CREATE TABLE:

Column Name	Data Type	Nullable
REGNO	NUMBER(20,0)	Yes
STUDENTNAME	VARCHAR2(38)	Yes
DATEOFBIRTH	DATE	Yes

ADD COLUMN:

Column Name	Data Type	Nullable
REGNO	NUMBER(20,0)	Yes
STUDENTNAME	VARCHAR2(38)	Yes
DATEOFBIRTH	DATE	Yes
BLOODGROUP	CHAR(10)	Yes

PRIMARY KEY:

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	VARCHAR2(38)	Yes	-	-
DATEOFBIRTH	DATE	Yes	-	-
BLOODGROUP	CHAR(10)	Yes	-	-

Left Splitter

ADD COLUMN:

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	VARCHAR2(38)	Yes	-	-
DATEOFBIRTH	DATE	Yes	-	-
BLOODGROUP	CHAR(10)	Yes	-	-
HOBBY	CHAR(30)	Yes	-	-

Left Splitter

DROP:

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	VARCHAR2(38)	Yes	-	-
DATEOFBIRTH	DATE	Yes	-	-
BLOODGROUP	CHAR(10)	Yes	-	-

MODIFY:

REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	VARCHAR2(38)	Yes	-	-
DOB	DATE	Yes	-	-
BLOODGROUP	CHAR(10)	Yes	-	-

NULL:

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	VARCHAR2(38)	No	-	-
DOB	DATE	Yes	-	-
BLOODGROUP	CHAR(10)	Yes	-	-

SIZE CHANGE:

Add Column | Modify Column | Rename Column | Drop Column | Rename | Copy | Drop | Truncate | Create Lookup Table | Create App

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	VARCHAR2(38)	No	-	-
DOB	DATE	Yes	-	-
BLOODGROUP	CHAR(100)	Yes	-	-

DATATYPE MODIFY:

Column Name	Data Type	Nullable	Default	Primary Key
REGNO	NUMBER(20,0)	No	-	1
STUDENTNAME	CHAR(100)	No	-	-
DOB	DATE	Yes	-	-
BLOODGROUP	CHAR(100)	Yes	-	-

INSERT VALUES:

EDIT	REGNO	STUDENTNAME	DOB	BLOODGROUP
	192311189	TEJU	27-Jul-2024	O+

INSERTING MULTIPLE VALUES FOR ROWS:

EDIT	REGNO	STUDENTNAME	DOB	BLOODGROUP
	192311189	TEJU	27-Jul-2024	O+
	192311169	GOUTHAM	27-Jul-2024	O+
	192311180	EDUKONDALU	27-Jul-2024	B+

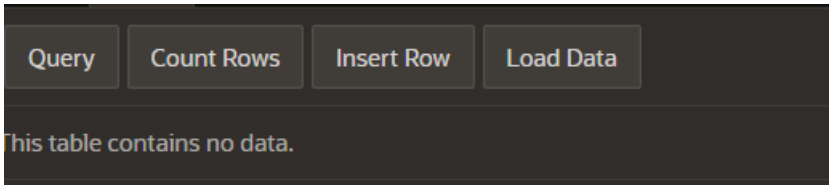
DELETE A ROW:

```
DELETE FROM student where BLOODGROUP='B+'
```

EDIT	REGNO	STUDENTNAME	DOB	BLOODGROUP
	192355369	MIKE	-	A+
	192311189	TEJU	27-Jul-2024	O+
	192311169	GOUTHAM	27-Jul-2024	O+

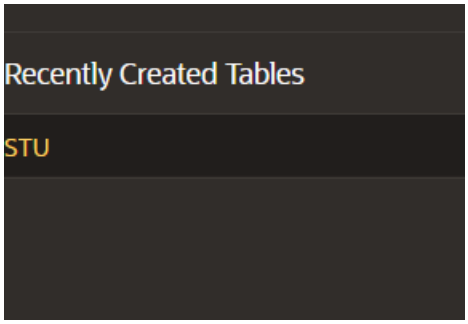
DELETE ALL THE DATA FROM TABLE:

```
DELETE FROM  student;
```



