**B\_18\_DAYAL ADITYA KISHOR**

**Assignment No. 7**

**Title:**

Study and Implementation of

* Sub queries(nested queries)
* Views

**Problem Statement:**

Employee (employee-name, street, city)

Works (employee-name, company-name, salary)

Company (company-name, city)

Managers (employee-name, manager-name)

Insert appropriate data in the tables.

**Queries:**

Solve Query 1 to 4 using appropriate operation in, not in, all, some, exists etc

1. Find the names, street address, and cities of residence of all employees who work for Tata and earn more than $10,000
2. Find all employees in the database who do not work for Tata
3. Find all employees in the database who earn more than every employee of Reliance
4. Find the company that has the smallest payroll
5. Create a view for names and cities of residence of all employees who work for First Bank Corporation

**Answers:**

Create a Table employee:

create table employee(employee\_name varchar(20) primary key ,street varchar(20), city varchar(20));

Create a Table company:

create table company(company\_name varchar(50) primary key, city varchar(20));

Create a Table works:

create table works(employee\_name varchar(20), company\_name varchar(50), salary decimal(10,2),primary key(employee\_name,company\_name), foreign key(employee\_name) references employee(employee\_name), foreign key(company\_name) references company(company\_name));

Create a Table managers:

create table manages(employee\_name varchar(20), manager\_name varchar(20), primary key(manager\_name));

Insert Values

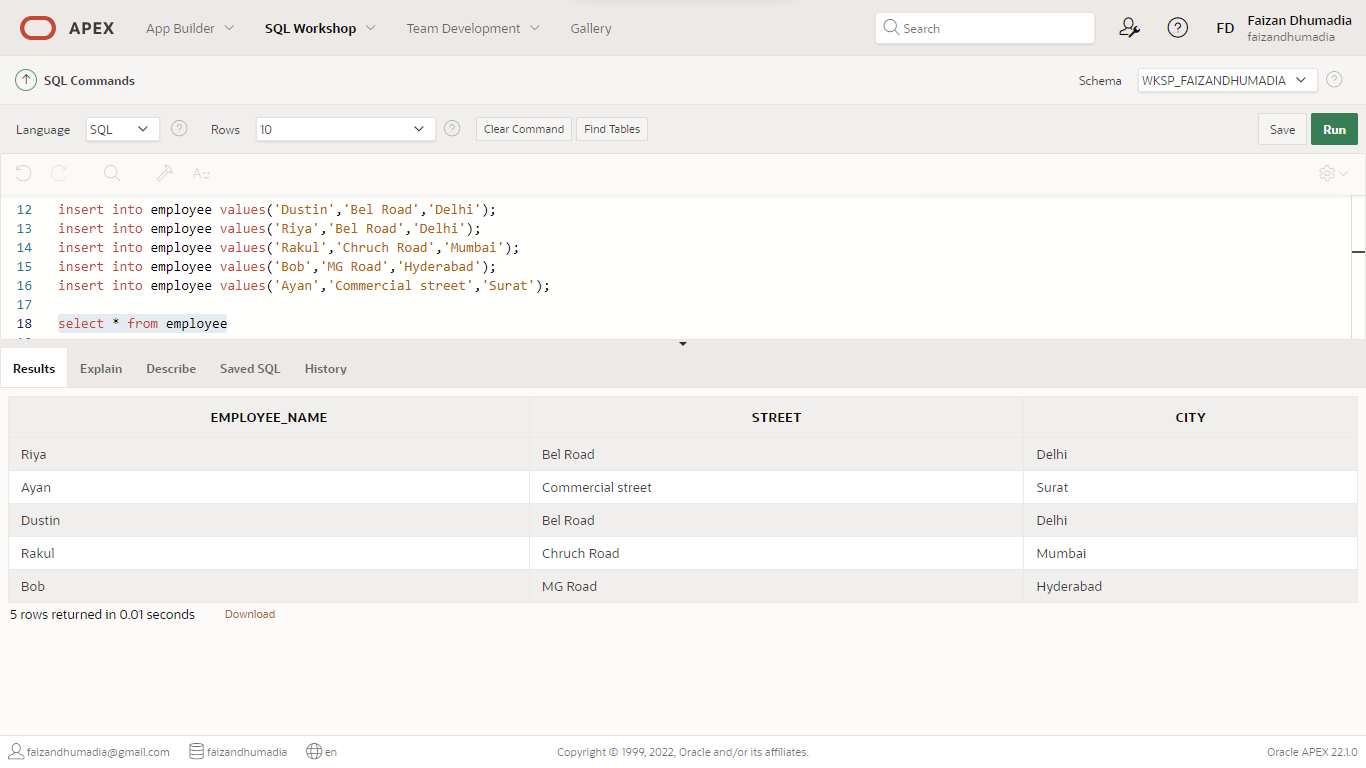
insert into employee values('Dustin','Bel Road','Delhi');

