**Answer Sheet - SQL**

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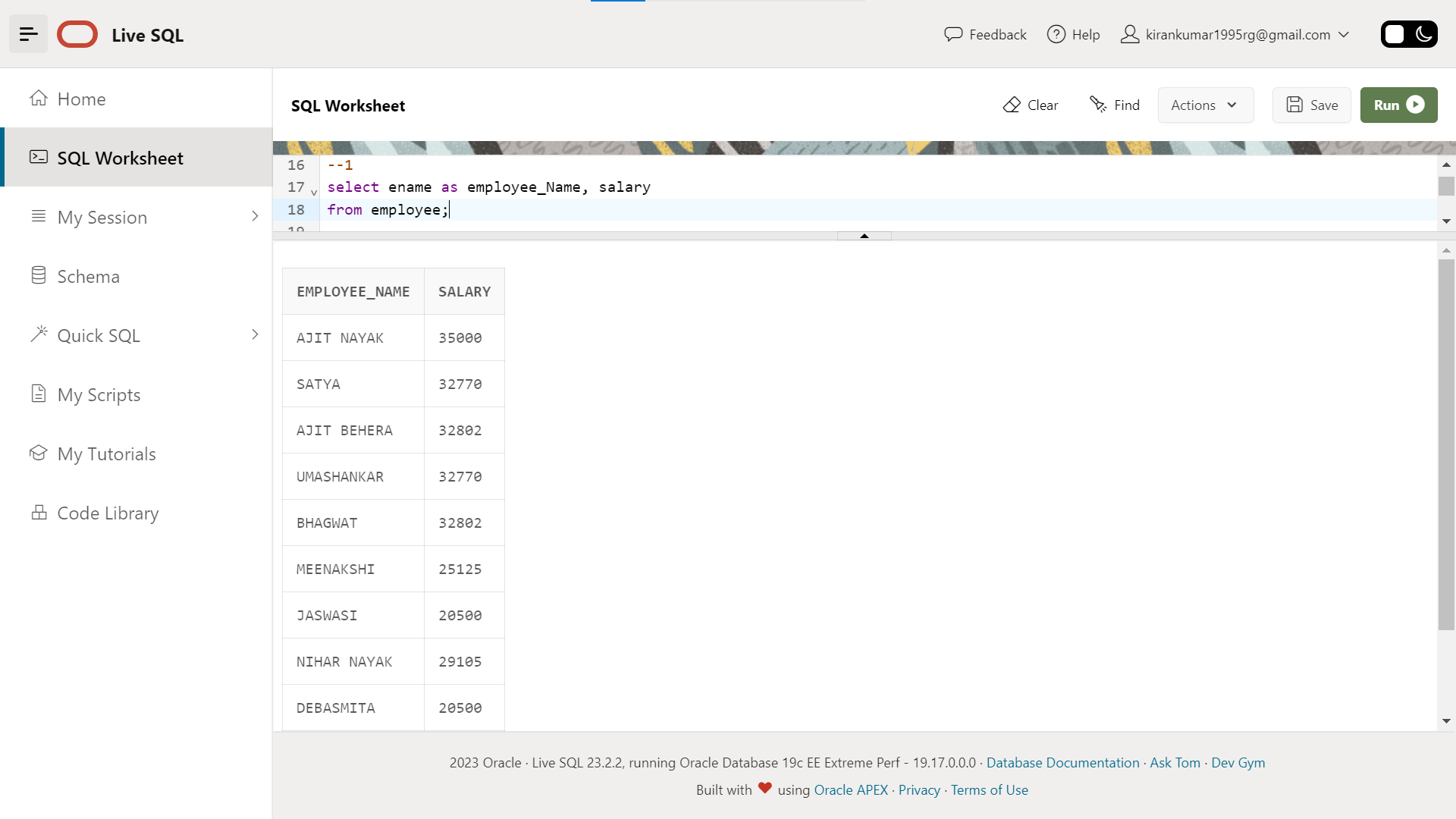
**Major Question 1**

1. List the salary of all the employees.

select ename as employees\_Name, salary

from employee;

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1. Display the names of all employees with any “A” at any place of the name.

