FROM degrees

```
1. Contare quanti iscritti ci sono stati ogni anno:
SELECT year(enrolment date), COUNT(*)
FROM students
GROUP BY year(enrolment_date);
2. Contare gli insegnanti che hanno l'ufficio nello stesso edificio:
SELECT office_address, COUNT(*) AS "Numero insegnanti"
FROM teachers
GROUP BY office address;
3. Calcolare la media dei voti di ogni appello d'esame:
SELECT exam id, AVG(vote)
FROM `exam_student`
GROUP BY exam_id;
4. Contare quanti corsi di laurea ci sono per ogni dipartimento:
SELECT department id, COUNT(*)
FROM `degrees`
GROUP BY department id;
JOIN
1. Selezionare tutti gli studenti iscritti al Corso di Laurea in Economia:
SELECT students.*
FROM students
JOIN degrees ON students.degree id = degrees.id
WHERE degrees.name LIKE "Corso di Laurea in Economia";
2. Selezionare tutti i Corsi di Laurea del Dipartimento di Neuroscienze:
SELECT degrees.*
FROM degrees
JOIN departments ON degrees.department_id = departments.id
WHERE departments.name = "Dipartimento di Neuroscienze";
Selezionare tutti i corsi in cui insegna Fulvio Amato (id=44):
SELECT courses.*
FROM courses
JOIN course_teacher ON courses.id = course_teacher.course_id
JOIN teachers ON course_teacher.teacher_id = teachers.id
WHERE teachers.name = "fulvio" AND teachers.surname = "amato";
4. Selezionare tutti gli studenti con relativo corso di laurea e relativo
dipartimento, in ordine alfabetico per cognome e nome:
SELECT students.*, degrees.name, departments.name
FROM students
JOIN degrees ON students.degree_id = degrees.id
JOIN departments ON degrees.department_id = departments.id
ORDER BY students.surname, students.name;
5. Selezionare tutti i corsi di laurea con i relativi corsi e insegnanti
SELECT degrees.*, courses.*, teachers.*
```

```
JOIN courses ON degrees.id = courses.degree_id
JOIN course_teacher ON courses.id = course_teacher.course_id
JOIN teachers ON course teacher.teacher id = teachers.id
ORDER BY degrees.name;
6. Selezionare tutti i docenti che insegnano nel Dipartimento di Matematica (54)
SELECT teachers.*, departments.name
FROM teachers
JOIN course_teacher ON teachers.id = course_teacher.teacher_id
JOIN courses ON course teacher.course id = courses.id
JOIN degrees ON courses.degree id = degrees.id
JOIN departments ON degrees.department_id = departments.id
WHERE departments.name = "Dipartimento di Matematica";
7. BONUS: Selezionare per ogni studente quanti tentativi d'esame ha sostenuto
per
superare ciascuno dei suoi esami
SELECT students.id, students.surname, students.name,
students.registration_number, courses.id, courses.name AS "exam_name", COUNT(*)
AS "tentativi esami"
FROM `students`
JOIN exam student ON students.id = exam student.student id
JOIN exams ON exam_student.exam_id = exams.id
JOIN courses ON exams.course id = courses.id
```

GROUP BY students.id, courses.id

ORDER BY students.surname, students.name