**SQL queries of 16/3/25**

SELECT \* FROM `classroom`;

SELECT \* FROM `department`;

SELECT \* FROM `instructor`;

SELECT \* FROM `section`;

SELECT \* FROM `student`;

SELECT \* FROM `takes`;

-- Print the names of all courses where one student got an A

SELECT title FROM course WHERE course\_id IN (SELECT course\_id FROM takes WHERE grade = 'A');

-- Print the names of all instructors that earn more than instructors of the finance department

SELECT name, salary FROM instructor WHERE salary > (SELECT max(salary) FROM instructor WHERE dept\_name = 'Finance');

-- Find course\_id of courses taking place in Packard building in both Fall 2017 and Spring 2018

SELECT course\_id FROM section WHERE semester = 'Fall' AND year = '2017'

INTERSECT

SELECT course\_id FROM section WHERE semester = 'Spring' AND year = '2018';

-- Find the names of those departments whose instructors have an average salary greater than 42000

SELECT dept\_name FROM instructor GROUP BY dept\_name HAVING avg(salary) > 42000;

-- Find course\_id of courses taking place in Packard building in both Fall 2017 and Spring 2018 using a WITH clause

WITH course\_in\_spring\_and\_fall AS (

SELECT course\_id, building FROM section WHERE semester = 'Fall' AND year = '2017'

INTERSECT

SELECT course\_id, building FROM section WHERE semester = 'Spring' AND year = '2018'

)

SELECT course\_id FROM course\_in\_spring\_and\_fall WHERE building = 'Packard';

-- Find names of students who have got at least one A

SELECT name FROM student AS s WHERE EXISTS (

SELECT \* FROM takes AS t WHERE t.ID = s.ID AND grade = 'A'

);

-- Find names of students who have got no F

SELECT name FROM student WHERE NOT EXISTS (

SELECT \* FROM takes WHERE takes.ID = student.ID AND grade = 'F'

);