select ename as Employee\_Name

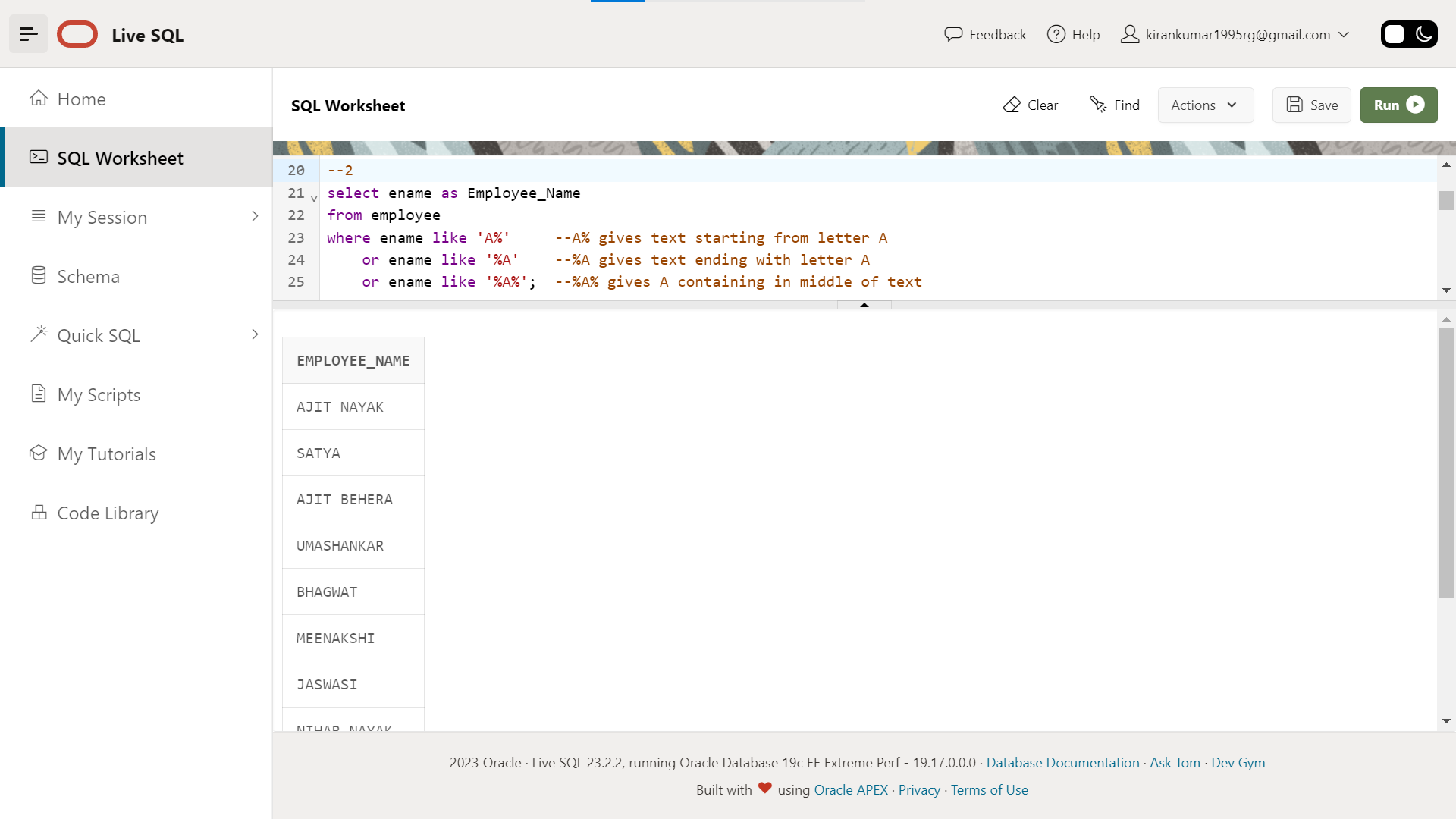
from employee

where ename like 'A%' --A% gives text starting from letter A

or ename like '%A' --%A gives text ending with letter A

or ename like '%A%'; --%A% gives A containing in middle of text

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

select \*

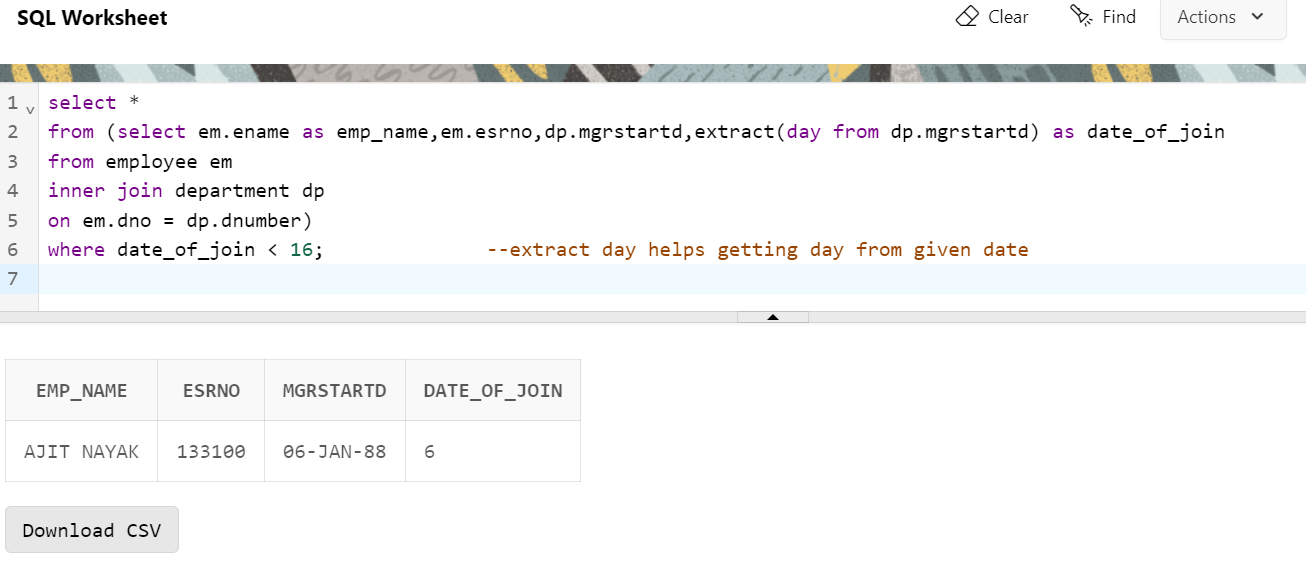
