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## **SET OPERATORS IN ORACLE**

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#### **SET Operators:**

- These Operators Are Used to Combine Information of Similar DATA Type From One or More Than One Table.
- DATA Type of The Corresponding Columns in All The SELECT Statements Should Be Same.
- The Different Types of SET Operators Are
  - *UNION Operator.*
  - *UNION ALL Operator.*
  - *INTERSECT Operator.*
  - *MINUS Operator.*
- SET Operators Can Combine Two or More Queries Into One Result.
- The Result of Each SELECT Statement Can Be Treated As a Set, and SQL Set Operations Can Be Applied On Those Sets To Arrive At a Final Result.
- SQL Statements Containing SET Operations Are Referred To As a Compound Queries, SELECT Statement in a Compound Query is Referred To As a Compound Query.
- Set Operations Are Often Called Vertical joins, As The Result Combines Data From Two or More SELECT Based on Columns Instead of Rows.

#### **The Generic Syntax:**

```
<Compound Query>  
{ UNION|UNION ALL | MINUS | INTERSECT }  
<Component query>;
```

#### **UNION:**

- Combines The Results of Two SELECT Statements Into One Result Set Including The Duplicates, And Then Eliminates Any Duplicate Rows From That Result Set.

#### **UNION ALL:**

- Combines The Result of Two SELECT Statements Into One Result Set Including The Duplicates.

#### **INTERSECT:**

- Returns Only Those Rows That Are Returned By Each of Two SELECT Statements.



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### MINUS:

- Takes The Result Set of One SELECT Statement, And Removes Those Rows That Are Also Returned By a Second SELECT Statement.

### Point of Concentration:

- The Queries Are All Executed Independently But Their Output is Merged.
- Only Final Query Ends With a Semicolon.

### Rules And Restrictions:

- The Result Sets of Both The Queries Must Have The Same Number of Columns.
- The Data Type of Each Column in The Second Result Must Match The Data Type of Its Corresponding Column in The First Result Set.
- The Two SELECT Statements May Not Contain An ORDER BY Clause, The Final Result of The Entire SET Operation Can Be Ordered.
- The Columns Used For Ordering Must Be Defined Through The Column Number.

### Illustrations:

```
SQL> SELECT Empno, Ename, FROM Emp WHERE Deptno = 10
                                UNION
        SELECT Empno, Ename FROM Emp WHERE Deptno = 30 ORDER BY 1;
SQL> SELECT Empno, Ename, Job FROM Emp WHERE Deptno = ( SELECT
Deptno FROM Dept WHERE Dname = 'SALES' )
                                UNION
        SELECT Empno, Ename, Job FROM Emp WHERE Deptno = ( SELECT Deptno
FROM Dept WHERE Dname = 'ACCOUNTING' ) ORDER BY 1;
SQL> SELECT Empno, Ename FROM Emp WHERE Deptno=10
                                UNION ALL
        SELECT Empno, Ename FROM Emp WHERE Deptno=30 ORDER BY 1;
SQL> SELECT Empno, Ename FROM Emp WHERE Deptno=10
                                INTERSECT
        SELECT Empno, Ename FROM Emp WHERE Deptno=30 ORDER BY 1;
SQL> SELECT Empno, Ename FROM Emp WHERE Deptno=10
                                MINUS
        SELECT Empno, Ename FROM Emp WHERE Deptno=30 ORDER BY 1;
SQL> SELECT Job FROM Emp WHERE Deptno=20
                                UNION
        SELECT Job FROM Emp WHERE Deptno=30;
SQL> SELECT Job FROM Emp WHERE Deptno=20
                                UNION ALL
        SELECT Job FROM Emp WHERE Deptno=30;
SQL> SELECT Job FROM Emp WHERE Deptno=20
                                INTERSECT
```



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```
SELECT Job FROM Emp WHERE Deptno=30;
SQL> SELECT Job FROM Emp WHERE Deptno=20
      MINUS
      SELECT Job FROM Emp WHERE Deptno=30;
SQL> SELECT ROWNUM, Ename FROM Emp WHERE ROWNUM<7
      MINUS
      SELECT ROWNUM, Ename FROM Emp WHERE ROWNUM<6;
```



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