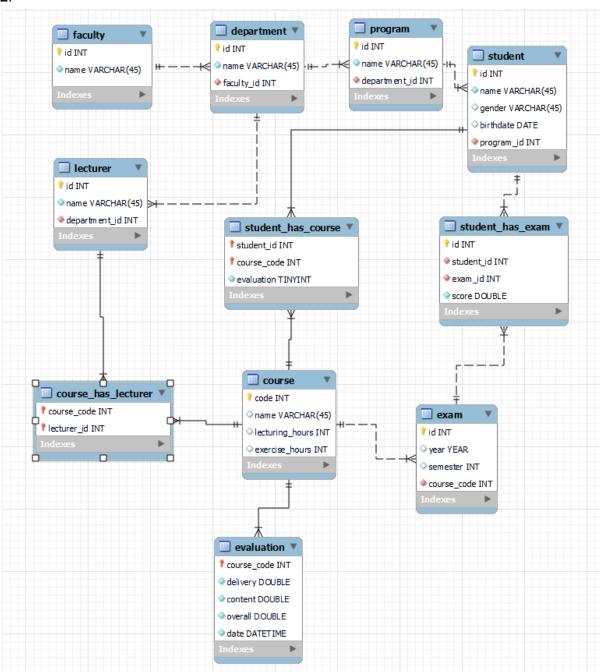
Tarea 1

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2.



```
3.
a.
SELECT
  department.name AS department,
  COUNT(student.id) AS number_students
FROM
  department
    INNER JOIN
  program ON program.department_id = department.id
    INNER JOIN
  student ON student.program_id = program.id
GROUP BY department.id;
b.
SELECT
  exam.year,
  COUNT(student_has_exam.student_id) AS students_taking_exams
FROM
  exam
    INNER JOIN
  student_has_exam ON exam.id = student_has_exam.exam_id
GROUP BY exam.year;
C.
SELECT
  code, name, AVG(exam_tries)
FROM
  (SELECT
    course.code.
      course.name,
      student_id,
      exam_id,
      COUNT(*) AS exam_tries
  FROM
    student_has_exam
  INNER JOIN exam ON exam.id = student_has_exam.exam_id
  INNER JOIN course ON course.code = exam.course_code
  GROUP BY student_has_exam.exam_id , student_has_exam.student_id) AS
student tries
GROUP BY code;
```

```
d.
```

```
SELECT
  course.code,
  course.name,
  AVG(evaluation.overall) AS avg_overall
FROM
  evaluation
    INNER JOIN
  course ON course.code = evaluation.course_code
GROUP BY evaluation.course_code;
e.
SELECT
  lecturer.id,
  lecturer.name,
  AVG(student_has_exam.score) AS avg_score
FROM
  student_has_exam
    INNER JOIN
  exam ON exam.id = student_has_exam.exam_id
    INNER JOIN
  course_has_lecturer ON course_has_lecturer.course_code = exam.course_code
    INNER JOIN
  lecturer ON lecturer.id = course_has_lecturer.lecturer_id
GROUP BY lecturer.id;
```