```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\VirtualBox> sqlplus dbms/1234

SQL*Plus: Release 11.2.0.2.0 Production on Mon Jan 23 04:03:51 2023

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Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> set linesize 1000;
SQL> set pagesize 1000;
SQL> -- Question 02
SQL> SELECT rollno FROM student WHERE name LIKE '%o%';

ROLLN
-----
33837
33882
34055
34158
34195
34197
34386
34770
34788
34957
```

```
51862
51923
51955
51975
52076
52134
52203
52291
52371
52523
52750
52866
53165
53424
53485
53699
54605
54620
55009
55170

321 rows selected.

SQL>
SQL> -- Question 03
SQL> SELECT sex, COUNT(sex) FROM professor WHERE name LIKE '%a' AND startyear > 2000 GROUP BY sex;

no rows selected
```

```
SQL> -- Question 04
SQL> SELECT name FROM department WHERE deptid >= 10 AND phone LIKE '%55%';

NAME
--------------------
Finance
Geology
Athletics

SQL>
SQL> -- Question 05
SQL> -- select name and startyear of hod having min(startyear in hod table)
SQL> SELECT name, empid, startyear FROM professor WHERE empid IN (SELECT hod FROM department) AND startyear = (SELECT MIN(sta
rtyear) FROM professor WHERE empid IN (SELECT hod FROM department));

NAME                   EMPID  STARTYEAR
--------------------   -----  ----------
McKinnon               63395       1991

SQL>
SQL> -- Question 06
SQL> SELECT year, COUNT(grade) as Grade_A FROM enrollment WHERE grade = 'A' GROUP BY year ORDER BY year;

     YEAR    GRADE_A
---------- ----------
     2001         28
     2002         50
     2003         64
     2004         29
```

```
      2003          64
      2004          29
      2005          46

SQL>
SQL> -- Question 07
SQL> -- Determine the number of courses for which each course serve as a prerequisite.
SQL> SELECT courseid, COUNT(courseid) FROM prerequisite GROUP BY courseid;

COURSEID COUNT(COURSEID)
-------- ----------------
169                     1
209                     1
236                     1
254                     1
292                     1
324                     2
353                     2
443                     1
631                     1
792                     1
795                     1
802                     1
972                     1
158                     1
258                     1
338                     2
359                     2
458                     1
```

```
947                      1
958                      3
239                      1
545                      2
559                      1
586                      1
618                      1
852                      2
875                      1
457                      1
544                      2
629                      1
647                      1
694                      1
760                      1
864                      1

77 rows selected.

SQL>
SQL> -- Question 08
SQL> SELECT sem, COUNT(sem) FROM teaching WHERE classroom LIKE '%R1%' GROUP BY sem;

SEM      COUNT(SEM)
------   -----------
Even             5
Odd              7

SQL>
```