

Experiment No 6  
Operators

1. Like

Existing Table

```
SQL> select * from students;
```

S_ID	S_NAME	S_AGE	S_ADD
1	Hermione	22	London
2	Harry	22	Paris
3	Ron	24	UK
4	Dumbledore	44	US
5	Draco	24	England
6	Ginny	23	Newyork
7	Voldemort	30	Chicago
8	Sirius	30	Atlanta
9	Dolores	30	Tokyo
10	Hedwig	30	Shanghai

10 rows selected.

```
SQL> select * from students where s_name like 'H%';
```

S_ID	S_NAME	S_AGE	S_ADD
1	Hermione	22	London
2	Harry	22	Paris
10	Hedwig	30	Shanghai

```
SQL> select * from students where s_name like '%e';
```

S_ID	S_NAME	S_AGE	S_ADD
1	Hermione	22	London
4	Dumbledore	44	US

```
SQL> select * from students where s_name like '__r%_';
```

S_ID	S_NAME	S_AGE	S_ADD
1	Hermione	22	London
2	Harry	22	Paris
8	Sirius	30	Atlanta

2. Concatenate Operator

```
SQL> select s_id||'-'||s_name from students;
```

```
S_ID||'-'||S_NAME
```

S_ID  '-'  S_NAME
1-Hermione
2-Harry
3-Ron
4-Dumbledore
5-Draco
6-Ginny
7-Voldemort
8-Sirius
9-Dolores
10-Hedwig

10 rows selected.

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### 3.Comparison Operator

```
SQL> select s_age,s_name from students where s_age<25;
```

S_AGE	S_NAME
22	Hermione
22	Harry
24	Ron
24	Draco
23	Ginny

### 4.Logical Operator

```
SQL> select * from employees;
```

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18
5	Dumbledore	88	300000	03-FEB-12

```
SQL> select * from employees where e_age<25 AND e_salary >=450000;
```

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18

```
SQL> select * from employees where e_age<25 OR e_salary >=450000;
```

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18

```
SQL> select * from employees where e_age is not null;
```

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18
5	Dumbledore	88	300000	03-FEB-12

### 5. Arithmetic operator

```
SQL> select * from employees;
```

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18
5	Dumbledore	88	300000	03-FEB-12

```
SQL> select  
2 e_id,e_name,e_salary,  
3 e_salary+(e_salary*20/100) as New_sal  
4 from employees;
```

E_ID	E_NAME	E_SALARY	NEW_SAL
1	Hermione	500000	600000
2	Harry	450000	540000
3	Ron	400000	480000
4	Voldemort	500000	600000
5	Dumbledore	300000	360000

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6.Order by

E_ID	E_NAME	E_SALARY	NEW_SAL
1	Hermione	500000	600000
2	Harry	450000	540000
3	Ron	400000	480000
4	Voldemort	500000	600000
5	Dumbledore	300000	360000

SQL> select \* from employees order by e\_name;

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
5	Dumbledore	88	300000	03-FEB-12
2	Harry	22	450000	02-JAN-18
1	Hermione	22	500000	01-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18

SQL> select \* from employees order by e\_name desc;

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
4	Voldemort	35	500000	03-FEB-18
3	Ron	23	400000	03-JAN-18
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
5	Dumbledore	88	300000	03-FEB-12

7.Aliases

SQL> select \* from employees;

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18
5	Dumbledore	88	300000	03-FEB-12

SQL> select e\_id as id,e\_name as name,e\_salary as salary from employees;

ID	NAME	SALARY
1	Hermione	500000
2	Harry	450000
3	Ron	400000
4	Voldemort	500000
5	Dumbledore	300000

8.IN

SQL> select \* from employees;

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
1	Hermione	22	500000	01-JAN-18
2	Harry	22	450000	02-JAN-18
3	Ron	23	400000	03-JAN-18
4	Voldemort	35	500000	03-FEB-18
5	Dumbledore	88	300000	03-FEB-12

SQL> select \* from employees where e\_age in (30,35);

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
4	Voldemort	35	500000	03-FEB-18

SQL> select \* from employees where e\_age between 30 AND 35;

E_ID	E_NAME	E_AGE	E_SALARY	E_JOIN_DA
4	Voldemort	35	500000	03-FEB-18