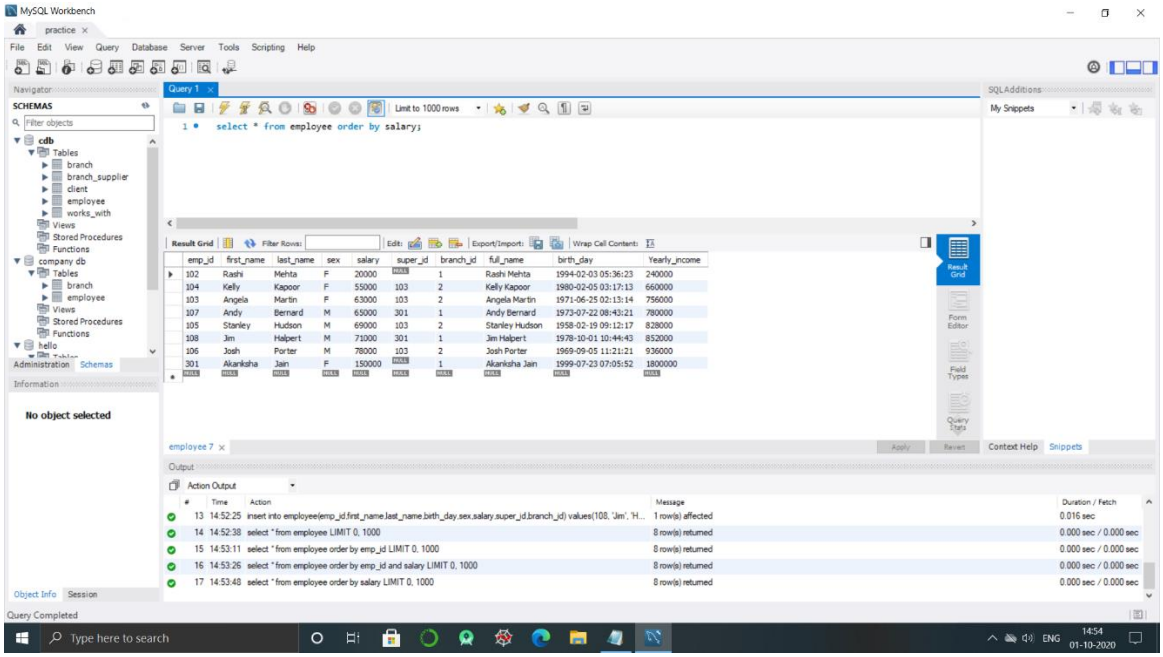
DBMS Assignment 4

1. **Order By** Clause

Query : select * from employee order by salary ;

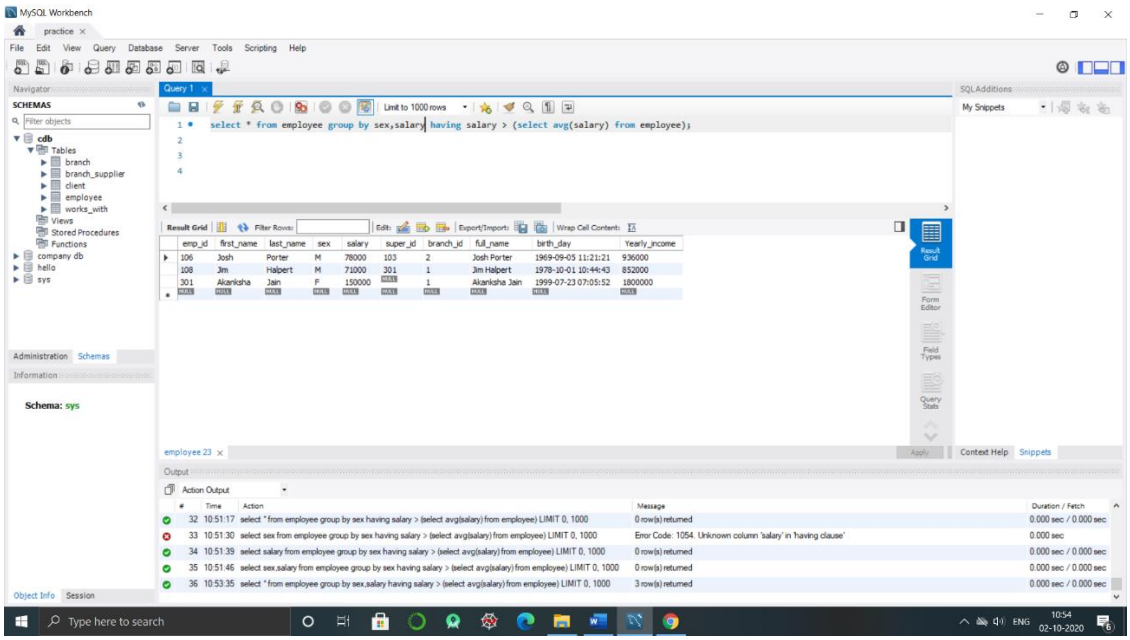
Output : Details of employees ordered by salary.