insert into employee values('Riya','Bel Road','Delhi');

insert into employee values('Rakul','Chruch Road','Mumbai');

insert into employee values('Bob','MG Road','Hyderabad');

insert into employee values('Ayan','Commercial street','Surat');



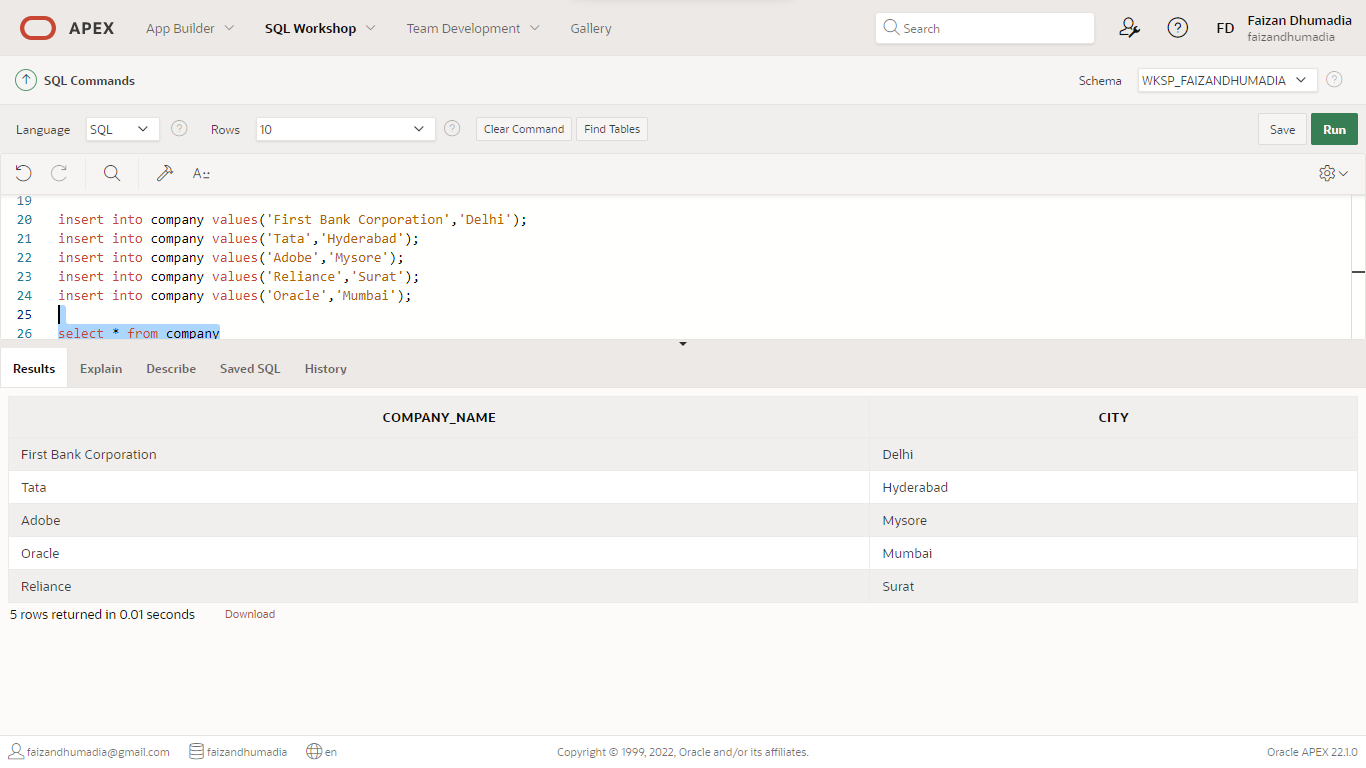
insert into company values('First Bank Corporation','Delhi');

