```
Command Prompt - sqlplus                                                    —   □   ×

SQL> SELECT committees.name FROM committees
  2  LEFT JOIN member
  3  ON committees.name = member.name
  4  MINUS
  5  SELECT committees.name FROM committees
  6  INNER JOIN member
  7  ON committees.name = member.name;

NAME
--------------------
Hritik

SQL> SELECT member.name FROM member
  2  LEFT JOIN committees
  3  ON member.name = committees.name
  4  MINUS
  5  SELECT member.name FROM member
  6  INNER JOIN committees
  7  ON member.name = committees.name;

NAME
--------------------
Rakesh

SQL> SELECT A.* ,B.* FROM committees A, committees B;

COMMIT NAME                     AGE COMMIT NAME                     AGE
------ -------------------- ---------- ------ -------------------- ----------
101    Ramesh                       20 101    Ramesh                       20
101    Ramesh                       20 102    Suresh                       20
101    Ramesh                       20 103    Hritik                       30
102    Suresh                       20 101    Ramesh                       20
102    Suresh                       20 102    Suresh                       20
102    Suresh                       20 103    Hritik                       30
103    Hritik                       30 101    Ramesh                       20
103    Hritik                       30 102    Suresh                       20
103    Hritik                       30 103    Hritik                       30

9 rows selected.

SQL> SELECT DISTINCT(A.name) AS name
  2  FROM committees A, committees B
  3  WHERE A.age = B.age and A.name != B.name;

NAME
--------------------
Suresh
Ramesh
```
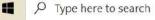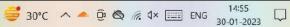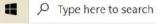
```
SQL> SELECT DISTINCT student.name, student.rollNo FROM student
  2  INNER JOIN teaching ON student.advisor = teaching.empId
  3  INNER JOIN enrollment ON student.rollNo = enrollment.rollNo and teaching.courseId = enrollment.courseId;

NAME                 ROLLN
-------------------- -----
Shabuno              107
Palmer               14869
Marques              15883
Okaf                 10663
Januszewski          15487
Morales              10917
Grosch               10481
Arinb                15457
Duan                 10076
Mediratta            10204
Wicki                16057

NAME                 ROLLN
-------------------- -----
More                 10834
Jr                   11377

13 rows selected.

SQL>
```
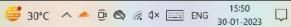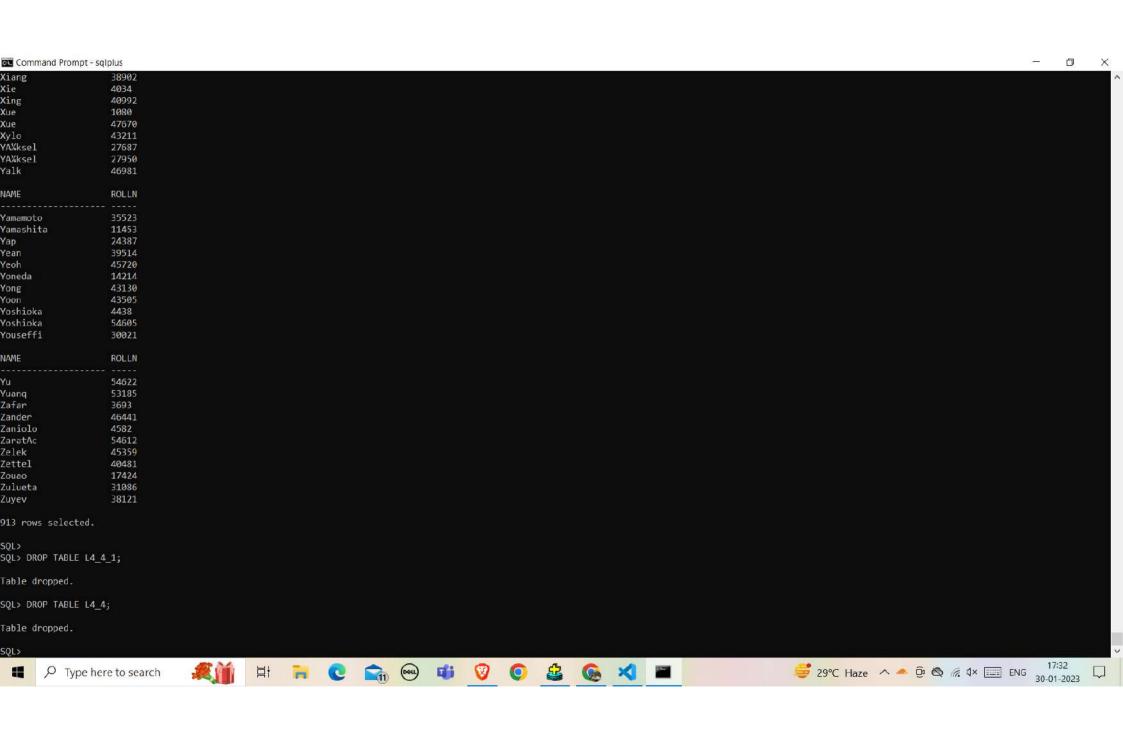
```
Yoshioka                54605
Youseffi                30021

NAME                    ROLLN
