

SOLUZION DB-UNIVERSITY GROUP AND JOIN

1-

```
SELECT DISTINCT COUNT(*) AS `numero_studenti`,  
YEAR(`enrolment_date`)  
FROM `students`  
GROUP BY YEAR(`enrolment_date`)  
;
```

2-

```
SELECT COUNT(*) AS `numero_insegnanti`,  
`teachers`.`office_address`  
FROM `teachers`  
GROUP BY `teachers`.`office_address`  
;
```

3-

```
SELECT AVG(`exam_student`.`vote`) AS `media_voto`,  
`exam_student`.`exam_id`  
FROM `exam_student`  
GROUP BY `exam_student`.`exam_id`  
;
```

4-

```
SELECT COUNT(*) AS `numero_corsi`, `degrees`.`department_id`  
FROM `degrees`  
GROUP BY `degrees`.`department_id`  
;
```

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1-

```
SELECT *
```

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

2-

```
SELECT *  
FROM `degrees`  
JOIN `departments` ON `degrees`.`department_id` =  
`departments`.`id`  
WHERE `departments`.`name` LIKE '%Neuroscienze%'  
AND `degrees`.`level` LIKE '%Magistrale%'  
;
```

3-

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

4-

```
SELECT `students`.`name` AS `nome_studente`,  
`students`.`surname` AS `cognome_studente`, `degrees`.`name`  
AS `corso_laurea`, `departments`.`name` AS `nome_dipartimento`  
FROM `students`  
JOIN `degrees` ON `students`.`degree_id` = `degrees`.`id`  
JOIN `departments` ON `departments`.`id` = `degrees`.`id`  
ORDER BY `students`.`surname`, `students`.`name`  
;
```

5-

```
SELECT `degrees`.`name` AS `nome_laurea`, `courses`.`name` AS  
`nome_corso`, `teachers`.`name` AS `nome_insegnante`  
FROM `degrees`  
JOIN `courses` ON `courses`.`degree_id` = `degrees`.`id`
```

```
JOIN `course_teacher` ON `course_teacher`.`course_id` =  
`courses`.`id`  
JOIN `teachers` ON `course_teacher`.`teacher_id` = `teachers`.`id`  
ORDER BY `nome_laurea`  
;
```

6-

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