insert into company values('Tata','Hyderabad');

insert into company values('Adobe','Mysore');

insert into company values('Reliance','Surat');

insert into company values('Oracle','Mumbai');



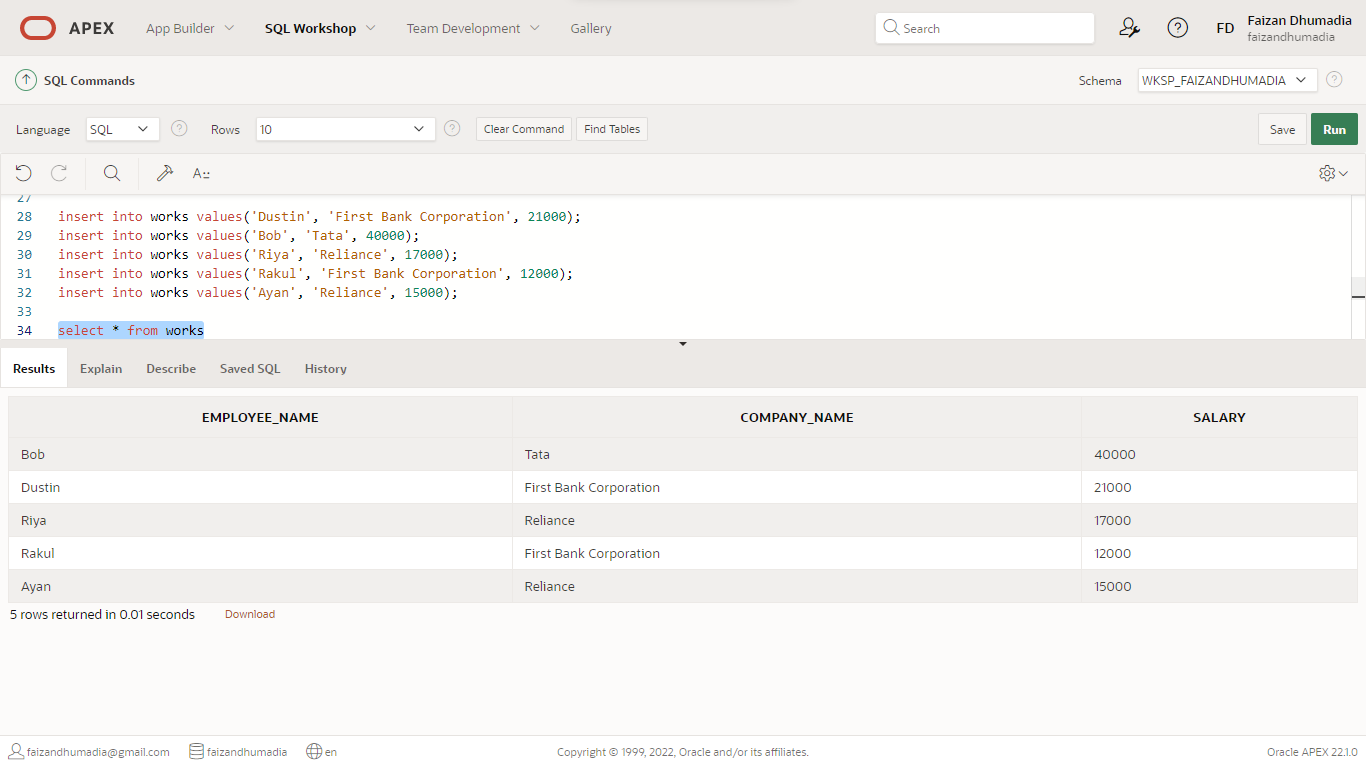
insert into works values('Dustin', 'First Bank Corporation', 21000);

