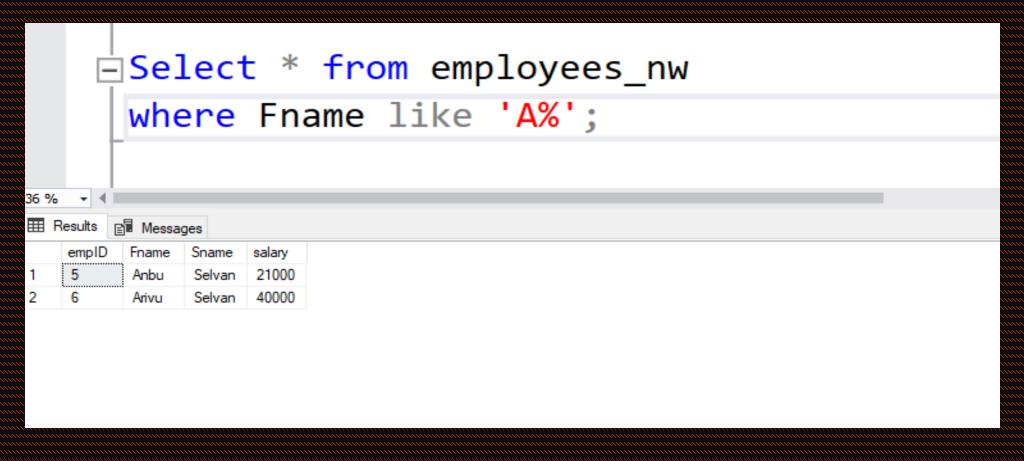
Important SQL Interview Questions and Answers 2

1) Write an SQL query to retrieve all details where name from employee table which starts with 'A'?



2) Write a query to calculate the even and odd records from a Table?

```
ĖSelect *,
   Case when ([empID]%2)=0 then 'Even'
           When ([empID]%2)=1 then 'Odd'
           end as Even odd
           from employees nw;

    Messages

       Sname
                  Even odd
  Ram
       Sundar
              23000
                 Odd
       Pichai
             44000 Even
  Sunar
             67000 Odd
       Kumar
  Mani
             85000
  Babu
       Kaja
                  Even
             21000 Odd
       Selvan
  Anbu
```

3) Write a query to display the first and the last record from the employee table?

```
Select * from employees_nw
   where empID in (Select MIN(empid) from employees_nw);
  Select * from employees_nw
   where empID in (Select Max(empid) from employees_nw);
Results Messages
   Fname Sname salary
        Sundar
            23000
 empID
    Fname
              50000
        Ramasamy
```

4) How to concatenate the FIRSTNAME, MiddleName and LASTNAME from EMP table to give a complete name?

```
--Method 1
   Select *, FirstName +' '+Isnull(MiddleName,'')+' '+LastName as FUllname from tbStudent;
   --Method 2
   Select *, FirstName +' '+coalesce(MiddleName,'')+' '+LastName as FUllname from tbStudent;
   --Method 3
   Select *, CONCAT(FirstName, ' ', MiddleName, ' ', LastName) as FUllname from tbStudent;
Results Messages
       FirstName
              MiddleName LastName FUllname
        Ankit
              Kumar
                      Sharma
                             Ankit Kumar Shama
        Rahul
              NULL
                      Singh
                             Rahul Singh
              NULL
                            Mayank Shama
        Mayank
                      Shama
              Singh
                      Thakur
                             Rajesh Singh Thakur
        Rajesh
       Narender
              NULL
                      Chauhan Narender Chauhan
                             Puneet Kumar Verma
        Puneet
              Kumar
                             Varun Shawan
        Varun
                       Shawan
```

