```
SQL> SELECT * FROM Student;

ROLLNO    SNAME                 G CITY                 EMAIL
--------  --------------------  - ------------------   ----------------------------------
1901CS99  Bhargav               M Chennai              Bhargav@gmail.com
1901CS98  Vennela               F Delhi                Vennela@yahoo.com
1901EC97  Nikki                 F Delhi                Nikki@gmail.com
1901EC96  Abhi                  M Mumbai               Abhi@gmail.com
1901ME95  Mrunal                F Mumbai               Mrunal@yahoo.com

SQL> SELECT * FROM Course;

CCODE CNAME                    CREDIT CTYPE
----- --------------------    ---------- --------------------
CS500 DBMS                          4 Core
CS501 AI                            3 Elective
EC300 DC                            4 Core
EC301 DSD                           3 Elective
ME400 MS                            2 Openelective
ME401 TM                            4 Openelective

6 rows selected.

SQL> SELECT * FROM Enrolled;

ROLLNO    CCODE       YOE
--------  -----  ----------
1901CS99  CS500       2020
1901CS99  CS501       2020
1901CS99  EC300       2020
1901CS99  EC301       2020
1901CS99  ME400       2020
1901EC96  CS500       2021
1901EC96  EC300       2022
1901EC96  EC301       2021
1901CS98  CS501       2019
1901EC97  CS501       2021
1901ME95  ME401       2021

11 rows selected.
```

```
11 rows selected.

SQL> --B
SQL> CREATE OR REPLACE VIEW startcscode AS(
  2  SELECT Cname FROM Course where Ccode like 'CS%');

View created.

SQL> SELECT * FROM startcscode;

CNAME
--------------------
DBMS
AI

SQL> --C
SQL> CREATE OR REPLACE VIEW ainnames AS(
  2  SELECT Sname FROM Student where Sname like '%a%a%');

View created.

SQL> SELECT * FROM ainnames;

SNAME
--------------------
Bhargav

SQL> --D
SQL> CREATE OR REPLACE VIEW notenrolled AS(
  2  SELECT * FROM Student WHERE Rollno IN
  3  (SELECT Rollno FROM Enrolled WHERE Yoe NOT IN (2018, 2019)));

View created.

SQL> SELECT * FROM notenrolled;

ROLLNO    SNAME                G CITY                 EMAIL
--------  -------------------- - -------------------  --------------------------------
1901CS99  Bhargav              M Chennai              Bhargav@gmail.com
1901EC96  Abhi                 M Mumbai               Abhi@gmail.com
```

```
SQL> --D
SQL> CREATE OR REPLACE VIEW notenrolled AS(
  2  SELECT * FROM Student WHERE Rollno IN
  3  (SELECT Rollno FROM Enrolled WHERE Yoe NOT IN (2018, 2019)));

View created.

SQL> SELECT * FROM notenrolled;

ROLLNO    SNAME                 G CITY                 EMAIL
--------  --------------------  - --------------------  --------------------------------
1901CS99  Bhargav               M Chennai              Bhargav@gmail.com
1901EC96  Abhi                  M Mumbai               Abhi@gmail.com
1901EC97  Nikki                 F Delhi                Nikki@gmail.com
1901ME95  Mrunal                F Mumbai               Mrunal@yahoo.com

SQL> --E
SQL> CREATE OR REPLACE VIEW leastcredit AS(
  2     SELECT * FROM Course where Credit IN(SELECT min(Credit) FROM Course));

View created.

SQL> SELECT * FROM leastcredit;

CCODE CNAME                    CREDIT CTYPE
----- --------------------  ---------- --------------------
ME400 MS                             2 Openelective

SQL> --F
SQL> CREATE OR REPLACE VIEW notin2020 AS(
  2  SELECT Cname FROM Course WHERE Ccode IN (SELECT Ccode FROM Enrolled WHERE Yoe NOT IN (2020)));

View created.

SQL> SELECT * FROM notin2020;

CNAME
--------------------
DBMS
DC
```

ME400 MS   2 Openelective

SQL> --F
SQL> CREATE OR REPLACE VIEW notin2020 AS(
  2 SELECT Cname FROM Course WHERE Ccode IN (SELECT Ccode FROM Enrolled WHERE Yoe NOT IN (2020)));

View created.