from (select em.ename as emp\_name,em.esrno,dp.mgrstartd,extract(day from dp.mgrstartd) as date\_of\_join

from employee em

inner join department dp

on em.dno = dp.dnumber)

where date\_of\_join < 16;

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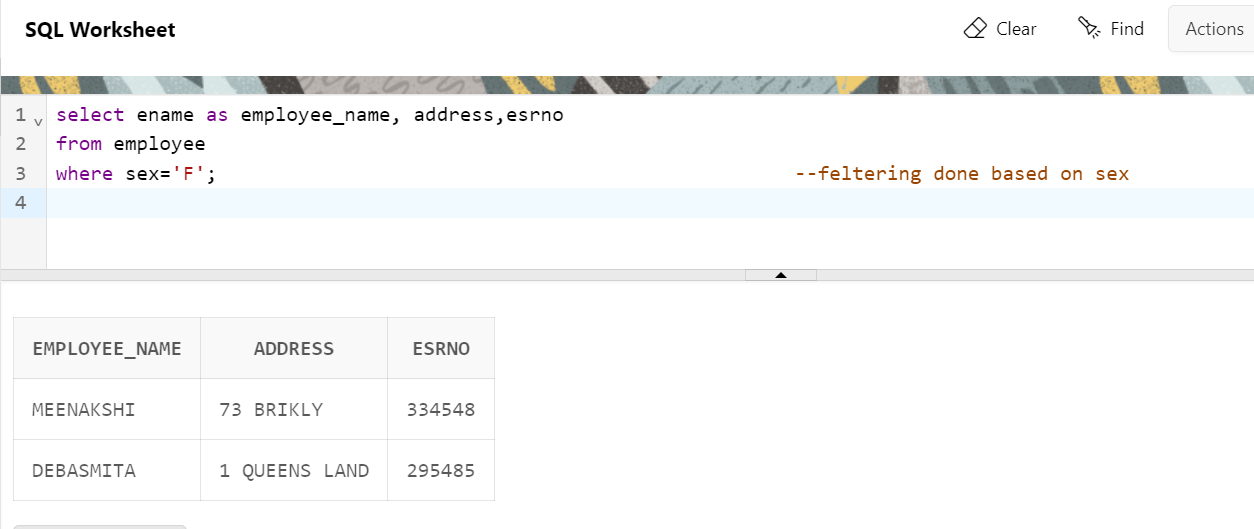
1. Display the name of all female employees.

