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

```
SELECT `students`.`name` AS `nome_studente`, `students`.`surname` AS `cognome_studente`
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 Magistrale del Dipartimento di Neuroscienze

```
SELECT *
FROM `degrees`
INNER JOIN `departments` ON `departments`.`id` = `degrees`.`department_id`
WHERE `degrees`.`level` = "Magistrale"
AND `departments`.`name` = "Dipartimento di Neuroscienze";
```

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

```
SELECT `courses`.`id`, `courses`.`name` AS `nome_corso`, `teachers`.`name` AS `nome_insegnante`, `teachers`.`surname` AS `cognome_insegnante`
FROM `courses`
INNER JOIN `course_teacher` ON `courses`.`id` = `course_teacher`.`course_id`
INNER JOIN `teachers` ON `teachers`.`id` = `course_teacher`.`teacher_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 DISTINCT `students`.`name` AS `nome`, `students`.`surname` AS `cognome`, `degrees`.`name` AS `corso_laurea`, `departments`.`name` AS `dipartimento`
FROM `students`
INNER JOIN `degrees` ON `degrees`.`id` = `students`.`degree_id`
```

```
INNER 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` AS `corso_di_laurea`, `courses`.`name` AS `corsi`,
`teachers`.`name` AS `nome_insegnante`, `teachers`.`surname` AS
`cognome_insegnante`
FROM `degrees`
INNER JOIN `courses` ON `courses`.`degree_id` = `degrees`.`id`
INNER JOIN `course_teacher` ON `course_teacher`.`course_id` = `courses`.`id`
INNER JOIN `teachers` ON `teachers`.`id` = `course_teacher`.`teacher_id`
ORDER BY `corso_di_laurea`;
```

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

```
SELECT DISTINCT `teachers`.`name` AS `nome_insegnante`, `teachers`.`surname` AS
`cognome_insegnante`, `departments`.`name` AS `dipartimento`
FROM `teachers`
INNER JOIN `course_teacher` ON `course_teacher`.`teacher_id` = `teachers`.`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_id`
WHERE `departments`.`name` = "Dipartimento di Matematica"
```

7. BONUS: Selezionare per ogni studente il numero di tentativi sostenuti per ogni esame, stampando anche il voto massimo. Successivamente, filtrare i tentativi con voto minimo 18.

```
SELECT `students`.`name`, `students`.`surname`, `exams`.`id` AS `esame`,
COUNT(`exam_student`.`exam_id`) AS `tentativi`, MAX(`exam_student`.`vote`) AS
`voto_massimo`
FROM `students`
INNER JOIN `exam_student` ON `exam_student`.`student_id` = `students`.`id`
```

INNER JOIN `exams` ON `exams`.`id` = `exam_student`.`exam_id`

GROUP BY `students`.`id`, `exams`.`id`;

SELECT `students`.`name`, `students`.`surname`, `exams`.`id` AS `esame`, COUNT(`exam_student`.`exam_id`) AS `tentativi`, MIN(`exam_student`.`vote`) AS `voto_minimo`

FROM `students`

INNER JOIN `exam_student` ON `exam_student`.`student_id` = `students`.`id`

INNER JOIN `exams` ON `exams`.`id` = `exam_student`.`exam_id`

GROUP BY `students`.`id`, `exams`.`id`

HAVING `voto_minimo` = 18