SQL> SELECT * FROM notin2020;

CNAME

DBMS
DC
DSD
AI
TM

SQL> --G
SQL> CREATE OR REPLACE VIEW studentfromcity AS(
  2 SELECT City, COUNT(Rollno) AS numcity FROM Student GROUP BY City);

View created.

SQL> SELECT * FROM studentfromcity;

CITY   NUMCITY
-------------------- ----------
Delhi   2
Mumbai   2
Chennai   1

SQL> --H
SQL> CREATE OR REPLACE VIEW enrollin5courses AS(
  2 SELECT Rollno FROM Enrolled GROUP BY Rollno HAVING COUNT(CCode) = 5);

View created.

SQL> SELECT * FROM enrollin5courses;

ROLLNO

```
Chennai                         1

SQL> --H
SQL> CREATE OR REPLACE VIEW enrollin5courses AS(
  2  SELECT Rollno FROM Enrolled GROUP BY Rollno HAVING COUNT(CCode) = 5);

View created.

SQL> SELECT * FROM enrollin5courses;

ROLLNO
--------
1901CS99

SQL> --I
SQL> CREATE OR REPLACE VIEW coursestakenby1901CS99 AS(
  2  SELECT COUNT(Rollno) AS numcourses FROM Enrolled WHERE Rollno = '1901CS99');

View created.

SQL> SELECT * FROM coursestakenby1901CS99;

NUMCOURSES
---------
        5

SQL> --J
SQL> CREATE OR REPLACE VIEW level5course AS(
  2     SELECT * FROM Course WHERE Ccode LIKE 'CS5%');

View created.

SQL>    SELECT * FROM level5course;

CCODE CNAME                   CREDIT CTYPE
----- -------------------- ---------- --------------------
CS500 DBMS                       4 Core
CS501 AI                         3 Elective

SQL> --K
SQL> CREATE OR REPLACE VIEW roll AS(
```

```
CS500 DBMS                          4 Core
CS501 AI                            3 Elective

SQL> --K
SQL> CREATE OR REPLACE VIEW roll AS(
  2      SELECT COUNT(Rollno) AS numstudents FROM Student WHERE Rollno LIKE '%CS%');

View created.

SQL>    SELECT * FROM roll;

NUMSTUDENTS
-----------
          2

SQL> --L
SQL> CREATE OR REPLACE VIEW course4in2020 AS(
  2  SELECT Rollno FROM Enrolled WHERE Yoe = 2020 GROUP BY Rollno HAVING COUNT(Ccode)>4);

View created.

SQL> SELECT * FROM course4in2020;

ROLLNO
--------
1901CS99

SQL> --M
SQL> CREATE OR REPLACE VIEW femaledelhi AS(
  2  SELECT DISTINCT(Ccode)
  3  FROM Enrolled INNER JOIN Student
  4  ON Enrolled.Rollno = Student.Rollno AND Student.City = 'Delhi' AND Student.Gender = 'F');

View created.

SQL> SELECT * FROM femaledelhi;

CCODE
-----
CS501
```

```
SQL> --M
SQL> CREATE OR REPLACE VIEW femaledelhi AS(
  2  SELECT DISTINCT(Ccode)
  3  FROM Enrolled INNER JOIN Student
  4  ON Enrolled.Rollno = Student.Rollno AND Student.City = 'Delhi' AND Student.Gender = 'F');

View created.

SQL> SELECT * FROM femaledelhi;

CCODE
-----
CS501

SQL> --N
SQL> CREATE OR REPLACE VIEW gmail AS(
  2      SELECT Sname FROM Student WHERE Email LIKE '%@gmail.com' OR Email LIKE '%@yahoo.com');

View created.

SQL>    SELECT * FROM gmail;

SNAME
--------------------
Bhargav
Vennela
Nikki
Abhi
Mrunal

SQL> --O
SQL> CREATE OR REPLACE VIEW allcourses AS(
  2  SELECT Rollno FROM Enrolled GROUP BY Rollno HAVING COUNT(Ccode) = (SELECT COUNT(Ccode) FROM Course));

View created.

SQL> SELECT * FROM allcourses;

no rows selected

SQL>
```