select ename as employee\_name, address,esrno

from employee

where sex='F'; --feltering done based on sex

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1. 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

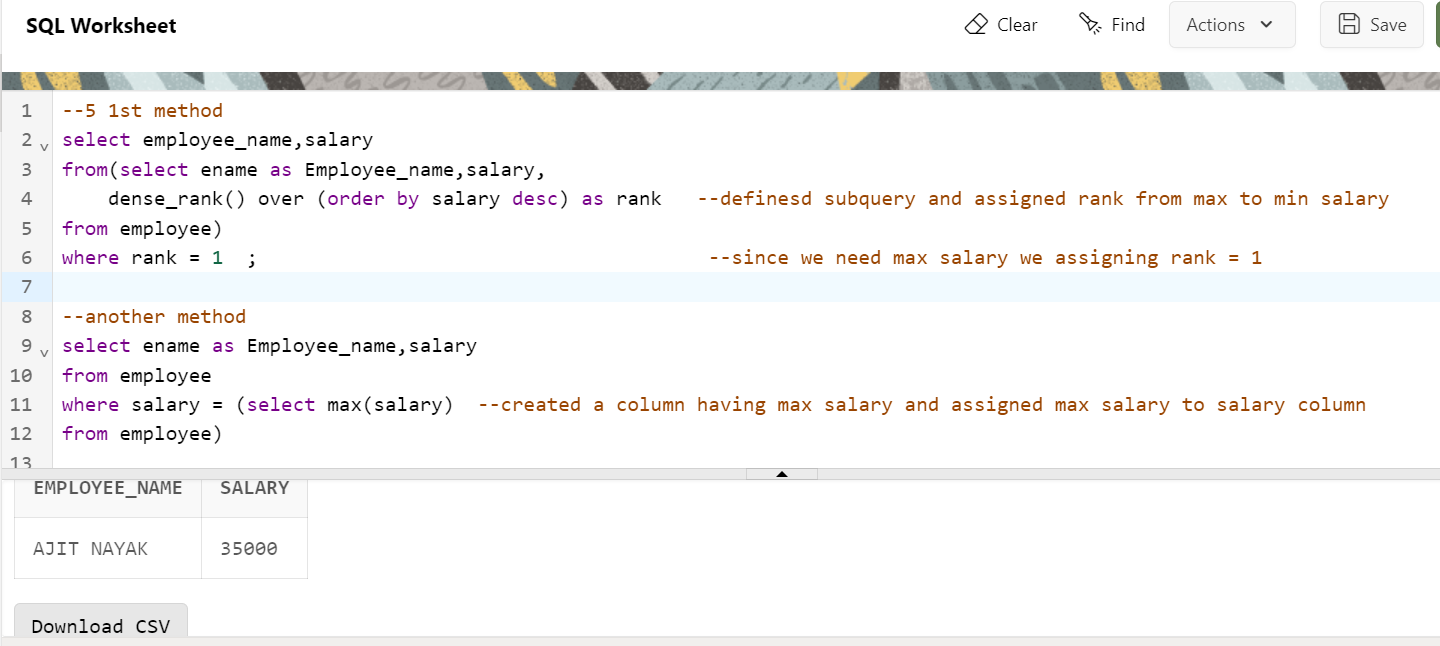
select ename as Employee\_name,salary

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**

1. Display employee name, address, department no and department name.

