```
-- A
SELECT EXTRACT(YEAR FROM SIGNUP.YEAR) AS YEAR, COUNT(*) AS
NUM OF STUDENTS
FROM SIGNUP
GROUP BY EXTRACT(YEAR FROM SIGNUP.YEAR)
-- B
SELECT EXTRACT(YEAR FROM SIGNUP.YEAR) AS YEAR, DEPARTMENT.FACULTY,
DEPARTMENT.ID, COUNT(*) AS NUM OF STUDENTS
FROM SIGNUP
INNER JOIN STUDENT ON SIGNUP.STUDENT ID = STUDENT.ID
INNER JOIN DEPARTMENT ON STUDENT.DEPARTMENT = DEPARTMENT.ID
GROUP BY EXTRACT (YEAR FROM SIGNUP. YEAR), DEPARTMENT. FACULTY,
DEPARTMENT.ID
-- C
SELECT STUDENT.NAME | | ' ' | | STUDENT.SURNAME AS STUDENT,
STUDENT.ID, COURSE.NAME, AVG(GRADE.VALUE) AS AVG GRADE
FROM STUDENT
INNER JOIN SIGNUP ON STUDENT.ID = SIGNUP.STUDENT ID
INNER JOIN COURSE ON SIGNUP.COURSE ID = COURSE.ID
INNER JOIN GRADE ON SIGNUP.ID = GRADE.SIGNUP ID
WHERE GRADE.ELP IN ('L', 'P')
GROUP BY STUDENT.NAME | | ' ' | | STUDENT.SURNAME, STUDENT.ID,
COURSE.NAME
-- D
SELECT COURSE.NAME, AVG(GRADE.VALUE) AS AVG GRADE
FROM GRADE
INNER JOIN SIGNUP ON GRADE.SIGNUP ID = SIGNUP.ID
INNER JOIN STUDENT ON SIGNUP.STUDENT ID = STUDENT.ID
INNER JOIN COURSE ON SIGNUP.COURSE ID = COURSE.ID
WHERE GRADE.ELP = 'L' AND COURSE.NAME = 'Programming'
GROUP BY COURSE.NAME
```

```
-- E
SELECT DEPARTMENT.ID, DEPARTMENT.FACULTY
FROM DEPARTMENT
INNER JOIN STUDENT ON DEPARTMENT.ID = STUDENT.DEPARTMENT
INNER JOIN SIGNUP ON STUDENT.ID = SIGNUP.STUDENT ID
INNER JOIN GRADE ON SIGNUP.ID = GRADE.SIGNUP ID
WHERE GRADE.ELP = 'E'
GROUP BY DEPARTMENT.ID, DEPARTMENT.FACULTY
HAVING COUNT(*) >= 10 AND MAX(GRADE.VALUE) = 10
-- F
SELECT UPPER(STUDENT.NAME) || ' ' || STUDENT.SURNAME, COURSE.NAME,
COURSE.ID.
   MAX(CASE WHEN GRADE.ELP = 'E' THEN GRADE.VALUE END) AS
EXAM GRADE,
   AVG(CASE WHEN GRADE.ELP = 'L' THEN GRADE.VALUE WHEN GRADE.ELP =
'P' THEN GRADE. VALUE END) AS ACTIVITY GRADE,
    (2 * AVG(CASE WHEN GRADE.ELP = 'E' THEN GRADE.VALUE END)
    + AVG(CASE WHEN GRADE.ELP = 'L' THEN GRADE.VALUE WHEN GRADE.ELP
= 'P' THEN GRADE. VALUE END)) / 3 AS FINAL_GRADE
FROM STUDENT
INNER JOIN SIGNUP ON STUDENT.ID = SIGNUP.STUDENT ID
INNER JOIN GRADE ON SIGNUP.ID = GRADE.SIGNUP ID
INNER JOIN COURSE ON SIGNUP.COURSE ID = COURSE.ID
GROUP BY STUDENT.NAME, STUDENT.SURNAME, COURSE.NAME, COURSE.ID
HAVING (2 * MAX(CASE WHEN GRADE.ELP = 'E' THEN GRADE.VALUE END)
       + AVG(CASE WHEN GRADE.ELP = 'L' THEN GRADE.VALUE WHEN
GRADE.ELP = 'P' THEN GRADE.VALUE END)) / 3 >= 5
```