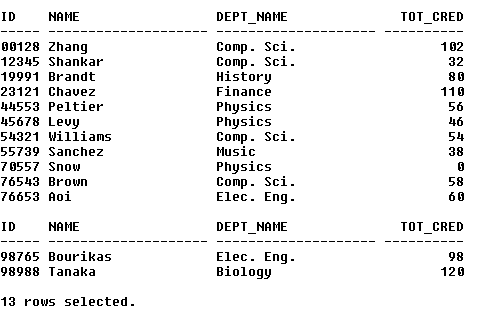
**WEEK 3:**

Write SQL Select Statements for the following simple queries that retrieve data from a single table:

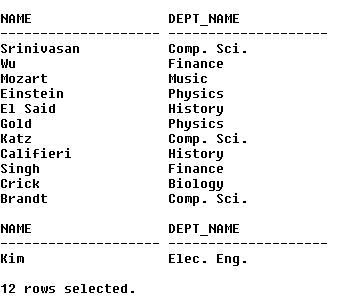
1. Find the details of all students.

select \* from student;



2. Find the department names of instructors.

select name, dept\_name from instructor;



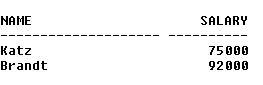
3. Find the names of all the instructors from Biology department.

select name from instructor where dept\_name like 'Biology';



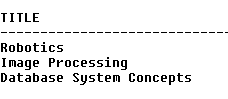
4. Find the names of all instructors in the Computer Science department who have salaries greater than $70000.

select name, salary from instructor where dept\_name like 'Comp. Sci.' and salary > 70000;

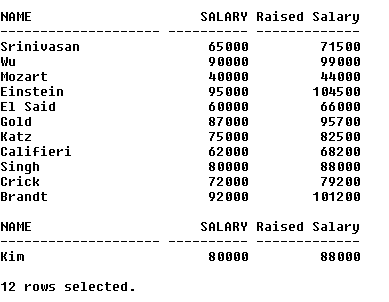


5. Find the names of courses in Computer science department which have 3credits

select title from course where dept\_name like 'Comp. Sci.' and credits like 3;

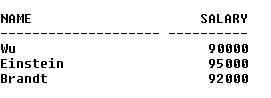


6. Find the names of the instructors, their present salaries and the resulting salaries if they were given a 10% raise.

select name, salary, (salary\*1.1) as "Raised Salary" from instructor;

7. Find the names of instructors with salary amounts between $90000 and $100000.

select name, salary from instructor where salary between 90000 and 100000;



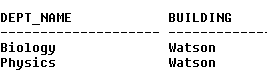
8. Find all instructors whose salary is unknown.

select \* from instructor where salary is null;



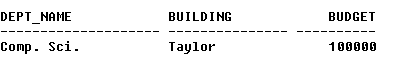
9. Find the names of all departments whose building name includes the substring 'Watson'.

select dept\_name, building from department where building like '%Watson%';



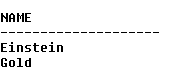
10. Find departments whose names contain the string "sci" as a substring, regardless of the case.

select \* from department where lower(dept\_name) like '%sci%';



11. List the names of all instructors in the Physics department in alphabetic order.

select name from instructor where dept\_name like 'Physics' order by name asc;



12. List the entire instructor relation in descending order of salary. If several instructors have the same salary, order them in ascending order by name.

select \* from instructor order by salary desc, name asc;

