SOLUTIONS

1- Write a query to get the minimum salary from employees table.

```
SELECT MAX(salary), MIN(salary)
FROM employees;
```

2- Write a query to get the maximum salary of an employee working as a Programmer.

```
SELECT MAX(salary)
FROM employees
WHERE job_id = 'IT_PROG';
```

3- Write a query to get the average salary and number of employees working in each department

```
SELECT department_id, AVG(salary) AS avg_salary, count(*) As
num_employees
FROM employees
GROUP BY department_id
```

4- Write a query to get the highest, lowest, sum, and average salary of all employees.

```
SELECT ROUND(MAX(salary),0) 'highest_salary',
ROUND(MIN(salary),0) 'lowest_salary',
ROUND(SUM(salary),0) 'total_amt_salaries',
ROUND(AVG(salary),0) 'avg_salaries'
FROM employees;
```

5- Write a query to get the number of employees with the same job

```sql
SELECT job_id, COUNT(*) AS num_employees
FROM employees
GROUP BY job_id;
```

6- Write a query to find the manager ID and the salary of the lowest-paid employee for that manager

```sql
SELECT manager_id, MIN(salary) As managers_lowest_paid_employee
FROM employees
WHERE manager_id IS NOT NULL
GROUP BY manager_id
ORDER BY MIN(salary) DESC;
```

7- Write a query to find the names (first_name, last_name) and salaries of the employees who have a higher salary than the employee whose last_name = 'Bull'.

```sql
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY > (SELECT salary
                FROM employees
                WHERE last_name = 'Bull');
```

8- Write a query to find the names (first_name, last_name) of the employees who have a manager who works for a department based in the United States

```
SELECT first_name, last_name FROM employees
WHERE manager_id IN
     (SELECT employee_id
      FROM employees
      WHERE department_id IN
               (SELECT department_id
               FROM departments
               WHERE location_id IN
           (SELECT location_id
            FROM locations
            WHERE country_id = 'US')
     )
          );
```

9- Write a query to find the names (first_name, last_name), the salary of the employees whose salary is greater than the average salary

```
SELECT first_name, last_name, salary FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees);
```

10- Write a query to find the names (first_name, last_name), the salary of the employees who earn more than the average salary and who works in any of the IT departments.

```
SELECT first_name, last_name, salary
FROM employees
WHERE department_id IN
          (SELECT department_id
           FROM departments
           WHERE depart_name LIKE 'IT%')
           AND salary > (SELECT AVG(salary) FROM employees);
```