**QUERY GROUP-BY**

1. CONTARE QUANTI ISCRITTI CI SONO STATI OGNI ANNO

SELECT COUNT(\*) AS `N`, YEAR(`students`.`enrolment\_date`) AS `data\_immatricolazione`

FROM `students`

GROUP BY `data\_immatricolazione`;

2. CONTARE GLI INSEGNANTI CHE HANNO L’UFFICIO NELLO STESSO INDIRIZZO

SELECT COUNT(\*) AS `N`, `teachers`.`office\_address` AS `office\_address`

FROM `teachers`

GROUP BY `office\_address`;

3. CALCOLA LA MEDIA DEI VOTI DI OGNI APPELLO

SELECT AVG(`exam\_student`.`vote`) AS `media\_voto`, `exams`.id AS `appello`, `exam\_student`.`exam\_id` AS `esame\_studente`

FROM `exam\_student`

INNER JOIN `exams`

ON `exam\_student`.`exam\_id` = `exams`.`id`

GROUP BY `appello`, `esame\_studente`;

4. CONTARE QUANTI CORSI DI LAUREA CI SONO PER DIPARTIMENTO

SELECT COUNT(\*) AS `corsi\_di\_laurea`, `departments`.`id` AS `dipartimento n`

FROM `departments`

INNER JOIN `degrees`

ON `degrees`.`department\_id` = `departments`.`id`

GROUP BY `dipartimento n`;

**QUERY JOIN**

1. SELEZIONARE TUTTI GLI STUDENTI ISCRITTI AL CORSO DI LAUREA IN ECONOMIA

SELECT \*

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

SELECT \*

FROM `departments`

INNER JOIN `degrees`

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 \*

FROM `courses`

INNER JOIN `course\_teacher` ON `courses`.`id` = `course\_teacher`.`course\_id`

INNER JOIN `teachers` ON `course\_teacher`.`teacher\_id` = `teachers`.`id`

WHERE `teachers`.`id` = 44

4. SELEZIONARE TUTTI GLI STUDENTI CON I DATI RELATIVI AL CORSO DI LAUREA A CUI SONO ISCRITTI E IL REALTIVO DIPARTIMENTO IN ORDINE ALFABETICO PER COGNOME, NOME

SELECT `students`.`surname` AS `Surname`, `students`.`name` AS `Name`, `degrees`.`name` AS `Degree`, `departments`.`name` AS `Department`

FROM `students`

INNER JOIN `degrees` ON `students`.`degree\_id` = `degrees`.`id`

INNER JOIN `departments` ON `degrees`.`department\_id` = `departments`.`id`

ORDER BY `students`.`surname`, `students`.`name` ASC

5. SELEZIONARE TUTTI I CORSI DI LAUREA CON I REALTIVI CORSI E INSEGNANTI

SELECT `degrees`.`name` AS `degree`, `courses`.`name` AS `course\_name`, `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

SELECT \*

FROM `teachers`

INNER JOIN `course\_teacher` ON `teachers`.`id` = `course\_teacher`.`teacher\_id`

INNER JOIN `courses` ON `course\_teacher`.`course\_id` = `courses`.`id`

INNER JOIN `degrees` ON `courses`.`degree\_id` = `degrees`.`id`

INNER JOIN `departments` ON `degrees`.`department\_id` = `departments`.`id`

WHERE `departments`.`name` = 'Dipartimento di Matematica'