DB\_UNIVERSITY EXERCISE part 2

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

SELECT `students`.\*, `degrees`.`name` AS `degrees\_course`

FROM `students`

INNER JOIN `degrees`

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

WHERE `degrees`.`name`= 'Corso di Laurea in Economia’;

1. Selezionare tutti i Corsi di Laure Magistrale del Dipartimento di Neuroscienze

SELECT `departments`.`name` AS `departments\_name`, `degrees`.`name` AS `degrees\_name`

FROM `degrees`

INNER JOIN `departments`

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

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

AND `degrees`.`name` LIKE 'Corso di laurea magistrale %’;

1. Selezionare tutti i Corsi dove insegna Fulvio Amato (id=44)

SELECT `teachers`.`id` AS `teachers\_id`, `teachers`.`name` AS `teachers\_name`, `teachers`.`surname` AS `teachers\_surname`, `courses`.`name` AS `course\_name`

FROM `teachers`

INNER JOIN `course\_teacher`

ON `course\_teacher`.`course\_id` = `teachers`.`id`

INNER JOIN `courses`

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

WHERE `teachers`.`name` = 'Fulvio'

AND `teachers`.`surname` = ‘Amato’;

1. 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`, `students`.`name` AS `name`, `degrees`.\*, `departments`.`name` AS `departments\_name`

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`;

1. Selezionare tutti i corsi di laurea con i relativi corsi ed insegnanti

SELECT `degrees`.`name` AS `degrees\_course`, `courses`.`name` AS `courses\_name`, `teachers`.`name` AS `teachers\_name`, `teachers`.`surname` AS `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 `teachers`.`id`= `course\_teacher`.`teacher\_id`;

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

SELECT `teachers`.`name` AS `teachers\_name`, `teachers`.`surname` AS `teachers\_surname`,`departments`.`name` AS `departments\_name`

FROM `teachers`

INNER JOIN `course\_teacher`

ON `course\_teacher`.`teacher\_id` = `teachers`.`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'

BONUS 1. 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.