1 INNER JOIN

select * from employees inner join departments

on

employees.department_id=departments.department_id

2.OUTER JOIN _LEFT

select empid,employee_name,department_name from employees left outer join departments

on

employees.department_id=departments.department_id

3.OUTER JOIN_RIGHT

select * from employees Right outer join departments

on

employees.department_id=departments.department_id

4.second max salary

SELECT MAX(salary) FROM Employees WHERE Salary NOT IN (SELECT Max(Salary) FROM Employees);

Or

SELECT MAX(Salary) From Employees WHERE Salary < (SELECT Max(Salary) FROM Employees);

5. employees holding max sal in each dept

SELECT first_name, last_name, salary

   FROM employees

   WHERE (department_id,salary) in

   (SELECT department_id, MAX(salary) FROM employees GROUP BY department_id);

6. sal>sal of empid=163

SELECT first_name, last_name

FROM employees

WHERE salary >

(SELECT salary

FROM employees

WHERE employee_id=163

);

7.write a SQL query to find out which employees have the same designation as the employee whose ID is 169. Return first name, last name, department ID and job ID.

SELECT first_name, last_name, salary, department_id, job_id
FROM employees
WHERE job_id =
(SELECT job_id
FROM employees
WHERE employee_id=169
);

8. write a SQL query to find those employees whose salary matches the lowest salary of any of the departments. Return first name, last name and department ID

SELECT first_name, last_name, salary, department_id
FROM employees
WHERE salary IN
(SELECT MIN(salary)
FROM employees
GROUP BY department_id
);

9.Nth highest salary: Replace N by 5 for 5th highest salary:

SELECT first_name,salary from Employees e1

where N-1 =

(SELECT COUNT(DISTINCT salary)from Employees e2 where e2.salary > e1.salary)

10 Using clause:

Find the working location of the employees

SELECT e.EMPLOYEE_ID, e.LAST_NAME, d.LOCATION_ID

FROM Employees e JOIN Departments d

USING(DEPARTMENT_ID);

11. find the location_id, street_address, postal_code and their respective country name

SELECT l.location_id, l.street_address, l.postal_code, c.country_name

FROM locations l JOIN countries c

USING(country_id);