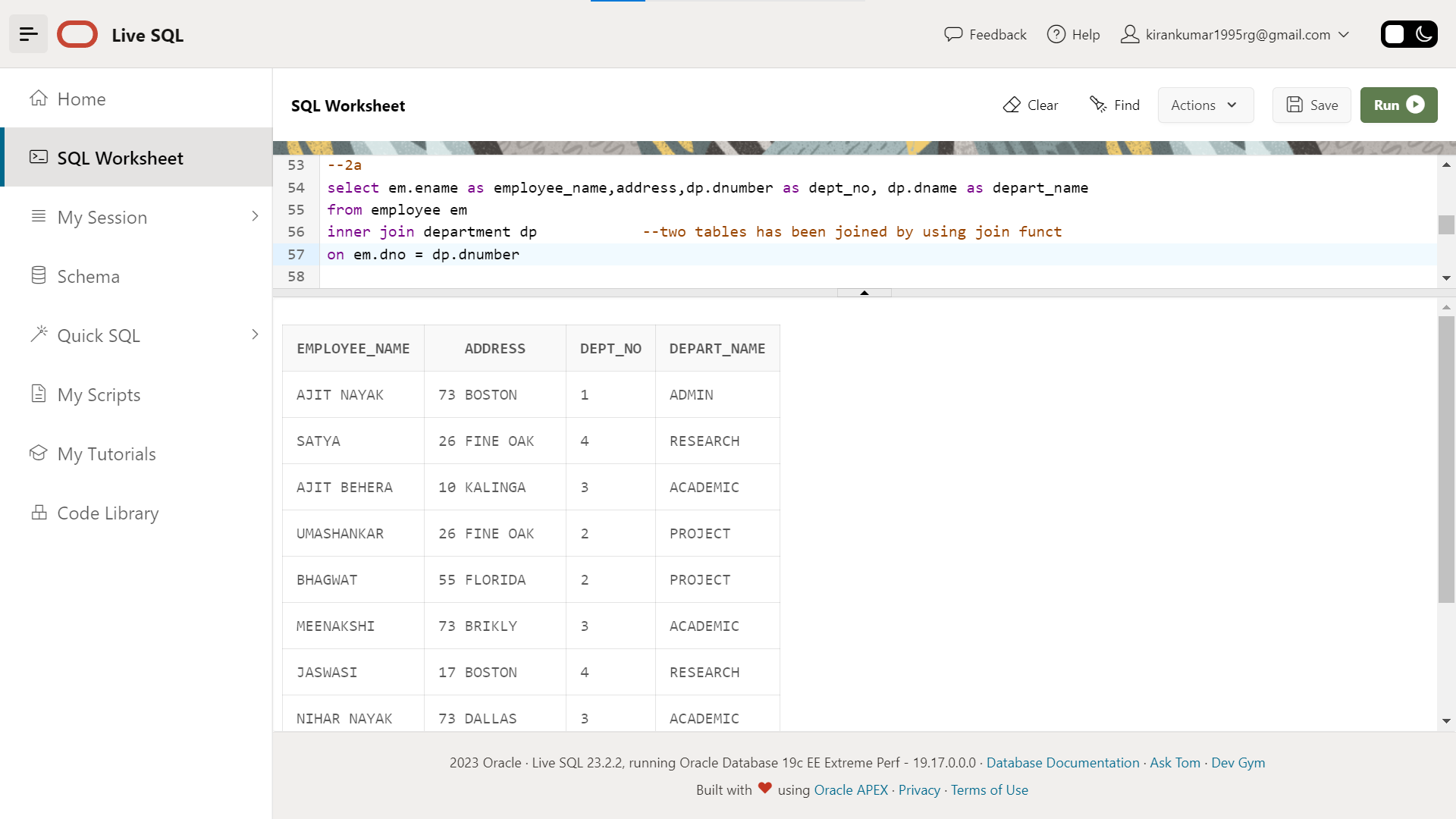
select em.ename as employee\_name,address,dp.dnumber as dept\_no, dp.dname as depart\_name

from employee em

inner join department dp --two tables has been joined by using join funct

on em.dno = dp.dnumber

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1. 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