-------------------- -----
Yu                      54622
Yuanq                   53185
Zafar                   3693
Zander                  46441
Zaniolo                 4582
ZaratAc                 54612
Zelek                   45359
Zettel                  40481
Zouao                   17424
Zulueta                 31086
Zuyev                   38121

913 rows selected.

SQL>
SQL> DROP TABLE L4_4_1;

Table dropped.

SQL> DROP TABLE L4_4;

Table dropped.

SQL> SELECT * FROM (SELECT preReqCourse FROM prerequisite WHERE courseId in
  2  SELECT preReqCourse FROM prerequisite WHERE courseId='608')
  3  union
  4  SELECT preReqCourse FROM prerequisite WHERE courseId='608' INNER JOIN course ON course.courseId=preReqCourse;
SELECT preReqCourse FROM prerequisite WHERE courseId='608')
*
ERROR at line 2:
ORA-00936: missing expression


SQL> SELECT * FROM (SELECT preReqCourse FROM prerequisite WHERE courseId in
  2  (SELECT preReqCourse FROM prerequisite WHERE courseId='608')
  3  union
  4  SELECT preReqCourse FROM prerequisite WHERE courseId='608') INNER JOIN course ON course.courseId=preReqCourse;

PREREQCO COURSEID CNAME                                  CREDITS DEPTNO
-------- -------- -------------------------------------- ---------- --------------------
421      421      Aquatic Chemistry                            4 15
634      634      Astronomy                                    4 13
864      864      Heat Transfer                                3 12

SQL>
```

```
Xiang              38902
Xie                4034
Xing               40992
Xue                1080
Xue                47670
Xylo               43211
YA¼ksel            27687
YA¼ksel            27950
Yalk               46981

NAME                 ROLLN
-------------------- -----
Yamamoto           35523
Yamashita          11453
Yap                24387
Yean               39514
Yeoh               45720
Yoneda             14214
Yong               43130
Yoon               43505
Yoshioka           4438
Yoshioka           54605
Youseffi           30021

NAME                 ROLLN
-------------------- -----
Yu                 54622
Yuanq              53185
Zafar              3693
Zander             46441
Zaniolo            4582
ZaratAc            54612
Zelek              45359
Zettel             40481
Zouao              17424
Zulueta            31086
Zuyev              38121

913 rows selected.

SQL>
SQL> DROP TABLE L4_4_1;

Table dropped.

SQL> DROP TABLE L4_4;

Table dropped.

SQL>
```

```
SQL> CREATE TABLE L4_4 as
  2  SELECT teaching.* FROM teaching
  3  WHERE courseId = '319';

Table created.

SQL> CREATE TABLE L4_4_1 as
  2  SELECT teaching.* FROM teaching
  3  INNER JOIN L4_4 ON teaching.empId = L4_4.empId;

Table created.