insert into works values('Bob', 'Tata', 40000);

insert into works values('Riya', 'Reliance', 17000);

insert into works values('Rakul', 'First Bank Corporation', 12000);

insert into works values('Ayan', 'Reliance', 15000);



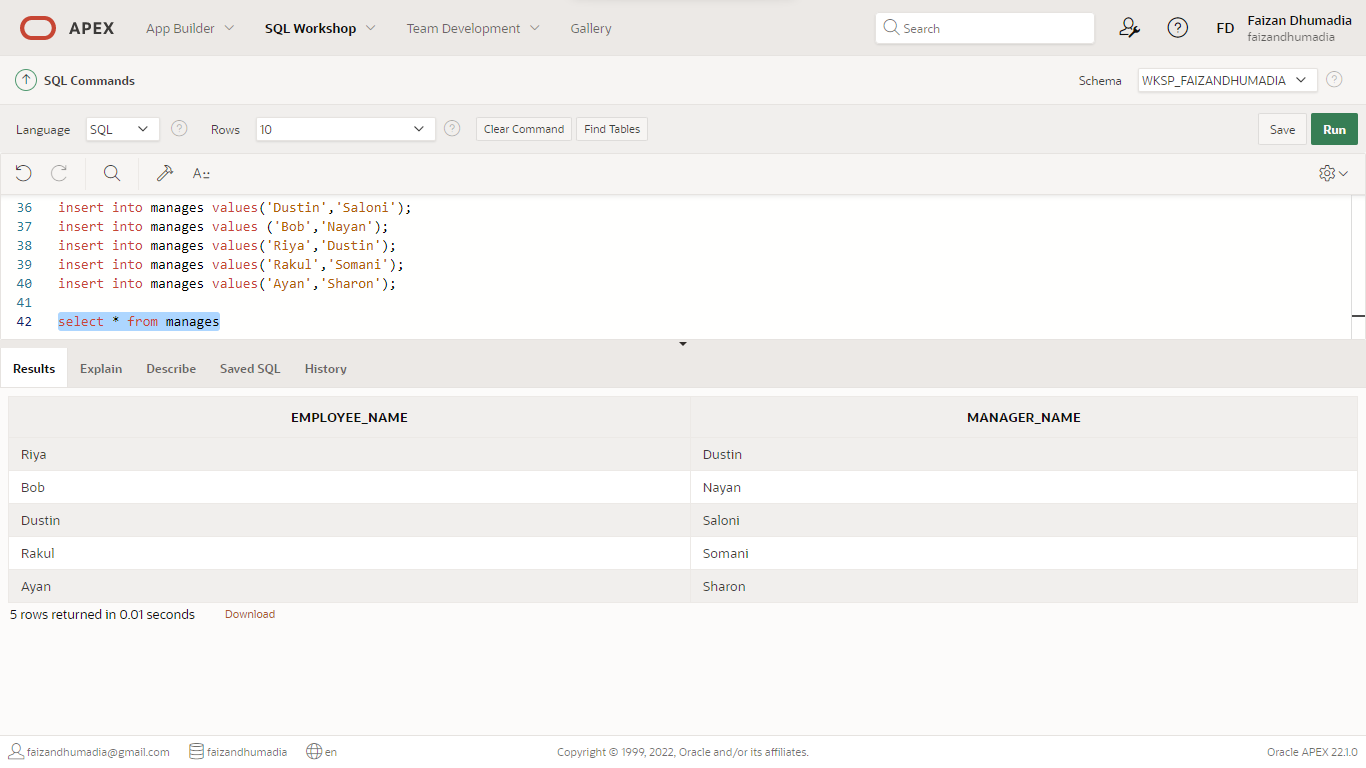
insert into manages values('Dustin','Saloni');

insert into manages values ('Bob','Nayan');

insert into manages values('Riya','Dustin');

