# **Answer Sheet - SQL**

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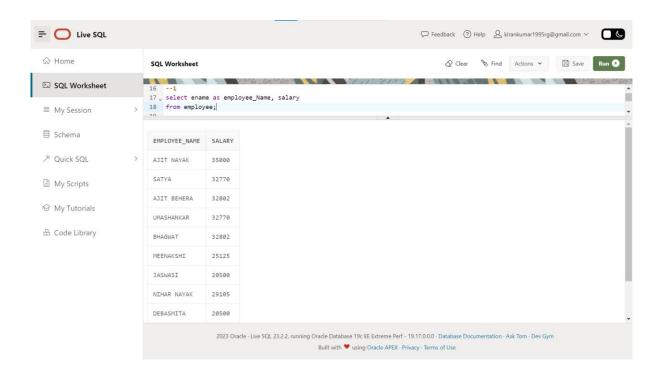
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## **Major Question 1**

A)List the salary of all the employees.

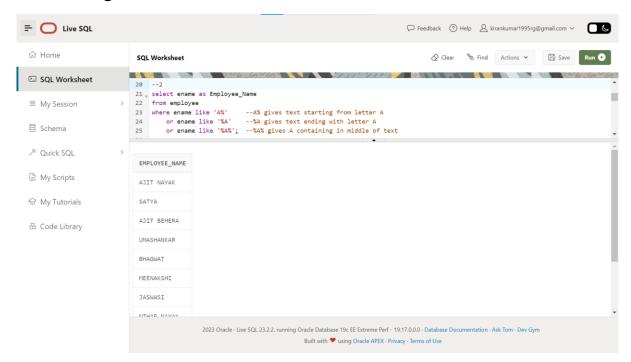
select ename as employees\_Name, salary from employee;

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B) Display the names of all employees with any "A" at any place of the name.

select ename as Employee\_Name
from employee
where ename like 'A%'
or ename like '%A'
or ename like '%A%';
--%A% gives text ending with letter A
or ename like '%A%';
--%A% gives A containing in middle of text

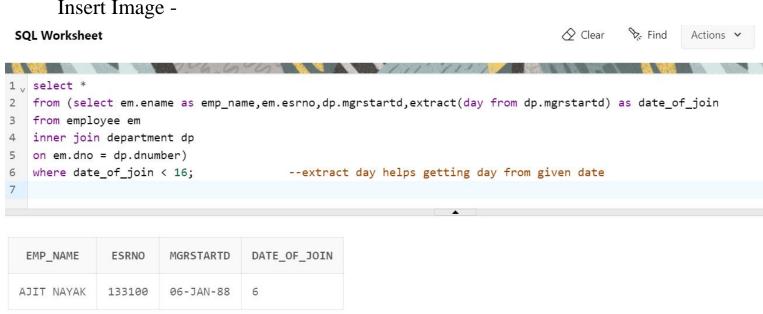


C) Show all employees who were hired in the first half of the month (Before the 16th of the month).

select \* from (select em.ename as emp\_name,em.esrno,dp.mgrstartd,extract(day from dp.mgrstartd) as date\_of\_join from employee em inner join department dp on em.dno = dp.dnumber) where date\_of\_join < 16;

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# D)Display the name of all female employees.

```
select ename as employee_name, address,esrno
from employee
where sex='F'; --feltering done based on sex
```

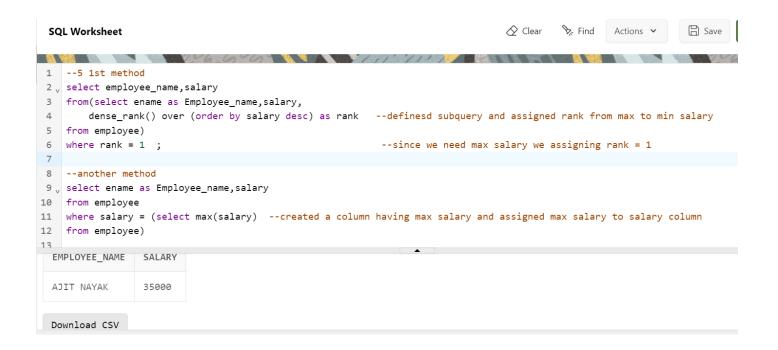


### E) Display the employee who is paid most in the company.

```
--5 1st method
select employee_name,salary
from(select ename as Employee_name,salary,
    dense_rank() over (order by salary desc) as rank --definesd subquery and assigned rank from max to min salary
from employee)
where rank = 1; --since we need max salary we assigning rank = 1

--another method
select ename as Employee_name,salary
from employee
where salary = (select max(salary) --created a column having max salary and assigned max salary to salary column
from employee)
```