SQL> SELECT DISTINCT student.name, student.rollNo FROM student
  2  LEFT JOIN enrollment ON student.rollNo = enrollment.rollNo
  3  LEFT JOIN teaching ON enrollment.courseId = teaching.courseId
  4  MINUS
  5  SELECT DISTINCT student.name, student.rollNo FROM student
  6  INNER JOIN enrollment ON student.rollNo = enrollment.rollNo
  7  INNER JOIN L4_4_1 ON enrollment.courseId = L4_4_1.courseId;

NAME                 ROLLN
-------------------- -----
A lvarez             24325
A-zel                35881
A.strA¶m             23506
A.strA¶m             5250
Abdellatif           5144
Abeggl               41596
Abraham              45002
Abu-B                20244
Adam                 13511
Adda                 20084
Adeni                52945

NAME                 ROLLN
-------------------- -----
Advani               46655
Agar                 18709
Agar                 44584
Agarwal              2139
Agraz                49205
Ahmad                30188
Ahmadian             45436
Ahso                 29091
Aiken                5414
Akaiw                16993
Al-Hu                49813

NAME                 ROLLN
```

```
13403 319         even     2003 B  13081 694       odd         2002 B
13403 319         even     2003 B  13081 795       even        2004 A
13403 319         even     2003 B  13211 319       even        2003 S
13403 319         even     2003 B  13211 408       even        2003 C
13403 319         even     2003 B  13211 445       even        2001 E
13403 319         even     2003 B  13211 571       even        2004 E
13403 319         even     2003 B  13211 581       even        2005 B
13403 319         even     2003 B  13211 694       odd         2002 E
13403 319         even     2003 B  13211 735       even        2003 A
13403 319         even     2003 B  13211 793       even        2002 E

ROLLN COURSEID SEM         YEAR GR ROLLN COURSEID SEM          YEAR GR
----- -------- ------      ----- -- ----- -------- ------      ---------- --
13403 319         even     2003 B  13217 362       odd         2005 B
13403 319         even     2003 B  13217 527       odd         2004 B
13403 319         even     2003 B  13290 105       odd         2002 A
13403 319         even     2003 B  13290 192       odd         2002 B
13403 319         even     2003 B  13290 319       even        2003 C
13403 319         even     2003 B  13290 401       odd         2003 E
13403 319         even     2003 B  13290 571       even        2004 E
13403 319         even     2003 B  13290 793       even        2002 B
13403 319         even     2003 B  13290 802       even        2003 U
13403 319         even     2003 B  13290 808       odd         2003 C
13403 319         even     2003 B  13290 875       even        2005 A

ROLLN COURSEID SEM         YEAR GR ROLLN COURSEID SEM          YEAR GR
----- -------- ------      ----- -- ----- -------- ------      ---------- --
13403 319         even     2003 B  13352 192       odd         2002 U
13403 319         even     2003 B  13352 694       odd         2002 S
13403 319         even     2003 B  13352 696       even        2002 A
13403 319         even     2003 B  13365 137       even        2002 B
13403 319         even     2003 B  13365 274       odd         2002 A
13403 319         even     2003 B  13365 457       even        2001 D
13403 319         even     2003 B  13365 599       even        2003 C
13403 319         even     2003 B  13365 603       odd         2003 U
13403 319         even     2003 B  13365 663       even        2005 B
13403 319         even     2003 B  13365 696       even        2002 B
13403 319         even     2003 B  13403 192       odd         2002 U

ROLLN COURSEID SEM         YEAR GR ROLLN COURSEID SEM          YEAR GR
----- -------- ------      ----- -- ----- -------- ------      ---------- --
13403 319         even     2003 B  13403 319       even        2003 B

1000000 rows selected.

SQL> SELECT DISTINCT(A.rollNo) FROM enrollment A, enrollment B WHERE A.rollNo=B.rollNo AND A.courseId=B.courseId AND A.year!=B.year;

no rows selected

SQL>
```