

Creating, inserting and delete table using Operators

```
SQL> create table emp0(eno number(3) primary key,name varchar(15),des  
varchar(15),gender char,age number(2),doj date,salary number(6));
```

Table created.

```
SQL> describe emp
```

Name	Null?	Type
-----	-----	-----
ENO	NOT NULL	NUMBER(3)
NAME		VARCHAR2(15)
DES		VARCHAR2(15)
GENDER		CHAR(1)
AGE		NUMBER(2)
DOJ		DATE
SALARY		NUMBER(6)

```
SQL> insert into emp values(100,'Kevin','network admin','m',25,'12-feb-13',40000);
```

1 row created.

```
SQL> insert into emp values(101,'Ben','project manager','m',32,'10-aug-09',200000);
```

1 row created.

```
SQL> insert into emp values(102,'Jack','developer','m',28,'03-mar-12',32000);
```

1 row created.

```
SQL> insert into emp values(103,'Krish','team leader','m',27,'12-nov-10',70000);
```

1 row created.

```
SQL> insert into emp values(104,'Johny','developer','m',26,'24-oct-14',30000);
```

1 row created.

```
SQL> insert into emp values(105,'Bheem','','m',28,'11-oct-13',35000);
```

1 row created.

```
SQL> insert into emp values(106,'Raju','developer','m',24,'04-apr-14',28000);
```

1 row created.

```
SQL> insert into emp values(107,'Suzen','network admin','f',26,'08-may-2011',45000);
```

1 row created.

```
SQL> insert into emp values(108,'Nila','team leader','f',26,'10-may-12',68000);
```

1 row created.

```
SQL> insert into emp values(109,'Mellina','developer','f',23,'22-aug-15',25000);
```

1 row created.

```
SQL> insert into emp values(110,'Jessy','f',22,'31-dec-15',25000);
```

1 row created.

```
SQL> select * from emp;
```

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
100	Kevin	network admin	m	25	12-FEB-13	40000
101	Ben	project manager	m	32	10-AUG-09	200000
102	Jack	developer	m	28	03-MAR-12	32000
103	Krish	team leader	m	27	12-NOV-10	70000
104	Johny	developer	m	26	24-OCT-14	30000
105	Bheem	developer	m	28	11-OCT-13	35000
106	Raju	developer	m	24	04-APR-14	28000
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000
109	Mellina	developer	f	23	22-AUG-15	25000
110	Jessy		f	22	31-DEC-15	25000

11 rows selected.

Comparison Operators

```
SQL> select * from emp where des is null;
```

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
105	Bheem		m	28	11-OCT-13	35000
110	Jessy		f	22	31-DEC-15	25000

SQL> select * from emp where salary **between** 20000 **and** 30000;

ENO	NAME	DES	G	AGE	DOJ	SALARY
104	Johny	developer	m	26	24-OCT-14	30000
106	Raju	developer	m	24	04-APR-14	28000
109	Mellina	developer	f	23	22-AUG-15	25000
110	Jessy		f	22	31-DEC-15	25000

SQL> select * from emp where eno **in**(102,104,107);

ENO	NAME	DES	G	AGE	DOJ	SALARY
102	Jack	developer	m	28	03-MAR-12	32000
104	Johny	developer	m	26	24-OCT-14	30000
107	Suzen	network admin	f	26	08-MAY-11	45000

SQL> select * from emp where name **like** 'J%';

ENO	NAME	DES	G	AGE	DOJ	SALARY
102	Jack	developer	m	28	03-MAR-12	32000
104	Johny	developer	m	26	24-OCT-14	30000
110	Jessy		f	22	31-DEC-15	25000

Logical Operator

SQL> select * from emp where salary>30000 **and** des='developer';

ENO	NAME	DES	G	AGE	DOJ	SALARY
102	Jack	developer	m	28	03-MAR-12	32000

SQL> select * from emp where salary>30000 **or** des='developer';

ENO	NAME	DES	G	AGE	DOJ	SALARY
100	Kevin	network admin	m	25	12-FEB-13	40000
101	Ben	project manager	m	32	10-AUG-09	200000
102	Jack	developer	m	28	03-MAR-12	32000
103	Krish	team leader	m	27	12-NOV-10	70000
104	Johny	developer	m	26	24-OCT-14	30000
105	Bheem		m	28	11-OCT-13	35000

106	Raju	developer	m	24	04-APR-14	28000
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000
109	Mellina	developer	f	23	22-AUG-15	25000

10 rows selected.