2. **Group By and Having** :

Query : select * from employee group by sex,salary having salary > (select avg(salary) from employee) ;

Output : Details of employees grouped by sex and salaries having salary greater than the average.

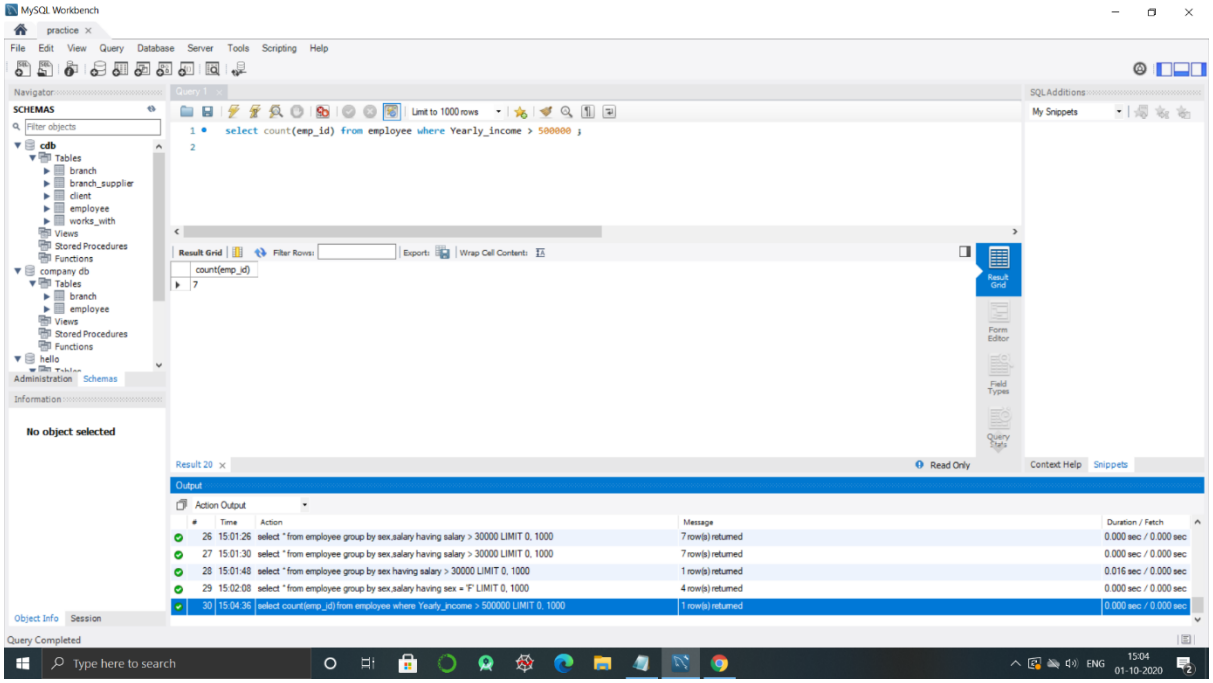


3. Aggregate Functions :

A . Count :

Query : select count(emp_id) from employee where Yearly_income > 500000;

