Vejledende løsninger til left, right og outer join (new_academy)

Opgave 1: Alle studerende og deres tilmeldinger

SELECT students.first_name, students.last_name, courses.course_name, enrollments.grade FROM students LEFT JOIN enrollments ON students.student_id = enrollments.student_id LEFT JOIN courses ON enrollments.course_id = courses.course_id;

Opgave 2: Alle kurser og deres tilmeldinger

SELECT courses.course_name, students.first_name, students.last_name, enrollments.grade

FROM courses

LEFT JOIN enrollments ON courses.course_id = enrollments.course_id

LEFT JOIN students ON enrollments.student_id = students.student_id;

Opgave 3: Studerende uden tilmeldinger

SELECT students.first_name, students.last_name FROM students LEFT JOIN enrollments ON students.student_id = enrollments.student_id WHERE enrollments.enrollment_id IS NULL;

Opgave 4: Kurser uden studerende

SELECT courses.course_name

FROM courses

LEFT JOIN enrollments ON courses.course_id = enrollments.course_id

WHERE enrollments.enrollment_id IS NULL;

Opgave 5: Alle lærere og alle kurser

SELECT teachers.first_name, teachers.last_name, courses.course_name

FROM teachers

FULL OUTER JOIN courses ON teachers.teacher_id = courses.teacher_id;

Opgave 6: Lærere uden kurser

```sql
SELECT teachers.first_name, teachers.last_name

FROM teachers

LEFT JOIN courses ON teachers.teacher_id = courses.teacher_id

WHERE courses.course_id IS NULL;
```

Bonus opgave: Kombination

```sql
SELECT students.first_name, students.last_name, courses.course_name

FROM students

FULL OUTER JOIN enrollments ON students.student_id = enrollments.student_id

FULL OUTER JOIN courses ON enrollments.course_id = courses.course_id;
```