1. Contare quanti iscritti ci sono stati ogni anno

SELECT YEAR(enrolment\_date) AS "Year" , COUNT(\*) AS "Enrolments"

FROM students
GROUP BY YEAR(enrolment\_date);

2. Contare gli insegnanti che hanno l'ufficio nello stesso edificio

SELECT office\_address, COUNT(\*) AS "teachers"
FROM teachers
GROUP BY office\_address;

3. Calcolare la media dei voti di ogni appello d'esame

SELECT exam\_id, ROUND(AVG(vote), 2) AS "average vote"
FROM exam\_student
GROUP BY exam\_id;

4. Contare quanti corsi di laurea ci sono per ogni dipartimento

SELECT department\_id, count(id) AS "Corsi di laurea"
FROM degrees
GROUP BY department\_id;

JOIN

1. Selezionare tutti gli studenti iscritti al Corso di Laurea in Economia

SELECT students.\*, degrees.name AS "degrees name"
FROM students
JOIN degrees
ON students.degree\_id = degrees.id
WHERE degrees.name = "Corso di Laurea in Economia";

2. Selezionare tutti i Corsi di Laurea del Dipartimento di Neuroscienze

SELECT degrees.\*, departments.name AS "department name"
FROM degrees
JOIN departments
ON degrees.department\_id = departments.id
WHERE departments.name = "Dipartimento di Neuroscienze";

3. Selezionare tutti i corsi in cui insegna Fulvio Amato (id=44)

SELECT courses.\*, teachers.name AS "teacher name",
teachers.surname AS "teacher surname", teachers.id AS "teacher id"
FROM teachers
JOIN course\_teacher
ON course\_teacher.teacher\_id = teachers.id
JOIN courses
ON courses.id = course\_teacher.course\_id
WHERE teachers.name LIKE "Fulvio" AND teachers.surname
LIKE "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 AS "degree name",
departments.name AS "department 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 \*
FROM degrees
 JOIN courses
 ON degrees.id = courses.degree\_id
 JOIN course\_teacher
 ON courses.id = course\_teacher.teacher\_id
 JOIN teachers
 ON teachers.id = course\_teacher.teacher\_id;

6. Selezionare tutti i docenti che insegnano nel Dipartimento di Matematica (54)

ON degrees.department\_id = departments.id
WHERE departments.name = "Dipartimento di Matematica";