SQL> select * from emp where des is **not** null;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
100	Kevin	network admin	m	25	12-FEB-13	40000
101	Ben	project manager	m	32	10-AUG-09	200000
102	Jack	developer	m	28	03-MAR-12	32000
103	Krish	team leader	m	27	12-NOV-10	70000
104	Johny	developer	m	26	24-OCT-14	30000
106	Raju	developer	m	24	04-APR-14	28000
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000
109	Mellina	developer	f	23	22-AUG-15	25000

9 rows selected.

Set Operators

SQL> select * from emp where salary>30000 **union** select * from emp where age=26;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
100	Kevin	network admin	m	25	12-FEB-13	40000
101	Ben	project manager	m	32	10-AUG-09	200000
102	Jack	developer	m	28	03-MAR-12	32000
103	Krish	team leader	m	27	12-NOV-10	70000
104	Johny	developer	m	26	24-OCT-14	30000
105	Bheem		m	28	11-OCT-13	35000
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000

8 rows selected.

SQL> select * from emp where salary>30000 **union all** select * from emp where age=26;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
100	Kevin	network admin	m	25	12-FEB-13	40000

101	Ben	project manager	m	32	10-AUG-09	200000
102	Jack	developer	m	28	03-MAR-12	32000
103	Krish	team leader	m	27	12-NOV-10	70000
105	Bheem		m	28	11-OCT-13	35000
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000
104	Johny	developer	m	26	24-OCT-14	30000
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000

10 rows selected.

SQL> select * from emp where salary>30000 **intersect** select * from emp where age=26;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
107	Suzen	network admin	f	26	08-MAY-11	45000
108	Nila	team leader	f	26	10-MAY-12	68000

SQL> select * from emp where salary>30000 **minus** select * from emp where age=26;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
100	Kevin	network admin	m	25	12-FEB-13	40000
101	Ben	project manager	m	32	10-AUG-09	200000
102	Jack	developer	m	28	03-MAR-12	32000
103	Krish	team leader	m	27	12-NOV-10	70000
105	Bheem		m	28	11-OCT-13	35000

Sort Operators

SQL> select * from emp order by name **asc**;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
101	Ben	project manager	m	32	10-AUG-09	200000
105	Bheem		m	28	11-OCT-13	35000
102	Jack	developer	m	28	03-MAR-12	32000
110	Jessy		f	22	31-DEC-15	25000
104	Johny	developer	m	26	24-OCT-14	30000
100	Kevin	network admin	m	25	12-FEB-13	40000
103	Krish	team leader	m	27	12-NOV-10	70000
109	Mellina	developer	f	23	22-AUG-15	25000
108	Nila	team leader	f	26	10-MAY-12	68000
106	Raju	developer	m	24	04-APR-14	28000

107	Suzen	network admin	f	26	08-MAY-11	45000
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11 rows selected.

SQL> select * from emp order by name **desc**;

ENO	NAME	DES	G	AGE	DOJ	SALARY
-----	-----	-----	-	-----	-----	-----
107	Suzen	network admin	f	26	08-MAY-11	45000
106	Raju	developer	m	24	04-APR-14	28000
108	Nila	team leader	f	26	10-MAY-12	68000
109	Mellina	developer	f	23	22-AUG-15	25000
103	Krish	team leader	m	27	2-NOV-10	70000
100	Kevin	network admin	m	25	12-FEB-13	40000
104	Johny	developer	m	26	24-OCT-14	30000
110	Jessy		f	22	31-DEC-15	25000
102	Jack	developer	m	28	03-MAR-12	32000
105	Bheem		m	28	11-OCT-13	35000
101	Ben	project manager	m	32	10-AUG-09	200000

11 rows selected.

Grouping Opertors

SQL> select **sum**(salary),**avg**(salary),**max**(salary),**min**(salary),**count**(name) from emp;

SUM(SALARY)	AVG(SALARY)	MAX(SALARY)	MIN(SALARY)	COUNT(NAME)
-----	-----	-----	-----	-----
598000	54363.6364	200000	25000	11