DROP ALL THE TABLE:

```
DROP TABLE student;
```



SELECTING ALL ROWS AND COLUMNS FROM TABLE:

```
SELECT*FROM stu;
```

STUDENTID	FIRSTNAME	LASTNAME	MARKS
45	ROHIT	SHARMA	100
89	TEJU	B	100

Selecting a single row:

```
SELECT LASTNAME FROM stu WHERE LASTNAME='B'
```

LASTNAME
B

Select marks as studentmarks:

```
SELECT MARKS AS STUDENTMARKS FROM stu
```

STUDENTMARKS
90
99
89
92
100
100

Select using “||”:

```
SELECT firstname || lastname from stu
```

FIRSTNAME||LASTNAME
GOUTHAM NANDHA
VIRAT KOHLI
surya sky
yuvraj singh
ROHIT SHARMA
TEJU B

Select using “||” and AS:

```
SELECT firstname || lastname as names from stu
```

NAMES
GOUTHAM NANDHA
VIRAT KOHLI
surya sky
yuvraj singh
ROHIT SHARMA
TEJU B

AND OPERATOR:

```
SELECT FIRSTNAME,STUDENTID,MARKS FROM stu
where STUDENTID < 90 AND MARKS > 90;
```

```
SELECT FIRSTNAME,STUDENTID,MARKS FROM stu where STUDENTID < 90 AND MARKS > 90
```

FIRSTNAME	STUDENTID	MARKS
VIRAT	18	99
yuvraj	12	92
ROHIT	45	100
TEJU	89	100

OR OPERATOR:

```
1   SELECT FIRSTNAME,STUDENTID,MARKS FROM stu
2   where STUDENTID =99 OR MARKS = 100;
3
```

```
SELECT FIRSTNAME,STUDENTID,MARKS FROM stu where STUDENTID =99 OR MARKS = 100
```

FIRSTNAME	STUDENTID	MARKS
GOUTHAM	99	90
ROHIT	45	100
TEJU	89	100

Close

SORTING:

```
1   SELECT FIRSTNAME,STUDENTID FROM stu
2   order by STUDENTID;
3
```

```
SELECT FIRSTNAME,STUDENTID FROM stu order by STUDENTID
```

FIRSTNAME	STUDENTID
yuvraj	12
VIRAT	18
ROHIT	45
surya	63
TEJU	89
GOUTHAM	99

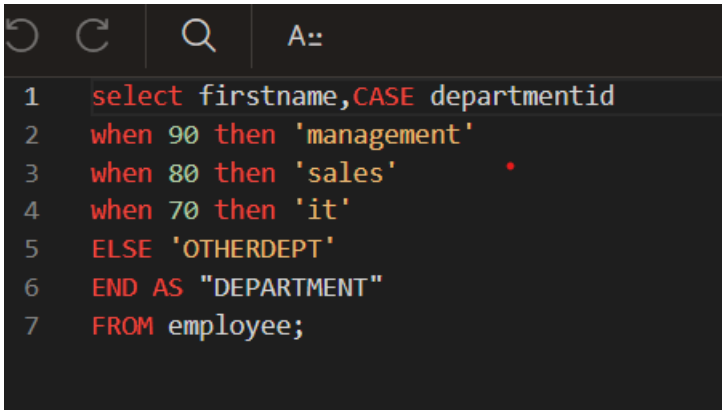
DESCENDIND ORDER:

```
1   SELECT FIRSTNAME,STUDENTID FROM stu
2   order by STUDENTID DESC;
3
```

```
SELECT FIRSTNAME,STUDENTID FROM stu order by STUDENTID DESC
```

FIRSTNAME	STUDENTID
GOUTHAM	99
TEJU	89
surya	63
ROHIT	45
VIRAT	18
yuvraj	12

Conditional expressions:

