

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

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

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

```
SELECT `degrees`.`name` AS `corso_di_laurea`,  
`degrees`.`website` AS `sito_web`  
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 in cui insegna Fulvio Amato (id=44)

```
SELECT `courses`.`name` AS `corso`, `courses`.`description`  
AS `descrizione_corso`  
FROM `teachers`  
JOIN `course_teacher` ON  
`course_teacher`.`teacher_id`=`teachers`.`id`  
JOIN `courses` ON  
`courses`.`id`=`course_teacher`.`course_id`  
WHERE `teachers`.`name`='Fulvio' AND
```

```
`teachers`.`surname`='Amato'  
;
```

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`.`id`, `students`.`name` AS `nome`,  
`students`.`surname` AS `cognome`,  
`students`.`registration_number` AS  
`n_matricola`, `degrees`.`name` AS `corso_di_laurea`,  
`departments`.`name` AS `dipartimento`  
FROM `students`  
JOIN `degrees` ON `degrees`.`id`=`students`.`degree_id`  
JOIN `departments` ON  
`departments`.`id`=`degrees`.`department_id`  
ORDER BY `students`.`surname`, `students`.`name`  
;
```

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

```
SELECT `degrees`.`name`, `courses`.`name` AS  
`nome_corso`, `teachers`.`name` AS `nome_docente`,  
`teachers`.`surname` AS `cognome_docente`  
FROM `teachers`  
JOIN `course_teacher` ON  
`course_teacher`.`teacher_id`=`teachers`.`id`  
JOIN `courses` ON  
`courses`.`id`=`course_teacher`.`course_id`  
JOIN `degrees` ON `degrees`.`id`=`courses`.`id`  
ORDER BY `degrees`.`name`, `courses`.`name`,  
`teachers`.`surname`, `teachers`.`name`
```

;

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

```
SELECT DISTINCT `teachers`.`name` AS `nome_docente`,
`teachers`.`surname` AS `cognome_docente`,
`teachers`.`office_address` AS `ufficio_docente`
FROM `departments`
JOIN `degrees` ON
`degrees`.`department_id`=`departments`.`id`
JOIN `courses` ON `courses`.`degree_id`=`degrees`.`id`
JOIN `course_teacher` ON
`course_teacher`.`course_id`=`courses`.`id`
JOIN `teachers` ON
`teachers`.`id`=`course_teacher`.`teacher_id`
WHERE `departments`.`name` = 'Dipartimento di
Matematica'
ORDER BY `cognome_docente`, `nome_docente`
;
```

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

```
SELECT `students`.`id` AS `id_studente`, `students`.`name`
AS `nome_studente`, `students`.`surname` AS
`cognome_studente`, `courses`.`name` AS `materia`,
COUNT(`exam_student`.`student_id`) AS
`tentativi_per_sufficienza`, `courses`.`id` AS `id_materia`
FROM `students`
JOIN `exam_student` ON
`exam_student`.`student_id`=`students`.`id`
```

```
JOIN `exams` ON `exams`.`id`=`exam_student`.`exam_id`  
JOIN `courses` ON `courses`.`id`=`exams`.`course_id`  
GROUP BY `exam_student`.`student_id`, `courses`.`id`  
ORDER BY `id_materia`, `id_studente`  
;
```