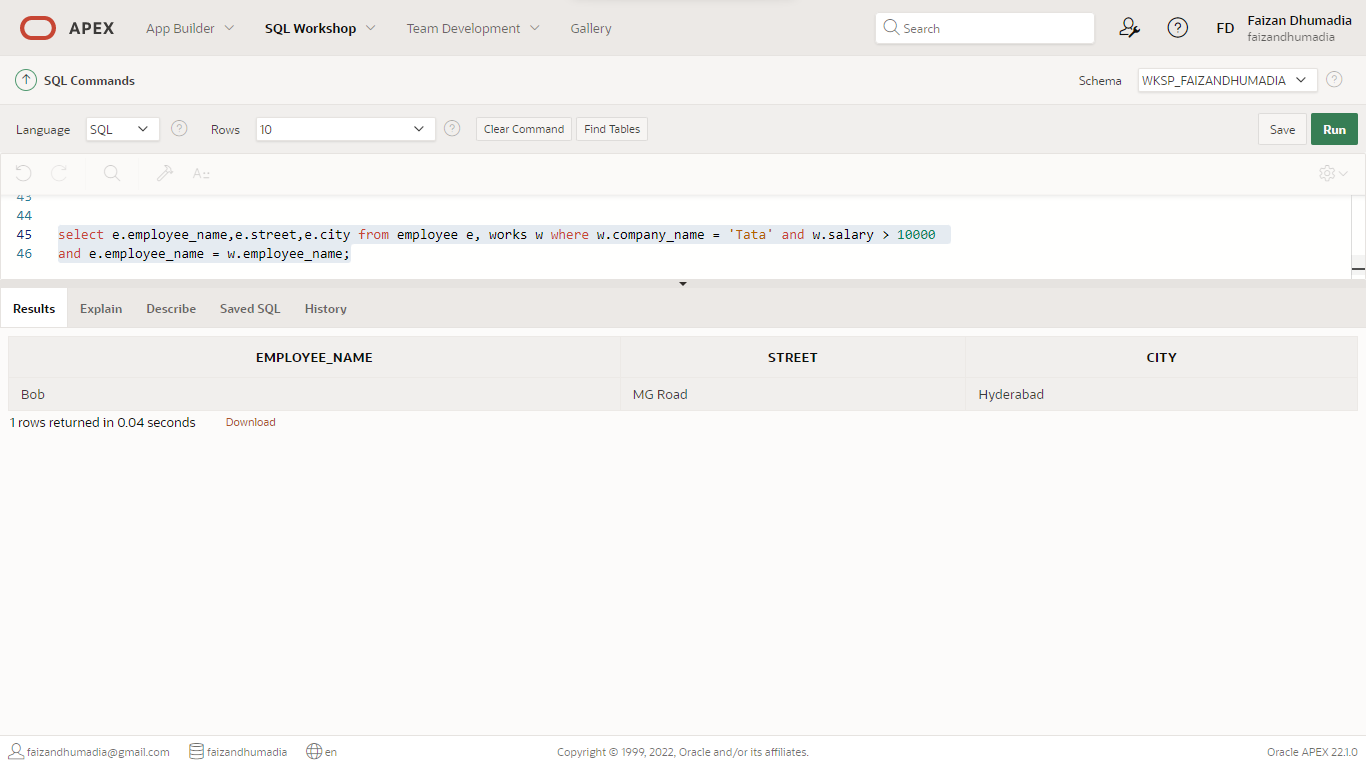
insert into manages values('Rakul','Somani');

insert into manages values('Ayan','Sharon');



