

1-Selezionare tutti gli studenti iscritti al Corso di Laurea in Economia (68)

```
SELECT `students`.`name`, `students`.`surname`, `degrees`.`name` AS  
`nome_laurea`  
FROM `students`  
INNER 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
(148)

```
SELECT `courses`.`name` AS `nome_corso`, `departments`.`name`  
FROM `courses`  
INNER JOIN `degrees` ON `courses`.`degree_id` = `degrees`.`id`  
INNER 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 `nome_insegnante`,  
`teachers`.`surname` AS `cognome_insegnante`  
FROM `teachers`  
INNER JOIN `course_teacher` ON `teachers`.`id` =  
`course_teacher`.`teacher_id`  
INNER JOIN `courses` ON `course_teacher`.`course_id` = `courses`.`id`  
WHERE `teachers`.`id` = 44;
```

4-Selezionare tutti gli studenti iscritti al Corso di Laurea in Economia (68)
iscritti e il relativo dipartimento, in ordine alfabetico per cognome e nome

```
SELECT `students`.`surname`, `students`.`name`, `degrees`.`name` AS  
`corso`, `departments`.`name` AS `dipartimento`  
FROM `departments`  
INNER JOIN `degrees` ON `departments`.`id` =  
`degrees`.`department_id`  
INNER JOIN `students` ON `degrees`.`id` = `students`.`degree_id`  
ORDER BY `students`.`surname` ASC;
```

5-Selezionare tutti i corsi di laurea con i relativi corsi e insegnanti

```

SELECT `degrees`.`name` AS `corso_di_laurea`, `courses`.`name` AS
`corso`, `teachers`.`name`, `teachers`.`surname`
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-Selezionare tutti i docenti che insegnano nel Dipartimento di Matematica (54)

```

SELECT DISTINCT `teachers`.*, `departments`.`name` As `dipartimento`
FROM `departments`
INNER JOIN `degrees` ON `departments`.`id` =
`degrees`.`department_id`
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`
WHERE `departments`.`name` = 'Dipartimento di Matematica' ORDER BY
`teachers`.`id` ASC;

```

BONUS: Selezionare per ogni studente quanti tentativi d'esame ha sostenuto per superare ciascuno dei suoi esami

```

SELECT `student_id` AS `id_studente`, `students`.`name`,
`students`.`surname`, COUNT(`courses`.`name`) AS `n_tentativi`,
`courses`.`name` AS `nome_corso`, MAX(`exam_student`.`vote`) AS
`voto_max`
FROM `courses`
INNER JOIN `exams` ON `courses`.`id` = `exams`.`course_id`
INNER JOIN `exam_student` ON `exams`.`id` =
`exam_student`.`exam_id`
INNER JOIN `students` ON `exam_student`.`student_id` =
`students`.`id`
GROUP BY `courses`.`id`, `courses`.`name`, `student_id`
HAVING `voto_max` >= 18
ORDER BY `id_studente` ASC

```

