Practical 3: To study and implement arithmetic, comparison, logical and set operators.

ARITHMETIC OPERATORS

1. Increase deposit of all customers by Rs. 4000
        UPDATE DEPOSIT
        SET Amount = Amount + 4000;

2. Find deposit of customers of 'YES BANK' branch.
        SELECT * FROM DEPOSIT WHERE Bname = 'YES BANK';

Results	Explain	Describe	Saved SQL	History		
ACTNO		**CNAME**	**BNAME**	**AMOUNT**		**ADATE**
4		Shrushti	YES BANK	5200		12/17/1995

1 rows returned in 0.01 seconds   Download

3. Display the list of customers whose loan is more or equal to 5000.
        SELECT Cname FROM BORROW WHERE Amount >= 5000;

Results	Explain	Describe	Saved SQL	History
CNAME				
Geeta				
Ramesh				
Suresh				
Amit				
Raj				
Anita				

6 rows returned in 0.00 seconds   Download

4. Illustrate the example of operator's precedence.
        i] select 1.5 * (deposit + 1000) from deposit;

        SELECT 1.5 * (Amount + 1000) AS Result1 FROM DEPOSIT;

RESULT1
9300
12000
10500
9000
15000
18000
15000
18000

More than 10 rows available. Increase rows selector to view more rows.

ii] select 1.5 * deposit + 1000 from deposit;

SELECT 1.5 * Amount + 1000 AS Result2 FROM DEPOSIT;

RESULT2
8800
11500
10000
8500
14500
17500
14500
17500

More than 10 rows available. Increase rows selector to view more rows.

5. Display the list of customers who live in NAGPUR.

SELECT * FROM CUSTOMERS WHERE City = 'NAGPUR';

CNAME	CITY
Ramesh	Nagpur
Amit	Nagpur

2 rows returned in 0.00 seconds   Download

6. List branches in PUNE city

SELECT * FROM BRANCH WHERE City = 'DELHI';

BNAME	CITY
ANDHRA BANK	DELHI
YES BANK	DELHI
STATE BANK OF INDIA	DELHI

3 rows returned in 0.01 seconds   Download

7. Display the list of customers whose deposit is less than 5000.

SELECT Cname FROM DEPOSIT WHERE Amount < 5000;

8) Display a list of customers who deposit the amount after 1-MAR-95.
        SELECT Cname FROM DEPOSIT WHERE Adate > TO_DATE('01-MAR-1995', 'DD-MON-YYYY');

COMPARISON OPERATORS

PATTERN MATCHING & RANGE SEARCHING

1. Retrieve account number, and customer name of depositors whose deposit is between 1000 to 3000.
        SELECT Actno, Cname FROM DEPOSIT WHERE Amount BETWEEN 1000 AND 3000;

2. Retrieve all depositors with the number and amount who access the account between 1St March 95 to 4th January 96.
        SELECT Actno, Cname, Amount FROM DEPOSIT
        WHERE Adate BETWEEN TO_DATE('01-MAR-1995', 'DD-MON-YYYY')
        AND TO_DATE('04-JAN-1996', 'DD-MON-YYYY');

ACTNO	CNAME	AMOUNT
2	Aditya	9000
3	Minal	7500
4	Shrushti	5200
6	Akash	6000
7	Aniket	5000
8	Chandan	9000
9	Dushant	11000
1	Abhinav	5000

8 rows returned in 0.00 seconds   Download

3. Retrieve all bank branches whose branch names start with M or D.
      SELECT * FROM BRANCH WHERE Bname LIKE 'M%' OR Bname LIKE 'D%';

BNAME	CITY
DENA BANK	NAGPUR

1 rows returned in 0.00 seconds   Download

4. Retrieve all bank branches whose branch city starts from D and ends with L.
      SELECT * FROM BRANCH WHERE City LIKE 'D%L';

BNAME	CITY
ANDHRA BANK	DELHI
YES BANK	DELHI
STATE BANK OF INDIA	DELHI

3 rows returned in 0.00 seconds   Download

5. Retrieve all bank branches whose city's first character is M and the third character is C.
      SELECT * FROM BRANCH WHERE City LIKE 'B_N%';

BNAME	CITY
UCO	BANGLORE

1 rows returned in 0.01 seconds   Download

6. Retrieve customer names who borrow loans between 15000 to 18000.
      SELECT Cname FROM BORROW WHERE Amount BETWEEN 15000 AND 18000;

7. List the names of all depositors having 'a' as the second letter in their names.

     SELECT Cname FROM DEPOSIT WHERE Cname LIKE '_a%';

8. List the clients who deposit in a branch whose First letter is 'a.

     SELECT Cname FROM DEPOSIT WHERE Bname LIKE 'a%';

9. List all branches from

     SELECT * FROM BRANCH;