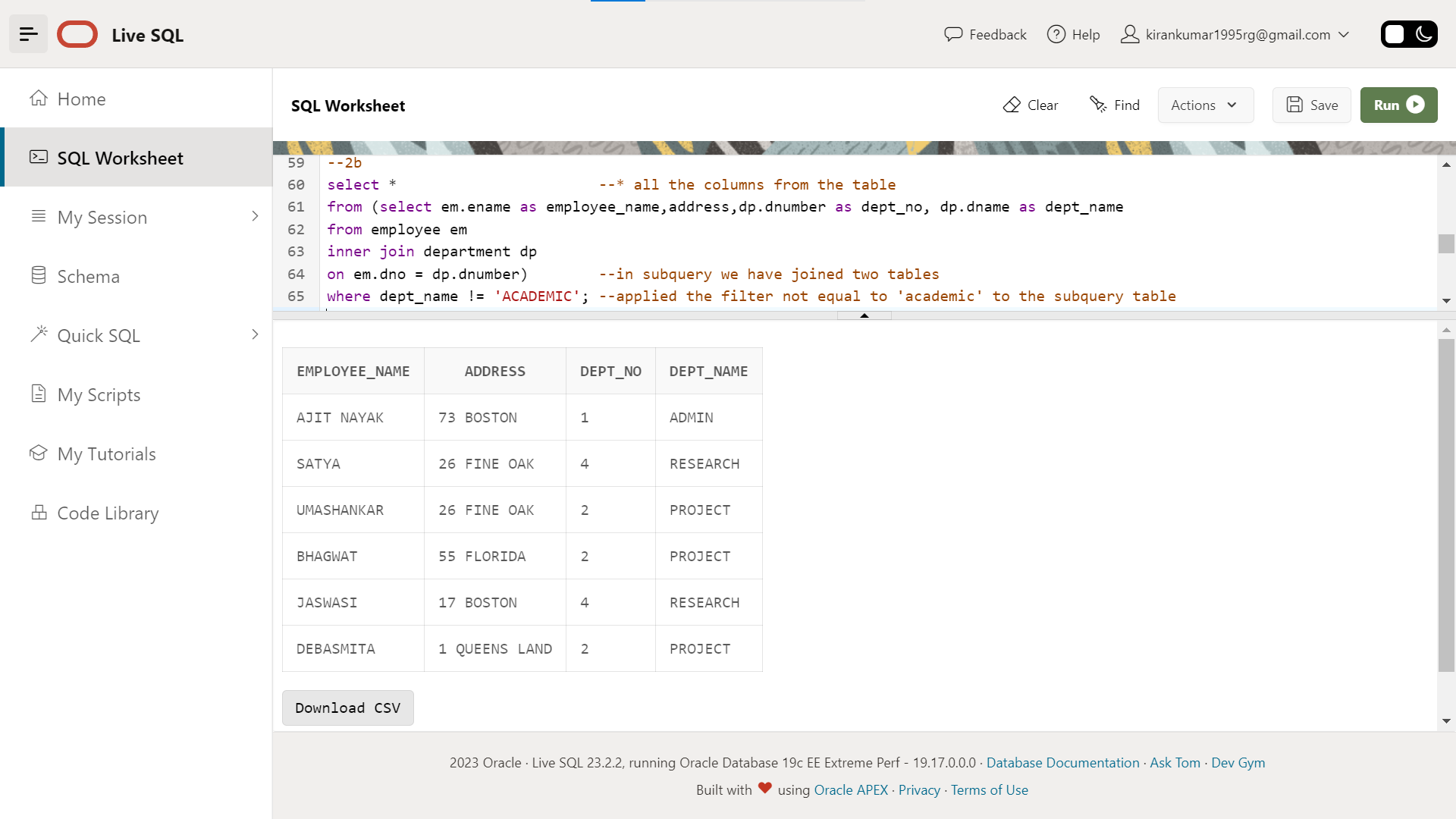
from employee em

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

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1. Display SATYAS’ project location.

