

JOIN

1) studenti iscritto al corso di economia

```
SELECT
    *
FROM
    `students`
INNER JOIN `degrees` ON `students`.`degree_id` = `degrees`.`id`
WHERE
    `degrees`.`name` = 'laurea-economia';
```

2) corsi magistrale dipartimento Neuroscienze :

```
SELECT
    *
FROM
    `degrees`
INNER JOIN `departments` ON `degrees`.`department_id` = `departments`.`id`
WHERE
    `degrees`.`level` = 'magistrale';
```

3) i corsi in cui insegna Flavio Amato :

```
SELECT
    *
FROM
    `courses`
INNER JOIN `course_teacher` ON `courses`.`id` = `course_teacher`.`course_id`
INNER JOIN `teachers` ON `course_teacher`.`teacher_id` = `teachers`.`id`
WHERE
    `teachers`.`id` = 44;
```

4) 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
    *
FROM
    `students`
INNER JOIN `degrees` ON `students`.`degree_id` = `degrees`.`id`
INNER JOIN `departments` ON `degrees`.`department_id` = `departments`.`id`
ORDER BY
    `students`.`name`;
```

5) corsi di laurea con i relativi corsi e insegnanti :

```
SELECT
    *
FROM
```

```

    `degrees`
INNER JOIN `courses` ON `degrees`.`id` = `courses`.`degree_id`
INNER JOIN `course_teacher` ON `courses`.`id` = `course_teacher`.`course_id`
INNER JOIN `teachers` ON `course_teacher`.`teacher_id` = `teachers`.`id`;

```

6) docenti che insegnano nel Dipartimento di Matematica :

```

SELECT DISTINCT
    `teachers`.*
FROM
    `teachers`
INNER JOIN `course_teacher` ON `teachers`.`id` = `course_teacher`.`teacher_id`
INNER JOIN `courses` ON `course_teacher`.`course_id` = `courses`.`id`
INNER JOIN `degrees` ON `courses`.`degree_id` = `degrees`.`id`
INNER JOIN `departments` ON `degrees`.`department_id` = `departments`.`id`
WHERE
    `departments`.`name` = 'Dipartimento di Matematica';

```

7) BONUS:

```

SELECT
    `students`.*,
    COUNT(`exam_student`.`vote` + 1) AS 'n_intents'
FROM
    `students`
INNER JOIN `exam_student` ON `students`.`id` = `exam_student`.`student_id`
INNER JOIN `exams` ON `exam_student`.`exam_id` = `exams`.`id`
WHERE
    `exam_student`.`vote` < 18
GROUP BY
    `students`.`id`;

```