```
SQL> select *from stud;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       104 Jana               35
       105 Sundar             30

SQL> select *from stud where name like 'na%';

no rows selected

SQL> select *from stud where name like '__na%';

       RNO NAME              AGE
---------- ---------- ----------
       103 Dana               29
       104 Jana               35

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

       RNO NAME              AGE
---------- ---------- ----------
       104 Jana               35

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

no rows selected

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

       RNO NAME              AGE
---------- ---------- ----------
       104 Jana               35

SQL> select *from stud where name like 'D%';

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       103 Dana               29

SQL> select *from stud where name like 'D%' and 'J%';
select *from stud where name like 'D%' and 'J%'
                                           *
ERROR at line 1:
ORA-00920: invalid relational operator
```

```
SQL> select *from stud where name between 'D%' and 'J%';

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       103 Dana               29

SQL> select *from stud where name between 'D%' and 'K%';

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       103 Dana               29
       104 Jana               35

SQL> select *from stud where name between 'D%' and 'S%';

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       104 Jana               35

SQL> select *from stud where name between 'J%' and 'S%';

       RNO NAME              AGE
---------- ---------- ----------
       102 Raman              27
       104 Jana               35

SQL> Delete from stud where rno=104;

1 row deleted.

SQL> select *from stud;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30

SQL> desc stud;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 RNO                                                NUMBER
 NAME                                               CHAR(10)
```

```
 AGE                                                    NUMBER

SQL> insert into stud values (106,'Vasanth',23);

1 row created.

SQL> insert into stud values (&rno,'&name',&age);
Enter value for rno: 107
Enter value for name: Kapil
Enter value for age: 23
old   1: insert into stud values (&rno,'&name',&age)
new   1: insert into stud values (107,'Kapil',23)

1 row created.

SQL> /
Enter value for rno: 108
Enter value for name: Viswa
Enter value for age: 23
old   1: insert into stud values (&rno,'&name',&age)
new   1: insert into stud values (108,'Viswa',23)

1 row created.

SQL> select *from stud;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       106 Vasanth            23
       107 Kapil              23
       108 Viswa              23

7 rows selected.

SQL> select name,age from stud where age=23;

NAME              AGE
---------- ----------
Vasanth            23
Kapil              23
Viswa              23

SQL> insert into stud (rno,name) values(109,'Meena');

1 row created.
```

```
SQL> select *from stud;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       106 Vasanth            23
       107 Kapil              23
       108 Viswa              23
       109 Meena

8 rows selected.

SQL> update stud set age=21 where name='Meena';

1 row updated.

SQL> select *from stud;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       106 Vasanth            23
       107 Kapil              23
       108 Viswa              23
       109 Meena              21

8 rows selected.

SQL> select *from stud where name in ('Kapil','Vasanth');

       RNO NAME              AGE
---------- ---------- ----------
       106 Vasanth            23
       107 Kapil              23

SQL> select *from stud where name not in ('Kapil','Vasanth');

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       108 Viswa              23
```

```
       109 Meena              21

6 rows selected.

SQL> select *from stud order by name;

       RNO NAME              AGE
---------- ---------- ----------
       103 Dana               29
       101 Dinesh             24
       107 Kapil              23
       109 Meena              21
       102 Raman              27
       105 Sundar             30
       106 Vasanth            23
       108 Viswa              23

8 rows selected.

SQL> select *from stud order by name desc;

       RNO NAME              AGE
---------- ---------- ----------
       108 Viswa              23
       106 Vasanth            23
       105 Sundar             30
       102 Raman              27
       109 Meena              21
       107 Kapil              23
       101 Dinesh             24
       103 Dana               29

8 rows selected.

SQL> select *from stud order by rno asc;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       106 Vasanth            23
       107 Kapil              23
       108 Viswa              23
       109 Meena              21

8 rows selected.

SQL> commit;
```

```
Commit complete.

SQL> insert into stud values (&rno,'&name',&age);
Enter value for rno: 110
Enter value for name: Mugil
Enter value for age: 25
old   1: insert into stud values (&rno,'&name',&age)
new   1: insert into stud values (110,'Mugil',25)

1 row created.

SQL> savepoint s1;

Savepoint created.

SQL> insert into stud values (&rno,'&name',&age);
Enter value for rno: 111
Enter value for name: Guru
Enter value for age: 31
old   1: insert into stud values (&rno,'&name',&age)
new   1: insert into stud values (111,'Guru',31)

1 row created.

SQL> /
Enter value for rno: 112
Enter value for name: Ragu
Enter value for age: 34
old   1: insert into stud values (&rno,'&name',&age)
new   1: insert into stud values (112,'Ragu',34)

1 row created.

SQL> select *from stud;

       RNO NAME              AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       106 Vasanth            23
       107 Kapil              23
       108 Viswa              23
       109 Meena              21
       110 Mugil              25
       111 Guru               31
       112 Ragu               34
```

```
11 rows selected.

SQL> rollback to savepoint s1;

Rollback complete.

SQL> select *from stud;

       RNO NAME               AGE
---------- ---------- ----------
       101 Dinesh              24
       102 Raman               27
       103 Dana                29
       105 Sundar              30
       106 Vasanth             23
       107 Kapil               23
       108 Viswa               23
       109 Meena               21
       110 Mugil               25

9 rows selected.

SQL> savepoint s2;

Savepoint created.

SQL> update stud set age=30 where name='Mugil';

1 row updated.

SQL> select *from stud;

       RNO NAME               AGE
---------- ---------- ----------
       101 Dinesh              24
       102 Raman               27
       103 Dana                29
       105 Sundar              30
       106 Vasanth             23
       107 Kapil               23
       108 Viswa               23
       109 Meena               21
       110 Mugil               30

9 rows selected.

SQL> rollback to savepoint s2;

Rollback complete.
```

```
SQL> select *from stud;

       RNO NAME               AGE
---------- ---------- ----------
       101 Dinesh             24
       102 Raman              27
       103 Dana               29
       105 Sundar             30
       106 Vasanth            23
       107 Kapil              23
       108 Viswa              23
       109 Meena              21
       110 Mugil              25

9 rows selected.

SQL> spool off;
```