-- 1. Selezionare tutti gli studenti (students) iscritti al (degrees) Corso di Laurea in Economia

```
SELECT `students`.`name`, `students`.`surname`, `degrees`.`name` AS "corso_di_laurea" FROM `students` JOIN `degrees`.`id` = `students`.`degree_id` WHERE `degrees`.`name` = "Corso di Laurea in Economia";
```

-- 2. Selezionare tutti i (degrees) Corsi di Laurea Magistrale del (departments) Dipartimento di Neuroscienze

```
SELECT 'degrees'.*
FROM 'degrees'
JOIN 'departments' ON 'departments'.'id' = 'degrees'.'department_id'
WHERE 'departments'.'name' = "Dipartimento di Neuroscienze"
AND 'degrees'.'level' = "magistrale";
```

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

```
SELECT `courses`.`name` AS "course_name", `teachers`.`name` AS "teacher_name", `teachers`.`surname` AS "teacher_surname" FROM `courses` JOIN `course_teacher` ON `courses`.`id` = `course_teacher`.`course_id` JOIN `teachers` ON `course_teacher`.`teacher_id` = `teachers`.`id`
```

WHERE `course\_teacher`.`teacher\_id` = 44;

-- 4. Selezionare tutti gli studenti (students) con i dati relativi al corso di laurea (degrees) a cui sono iscritti e il relativo (departments) dipartimento, in ordine alfabetico per cognome e nome

```
SELECT `students`.`name` AS "student_name", `students`.`surname` AS "student_surname", `degrees`.`name` AS "degree_name", `departments`.`name` AS "department_name" FROM `degrees` JOIN `students` ON `degrees`.`id` = `students`.`degree_id` JOIN `departments` ON `degrees`.`department_id` = `departments`.`id`; ORDER BY `students`.`surname`, `students`.`name`
```

-- 5. Selezionare tutti i corsi di laurea(courses) con i relativi corsi(degrees) e insegnanti (teachers)

```
SELECT `courses`.`name` AS "courses_name", `degrees`.`name` AS "degree_name", `teachers`.`name` AS "teacher_name", `teachers`.`surname` AS "teachers_surname" FROM `degrees` JOIN `courses` ON `degrees`.`id` = `courses`.`degree_id` JOIN `course_teacher` ON `courses`.`id` = `course_teacher`.`course_id` JOIN `teachers` ON `teachers`.`id` = `course_teacher.`teacher_id`;
```

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

## **SELECT**

`teachers`.`id` AS "teacher\_id", `teachers`.`name` AS "teacher\_name", `teachers`.`surname` AS "teacher\_surname", `departments`.`name` AS "department\_name" FROM `degrees` 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` JOIN `departments` ON `departments`.`id` = `degrees`.`department id`

WHERE 'departments'. 'name' = "Dipartimento di Matematica";

## EX - Query con GROUP BY

-- 1. Contare quanti iscritti ci sono stati ogni anno

SELECT COUNT(\*) AS "numero\_iscritti", YEAR('enrolment\_date') AS "year" FROM 'students' GROUP BY YEAR('enrolment\_date');

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

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

- -- 3. Calcolare la media dei voti di ogni appello d'esame SELECT `exam\_id`, ROUND(AVG(`vote`)) AS "avarage\_vote" FROM `exam\_student` GROUP BY `exam\_id`;
- -- 4. Contare quanti corsi di laurea ci sono per ogni dipartimento

SELECT COUNT(\*) AS "degree\_numbers" , `department\_id` FROM `degrees` GROUP BY `department\_id`;