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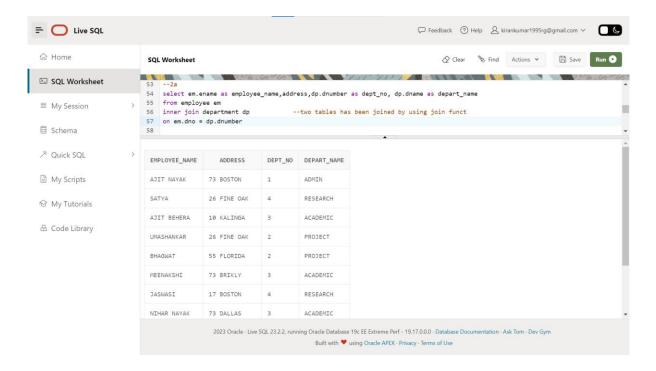
Note: I have solved this question by using 2 methods

- 1) Using window function and subquery
- 2) Using subquery and filtering

## **Major Question 2**

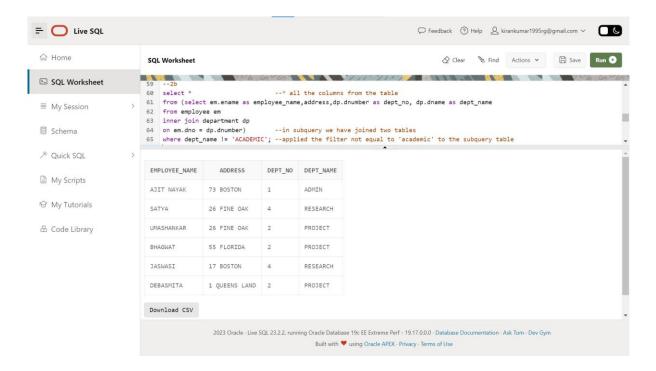
A)Display employee name, address, department no and department name.

select em.ename as employee\_name,address,dp.dnumber as dept\_no, dp.dname as depart\_name from employee em inner join department dp --two tables has been joined by using join funct on em.dno = dp.dnumber



## B) Display all the employees who are not in ACADEMIC department

```
select * --* all the columns from the table
from (select em.ename as employee_name,address,dp.dnumber as dept_no, dp.dname as dept_name
from employee em
inner join department dp
on em.dno = dp.dnumber) --in subquery we have joined two tables
where dept_name != 'ACADEMIC'; --applied the filter not equal to 'academic' to the subquery table
```



## C) Display SATYAS' project location.

```
select em.ename as Emp_name, em.address,dl.plocation
from employee em
inner join project dl --join funct to join taables
on em.dno = dl.dnum
where ename = 'SATYA'; --applied filter for ename column
```

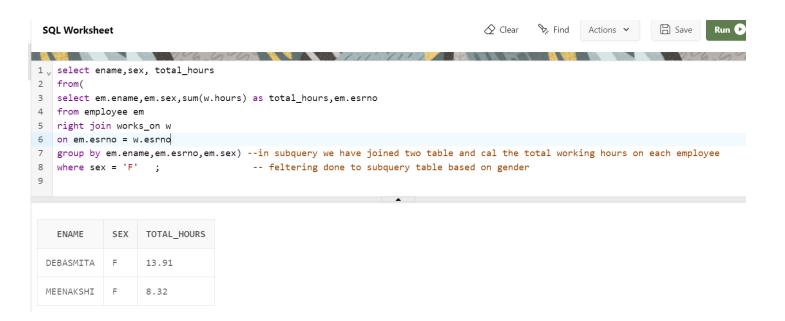
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```
SQL Worksheet
79 select em.ename as Emp_name, em.address,dl.plocation
    from employee em
81
    inner join project dl
                                              --join funct to join taables
82
    on em.dno = dl.dnum
    where ename = 'SATYA';
                                               --applied filter for ename column
83
84
 EMP_NAME
               ADDRESS
                           PLOCATION
             26 FINE OAK
 SATYA
                           KOREA
```

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### D)Find the total working hours of each female employee.

```
select ename,sex, total_hours
from(
select em.ename,em.sex,sum(w.hours) as total_hours,em.esrno
from employee em
right join works_on w
on em.esrno = w.esrno
group by em.ename,em.esrno,em.sex) --in subquery we have joined two table and cal the total working hours on
each employee
where sex = 'F' ; -- feltering done to subquery table based on gender
```



## E) Display the details of the people whose projects are located at SOUTH AFRICA.

```
select * -- '*' is used to get details of each employee
from employee em
inner join project p --joining the two table
on em.dno = p.dnum
where plocation = 'SOUTH AFRICA' --feltering done based on project location
```

