslie Phollips	175.00
2	The Firm	Thriller	Tom Cruise	200.00
3	Pretty Woman	Romance	Richard Gere	150.55
4	Home Alone	Comedy	Macaulay Culkin	150.00
5	The Fugitive	Thriller	Harison Ford	200.00
6	Coma	Suspense	Michael Douglas	100.00
7	Dracula	Horror	Gary Oldman	150.25
8	Quick Change	Comedy	Bill Murray	190.00

Data for INVOICE Table:

Inv_no	Movie_no	Cust_id	Issue_date	Return_date
I01	4	A01	23-jul-95	28-jul-95
I02	3	A02	12-aug-95	15-aug-95
I03	1	A02	10-sep-95	16-sep-95
I04	6	A03	23-jul-95	24-jul-95
I05	7	A04	28-jul-95	29-jul-95
I06	2	A06	01-sep-95	04-sep-95
I07	9	A05	07-aug-95	08-aug-95
I08	9	A01	18-aug-95	22-sep-95
I09	5	A03	06-jul-95	09-jul-95
I10	8	A06	02-aug-95	05-aug-95

1. Find the lname, fname who have been issued movies.
2. Find out the movie number which has been issued to Allan.
3. Display all the movie title whose price is same as the price of movie 'The Firm'
4. Find the customer name and area with invoice number 'I10'.
5. Find the names and movie numbers of all the customers who have been issued a movie.
6. Find out which customers have been issued movie number 9.
7. Find the name of the movie issued to Tina and Allan.
8. List the movie number, movie name issued to all the customers.
9. Find the customer names and phone numbers who have been issued movies before 01-aug-95.
10. Find the type and movie number of movie issued to cust_id 'A01' and 'A02'.



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QUERY:

- 1) SELECT c.fname, c.lname
FROM customer c
INNER JOIN invoice i ON c.cust_id = i.cust_id
INNER JOIN movie m ON i.movie_no = m.movie_no;

Fname	Lname
Allan	Border
Tina	Shields
Tina	Shields
Ravi	Kumar
Ravi	Kumar
Sunita	Rai
James	Smith
James	Smith

- 2) SELECT movie_no
From invoice where cust_id=(select cust_id from customer where fname='Allan')

Movie_no
4
9

- 3) SELECT title
FROM movie
WHERE price = (SELECT price FROM movie WHERE title = 'The Firm')

Title
The Firm
The Fugitive

- 4) SELECT c.lname,c.fname, c.area
FROM customer c
JOIN invoice i ON c.cust_id = i.cust_id
WHERE i.inv_no = 'I10';

Lname	Fname	Area
Smith	James	WA

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- 5) SELECT c.fname, c.lname, i.movie_no
FROM customer c
INNER JOIN invoice i ON c.cust_id = i.cust_id;

Fname	Lname	Movie_no
Allan	Border	4
Allan	Border	9
Tina	Shields	1
Tina	Shields	3
Ravi	Kumar	5
Ravi	Kumar	6
Sunita	Rai	7
Sachin		9
James	Smith	2
James	Smith	8

- 6) SELECT c.*
FROM customer c
INNER JOIN invoice i ON c.cust_id = i.cust_id
WHERE i.movie_no = 9;

Cust_id	Lname	Fname	Area	Phone_no
A05		Sachin	DR	253489
A01	Border	Allan	SA	723622

- 7) SELECT m.title
FROM movie m
INNER JOIN invoice i ON m.movie_no = i.movie_no
INNER JOIN customer c ON c.cust_id = i.cust_id
WHERE c.fname IN ('Tina', 'Allan');

Title
Home Alone
Carry On doctor
Pretty Woman



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- 8) SELECT c.fname, c.lname, i.movie_no, m.title
FROM customer c
INNER JOIN invoice i ON c.cust_id = i.cust_id
INNER JOIN movie m ON i.movie_no = m.movie_no;

Fname	Lname	Movie_no	Title
Allan	Border	4	Home Alone
Tina	Shields	1	Carry On doctor
Tina	Shields	3	Pretty Woman
Ravi	Kumar	5	The Fugitive
Ravi	Kumar	6	Coma
Sunita	Rai	7	Dracula
James	Smith	2	The Firm
James	Smith	8	Quick Change

- 9) SELECT lname, fname, Phone_no
FROM cust
WHERE Cust_id in (SELECT Cust_id FROM INVOICE WHERE Issue_date < '08-01-1995');

lname	fname	phone_no
Border	Allan	723622
Kumar	Ravi	123784
Rai	Sunita	983724

- 10) SELECT i.cust_id, m.movie_no, m.type
FROM invoice i
INNER JOIN movie m ON i.movie_no = m.movie_no
WHERE i.cust_id IN (select cust_id from customer where cust_id='A01' or cust_id='A02');

Movie_no	Type
4	Comedy
3	Romance
1	Comedy