select em.ename as Emp\_name, em.address,dl.plocation

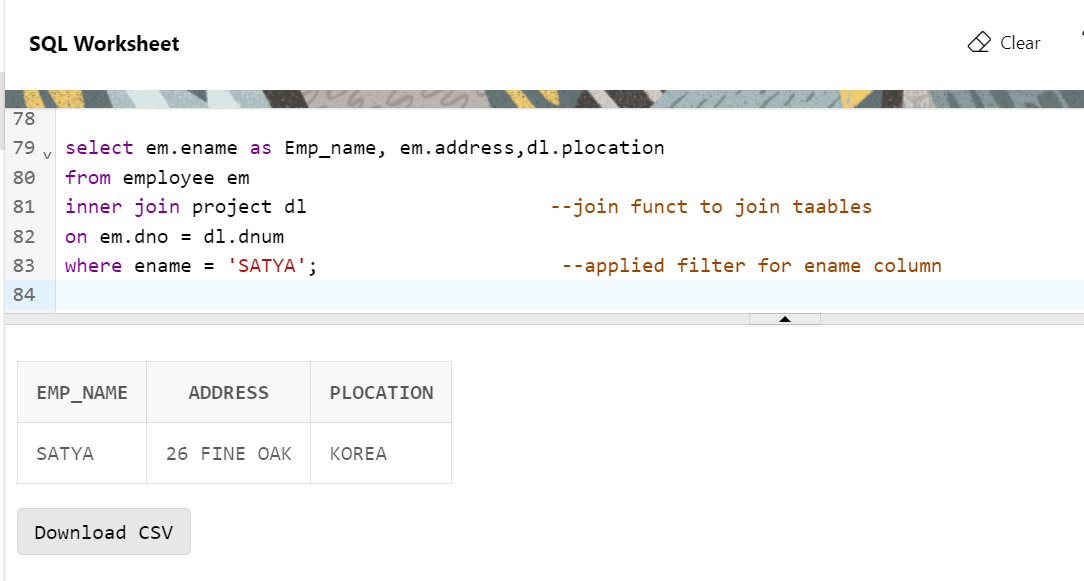
from employee em

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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1. 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

