

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

```
SELECT `students`.*, `degrees`.`name`  
FROM `students`  
INNER JOIN `degrees` ON `degrees`.`id` = `students`.`degree_id`  
WHERE `degrees`.`name` = 'Corso di Laurea in Economia '
```

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

```
SELECT `degrees`.*, `departments`.`name`  
FROM `degrees`  
INNER JOIN `departments` ON `departments`.`id` = `degrees`.`department_id`  
WHERE `departments`.`name` = 'Dipartimento di Neuroscienze '
```

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

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

4. 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 `surname_student`, `students`.`name` AS  
`student`, `degrees`.*, `departments`.`name` AS `department`  
FROM `students`  
INNER JOIN `degrees` on `degrees`.`id` = `students`.`degree_id`  
INNER JOIN `departments` on `departments`.`id` = `degrees`.`department_id`  
ORDER BY `surname_student` DESC
```

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

```
SELECT `degrees`.`name` AS `degree`, `courses`.`name` AS `course`, `c  
ourse_teacher`.`teacher_id`, `teachers`.`name` AS `name`, `teachers`.`  
surname` AS `surname`  
FROM `courses`  
INNER JOIN `degrees` ON `degrees`.`id` = `courses`.`degree_id`  
INNER JOIN `course_teacher` ON `course_teacher`.`teacher_id` = `course  
s`.`id`  
INNER JOIN `teachers` ON `teachers`.`id` = `course_teacher`.`teacher_id`  
,
```

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

```
SELECT DISTINCT `teachers`.`name` AS `teacher_name`,  
`teachers`.`surname` AS `teacher_surname`, `departments`.`name` AS `depa  
rtment`  
FROM `course_teacher`  
INNER JOIN `teachers` ON `teachers`.`id` = `course_teacher`.`teacher_id`  
  
INNER JOIN `courses` ON `courses`.`id` = `course_teacher`.`course_id`  
INNER JOIN `degrees` ON `degrees`.`id` = `courses`.`degree_id`  
INNER JOIN `departments` ON `departments`.`id` = `degrees`.`department_i  
d` WHERE `departments`.`name` = 'Dipartimento di Matematica '
```

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

```
SELECT `student_id`, COUNT(*), `students`.`name`, `students`.`surname`  
FROM `exam_student` INNER JOIN `students` ON `students`.`id` =  
`exam_student`.`student_id`  
WHERE `vote` < 18  
GROUP BY `student_id`
```