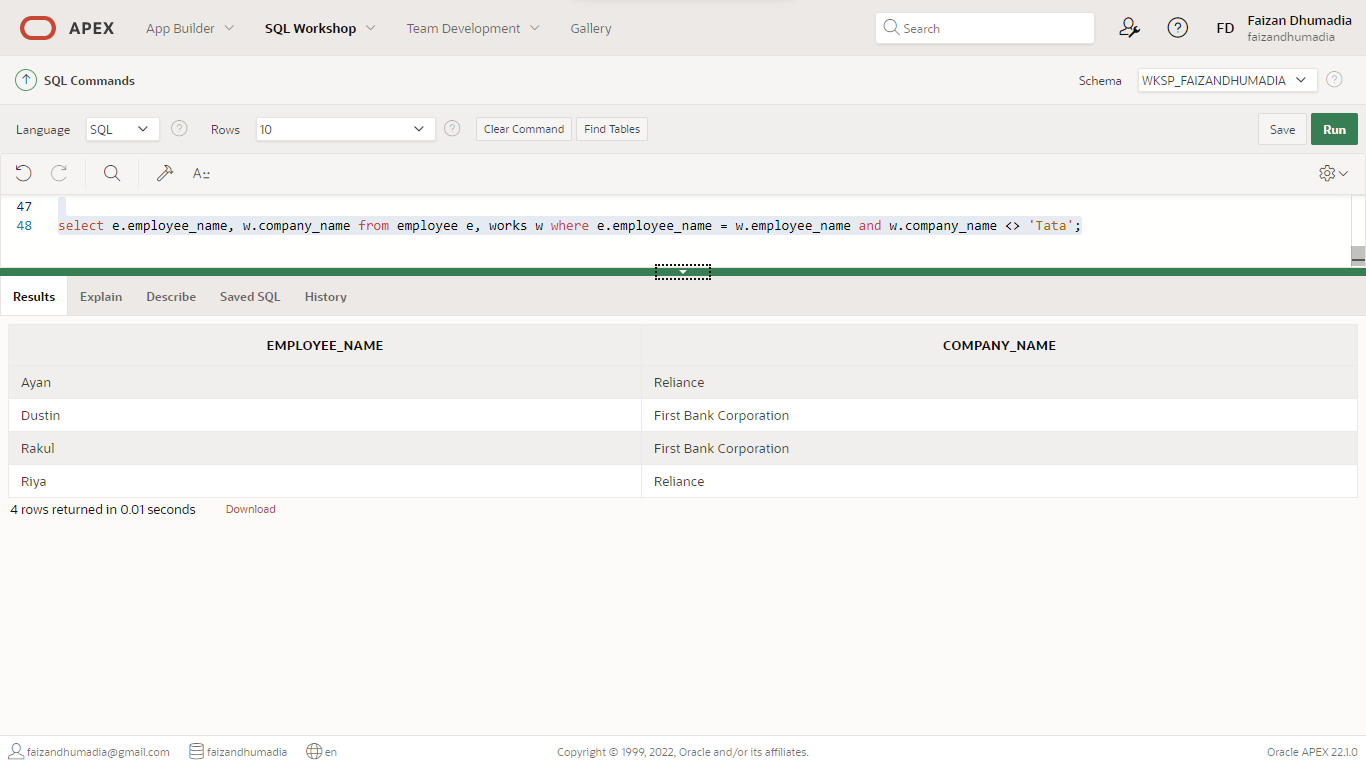
1. Find the names, street address, and cities of residence of all employees who work for Tata and earn more than $10,000

select e.employee\_name,e.street,e.city from employee e, works w where w.company\_name = 'Tata' and w.salary > 10000 and e.employee\_name = w.employee\_name;