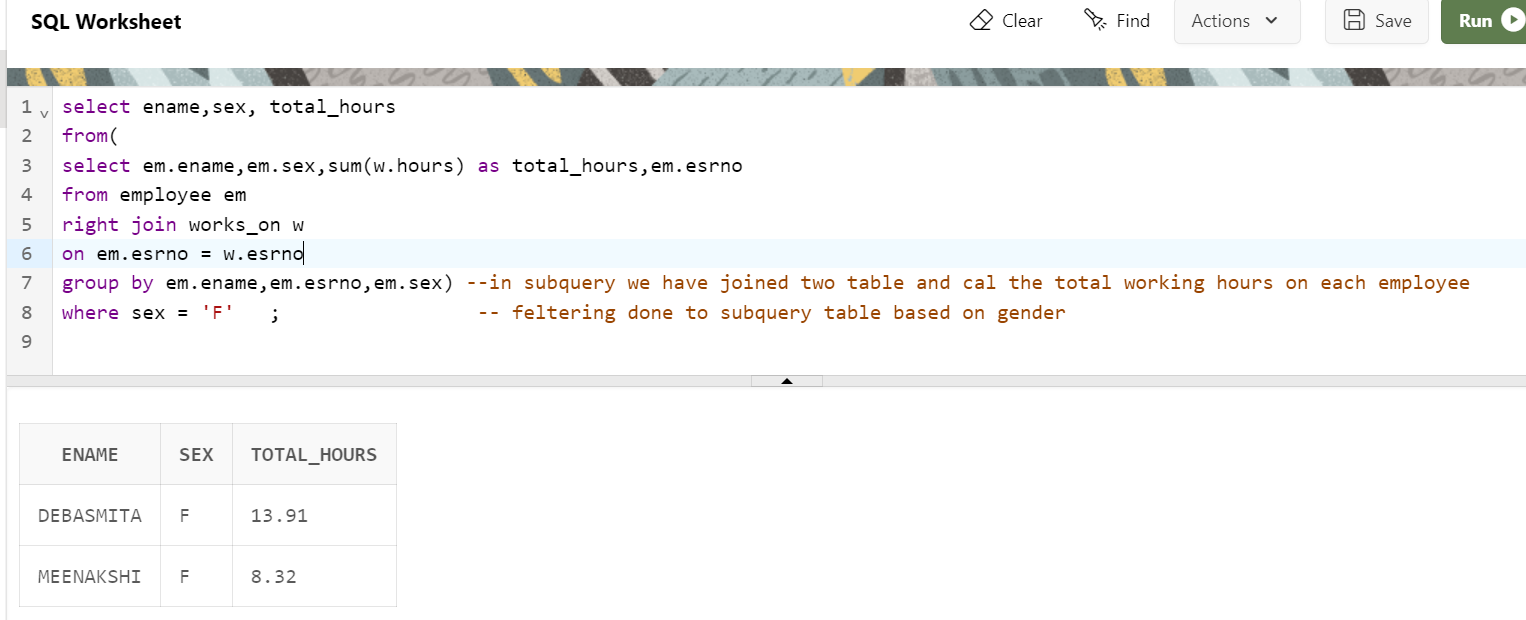
right join works\_on w

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

Insert Image -



1. Display the details of the people whose projects are located at SOUTH AFRICA.

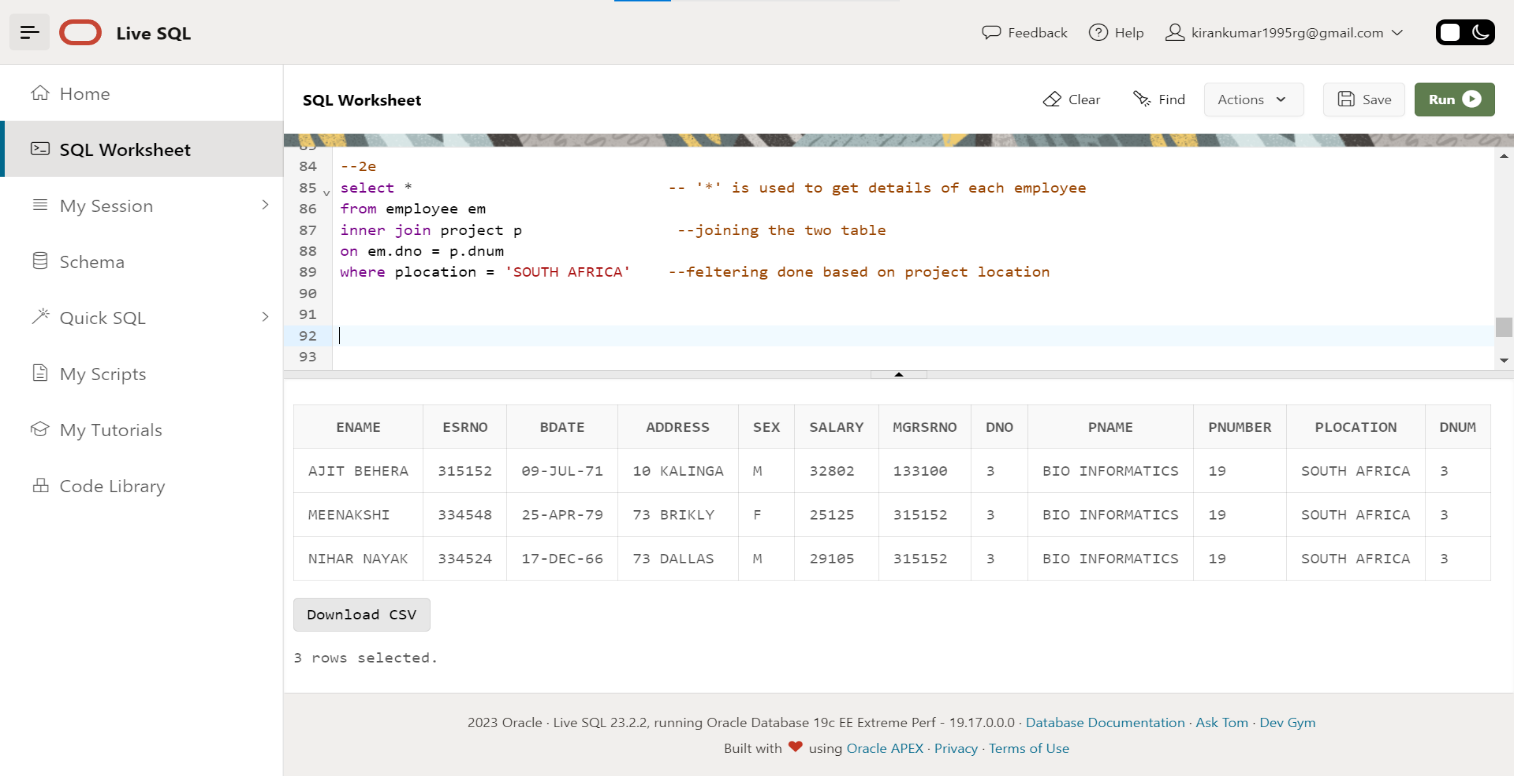
select \* -- '\*' is used to get details of each employee

from employee em

inner join project p --joining the two table

on em.dno = p.dnum

where plocation = 'SOUTH AFRICA' --filtering done based on project location

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