**EX - Query con JOIN**

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

SELECT `degrees`.`name` AS `corso\_di\_laurea`, `students`.\*

FROM `degrees`

JOIN `students`

ON `degrees`.`id`=`students`.`degree\_id`

WHERE `degrees`.`name`="Corso di Laurea in Economia";

1. **Selezionare tutti i Corsi di Laurea Magistrale del Dipartimento di Neuroscienze**

SELECT `departments`.`name` as `nome\_dipartimento`, `degrees`.`name` AS `nome-coeso`, `degrees`.`level`

FROM `degrees`

JOIN `departments`

ON `degrees`.`department\_id`=`departments`.`id`

WHERE `departments`.`name`="Dipartimento di Neuroscienze" AND `degrees`.`level`= "magistrale";

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

SELECT `teachers`.`name` AS `nome\_docente`, `teachers`.`surname` AS `cognome\_docente`, `courses`.`name`AS `nome\_corso`

FROM `teachers`

JOIN `course\_teacher`

ON `teachers`.`id`=`course\_teacher`.`teacher\_id`

JOIN `courses`

ON `course\_teacher`.`course\_id`=`courses`.`id`

WHERE `teachers`.`id`=44;

1. **Selezionare tutti gli studenti con i dati relativi al corso di laurea a cui sono iscritti e il relativo dipartimento, in ordine alfabetico per cognome e nome**

SELECT `students`.`surname` AS `cognome\_studente`, `students`.`name` AS `nome\_studente`, `degrees`.\*, `departments`.`name` AS `nome\_dipartimento`

FROM `students`

JOIN `degrees`

ON `students`.`degree\_id`=`degrees`.`id`

JOIN `departments`

ON `degrees`.`department\_id`=`departments`.`id`

ORDER BY `students`.`surname`;

1. **Selezionare tutti i corsi di laurea con i relativi corsi e insegnanti**

SELECT `teachers`.`name`AS `nome\_docente`, `teachers`.`surname`AS `cognome\_docente`, `degrees`.`name`AS `corso\_di\_laurea`, `degrees`.`level`, `courses`.`name`AS `nome\_corso`

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`

ORDER BY `degrees`.`name`;

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

SELECT DISTINCT `teachers`.`surname`AS `cognome docente`, `teachers`.`name`AS `nome\_docente`, `departments`.`name` AS `nome-\_dipartimento`

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"

ORDER BY `teachers`.`surname**`;**

1. **BONUS: Selezionare per ogni studente quanti tentativi d’esame ha sostenuto per superare ciascuno dei suoi esami**

SELECT CONCAT(`students`.`surname`, " ", `students`.`name`) AS `fullname\_studente`, `exam\_student`.`vote` as `voto\_esame`, `exams`.`id` AS `id\_esame`

FROM `students`

JOIN `exam\_student`

ON `students`.`id`=`exam\_student`.`exam\_id`

JOIN `exams`

ON `exam\_student`.`exam\_id`=`exams`.`id`

ORDER BY `fullname\_studente` ASC;