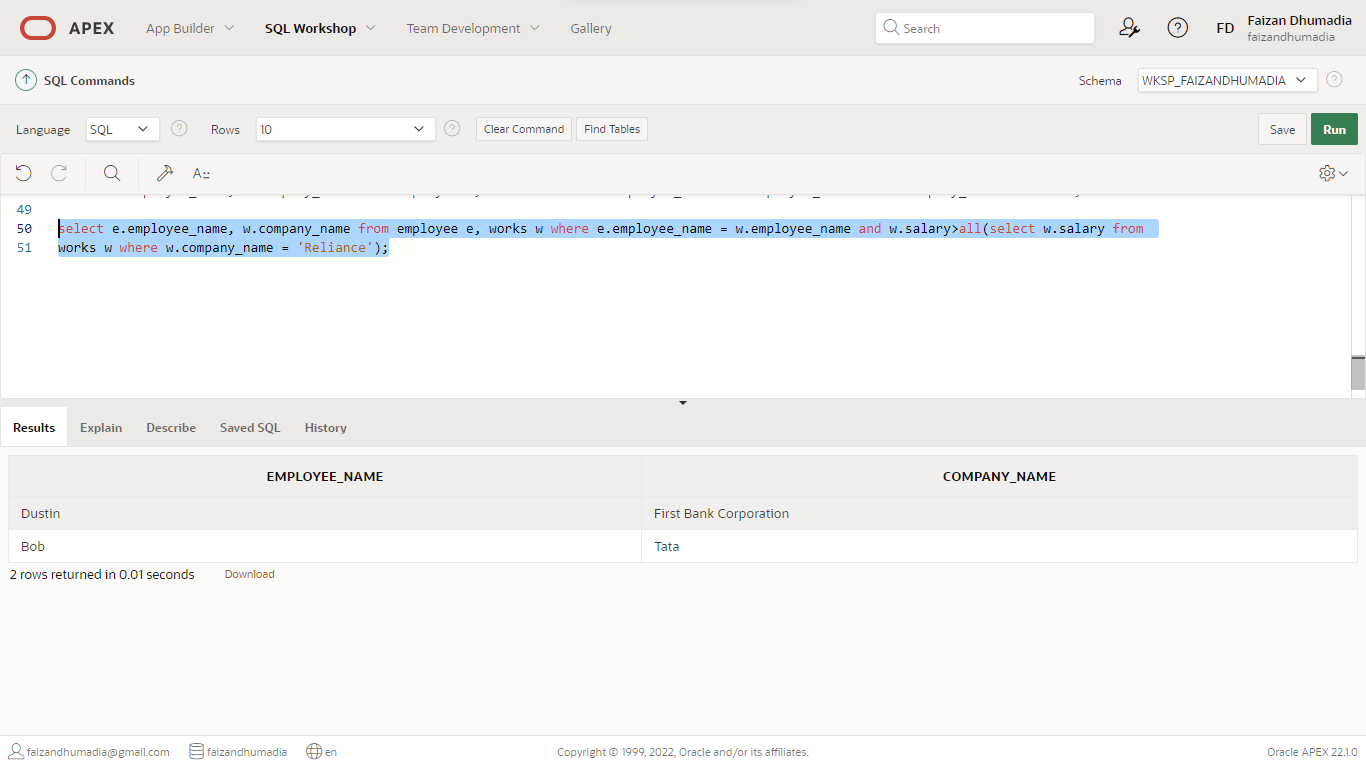
2. Find all employees in the database who do not work for Tata

select e.employee\_name, w.company\_name from employee e, works w where e.employee\_name = w.employee\_name and w.company\_name <> 'Tata';