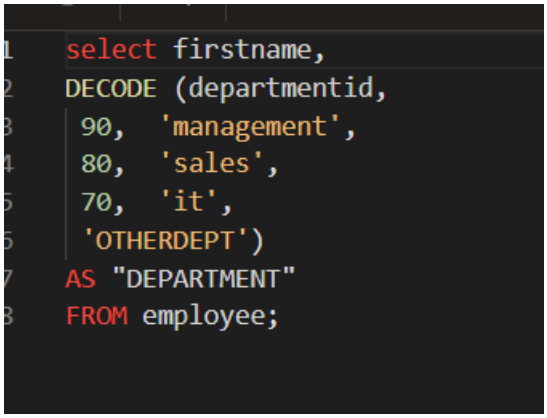


```
1  select firstname,CASE departmentid
2  when 90 then 'management'
3  when 80 then 'sales'
4  when 70 then 'it'
5  ELSE 'OTHERDEPT'
6  END AS "DEPARTMENT"
7  FROM employee;
```

```
select firstname,CASE departmentid when 90 then 'management' when 80 then 'sales' when 70 then 'it' ELSE 'OTHERDEPT' END AS "DEPARTMENT" FROM employee
```

FIRSTNAME	DEPARTMENT
tej	OTHERDEPT
mahesh	management
surya	sales
rohit	it

DECODE:



```
1  select firstname,
2  DECODE (departmentid,
3   90,  'management',
4   80,  'sales',
5   70,  'it',
6   'OTHERDEPT')
7  AS "DEPARTMENT"
8  FROM employee;
```

```
select firstname, DECODE (departmentid,  90,  'management',  80,  'sales',  70,  'it',  'OTHERDEPT') AS "DEPARTMENT" FROM employee
```

FIRSTNAME	DEPARTMENT
tej	OTHERDEPT
mahesh	management
surya	sales
rohit	it

4 rows selected. 0.00 seconds

USING CLAUSE:

```
1  select DEPARTMENTID,MANAGERID,FIRSTNAME
2  from EMPO JOIN EMPLOYEE USING (DEPARTMENTID);
```

```
select DEPARTMENTID,MANAGERID,FIRSTNAME from EMPO JOIN EMPLOYEE USING (DEPARTMENTID)
```

DEPARTMENTID	MANAGERID	FIRSTNAME
89	9989	tej

Left outer join:

```
SELECT e.FIRSTNAME,e.DEPARTMENTID,d.MANAGERID
FROM EMPLOYEE e left outer join EMPO d
on (e.DEPARTMENTID=d.MANAGERID);
```

FIRSTNAME	DEPARTMENTID	MANAGERID
mahesh	90	-
rohit	70	-
tej	89	-
surya	80	-

Right outer join:

```
SELECT e.FIRSTNAME,e.DEPARTMENTID,d.MANAGERID
FROM EMPLOYEE e right outer join EMPO d
on (e.DEPARTMENTID=d.MANAGERID);
```

```
SELECT e.FIRSTNAME,e.DEPARTMENTID,d.MANAGERID FROM EMPLOYEE e right outer join EMPO d on
(e.DEPARTMENTID=d.MANAGERID)
```

FIRSTNAME	DEPARTMENTID	MANAGERID
-	-	9989
-	-	8888
-	-	8182
-	-	17
-	-	37
-	-	5068
-	-	33
-	-	19

Select join :

```
1   SELECT worker.FIRSTNAME||'works for'||employee.DEPARTMENTID as "works for"
2   FROM EMPLOYEE worker  join EMPO employee
3   on (worker.DEPARTMENTID=employee.DEPARTMENTID);
```

```
SELECT worker.FIRSTNAME||'works for'||employee.DEPARTMENTID as "works for" FROM EMPLOY
EMPO employee on (worker.DEPARTMENTID=employee.DEPARTMENTID)
```

works for
tej works for89