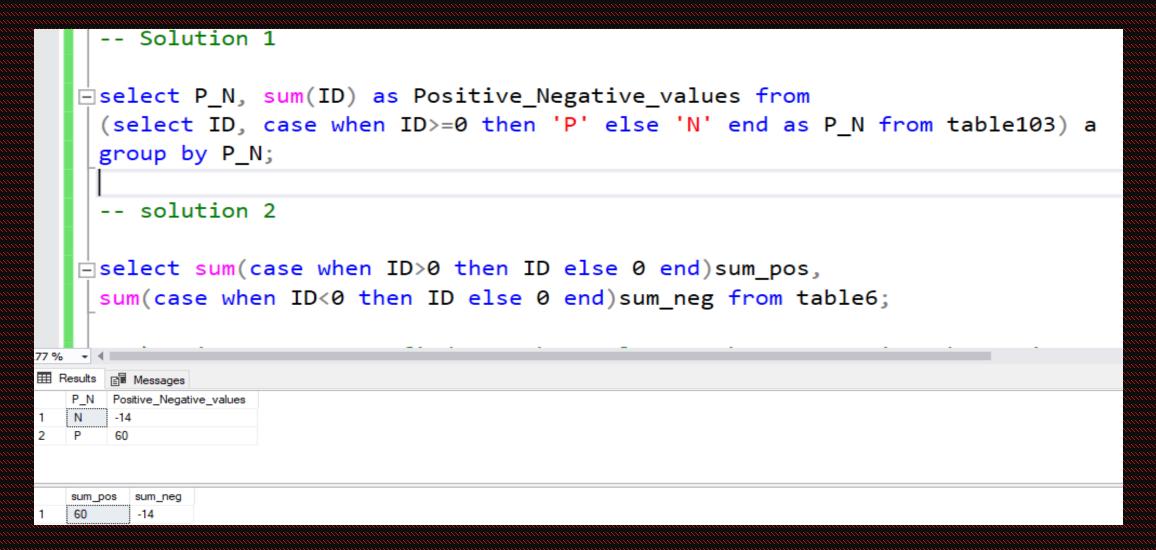
5) How do you split the first name, middle name, and last name in SQL?

```
substring(FullName,1,CHARINDEX(' ',fullname)-1) as FirstName,
         substring(Right(Fullname,len(fullname)-charindex(' ',fullname)),1,charindex(' ',
         Right(Fullname, len(fullname)-charindex(' ', fullname)))) As Middle Name,
         SUBSTRING(Fullname, LEN(fullname)-CHARINDEX(' ', REVERSE(Fullname))+1,
         LEN(fullname)) As Last_name
         from tbStudent new;
Results Resages
  FullName
                FirstName
                      Middle Name
                              Last name
   Ankit Kumar Shama
                 Ankit
                               Shama
   Rahul Singh
                 Rahul
                               Singh
   Mayank Sharma
                 Mayank
                               Shama
   Sachin Ramesh Tendulkar
                               Tendulkar
   Puneet Kumar Verma
                 Puneet
                               Verma
```

6) Write an SQL query to report all customers who never order anything?

```
-- solution 1
   iselect id,name from
    (select a.id, A.name, B.orderid from table1a A left join table1b B on A.id =B.id) a
    where orderid is null;
    -- solution 2
   ⊟select id,name from table1a
    where id not in (select id from table1b);
.77 %
```

7) Write a single query to calculate the sum of all positive value of x and the sum of all negative value of x?



8) Write a query to find out the employees who are getting the maximum salary in their departments?

```
∃Select * from
    (Select *,
    RANK() over(partition by deptno order by salary desc) RK
    from table104) a
    Where RK =1;
salary RK
         2831
         1006
         2124 1
```

9) Find out department-wise minimum salary, maximum salary, total salary and average salary?

Select deptno, MAX(salary) as Max_salary, MIN(salary) as Min_salary, SUM(salary) as Total_salary, AVG(salary) as Avg_salary from table104 group by deptno; Results Messages Min_salary Max_salary Total salary Avg_salary 5733 1911 1802 1109

10) Write a query to find out the deviation from average salary for the employees who are getting more than the average?

```
-- Solution 1
   select *, salary - avg salary as Devivation from
    (Select *,
    AVG(salary) over() as avg_salary
    from table104) a
    where salary > avg salary;
    -- Solution 2
   Avg salary, salary - (select AVG(salary) from table104) as Deviation
    from table104
    where salary > (select AVG(salary) from table104);
Ⅲ Results 📳 Messages
              salary
                  Avg salary
                         Deviation
          deptno
   name
   Anbu
               2831
                   1686
                          1145
              1988
                   1686
                          302
   Ajay
   Ramasamv
               2960
                   1686
                          1274
                   1686
                          124
              1810
```