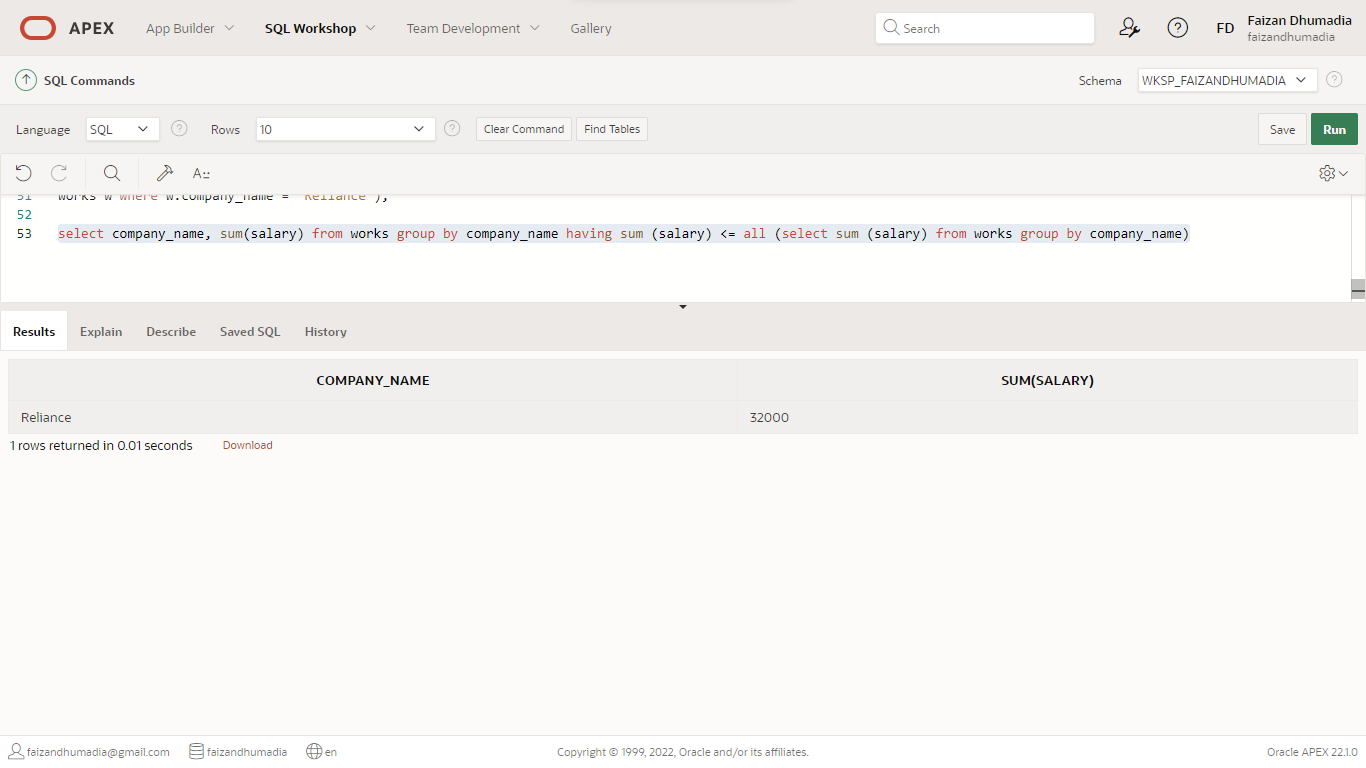
3. Find all employees in the database who earn more than every employee of Reliance

select e.employee\_name, w.company\_name from employee e, works w where e.employee\_name = w.employee\_name and w.salary>all(select w.salary from works w where w.company\_name = 'Reliance');



4. Find the company that has the smallest payroll

select company\_name, sum(salary) from works group by company\_name having sum (salary) <= all (select sum (salary) from works group by company\_name)



5. Create a view for names and cities of residence of all employees who work for First Bank Corporation

create view FBCview as select e.employee\_name,e.city from employee e, works w where w.company\_name = 'First Bank Corporation' and e.employee\_name = w.employee\_name;

select \* from FBCview