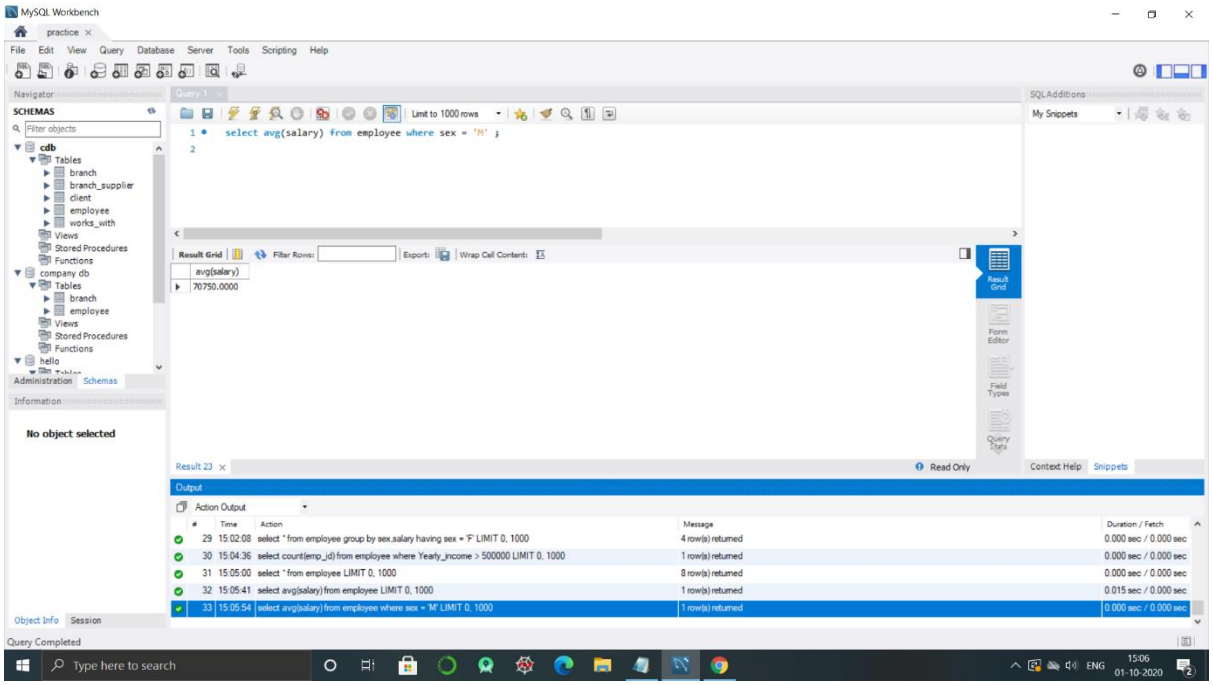
Output : number of employees whose salary is greater than 500000



B . Average :

Query : select avg(salary) from employee where sex = ‘F’ ;

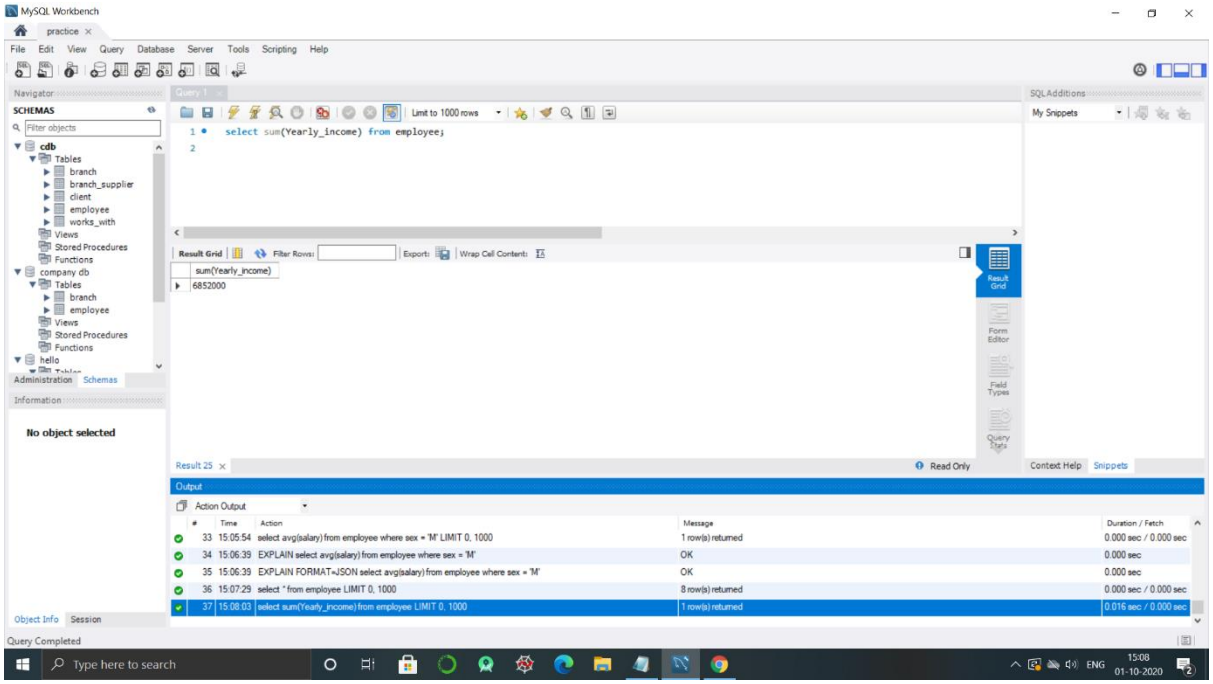
Output : average salary of female employees



C . Sum :

Query : select sum(Yearly_income) from employee;

Output : Total money spent by company in giving salaries to employees.

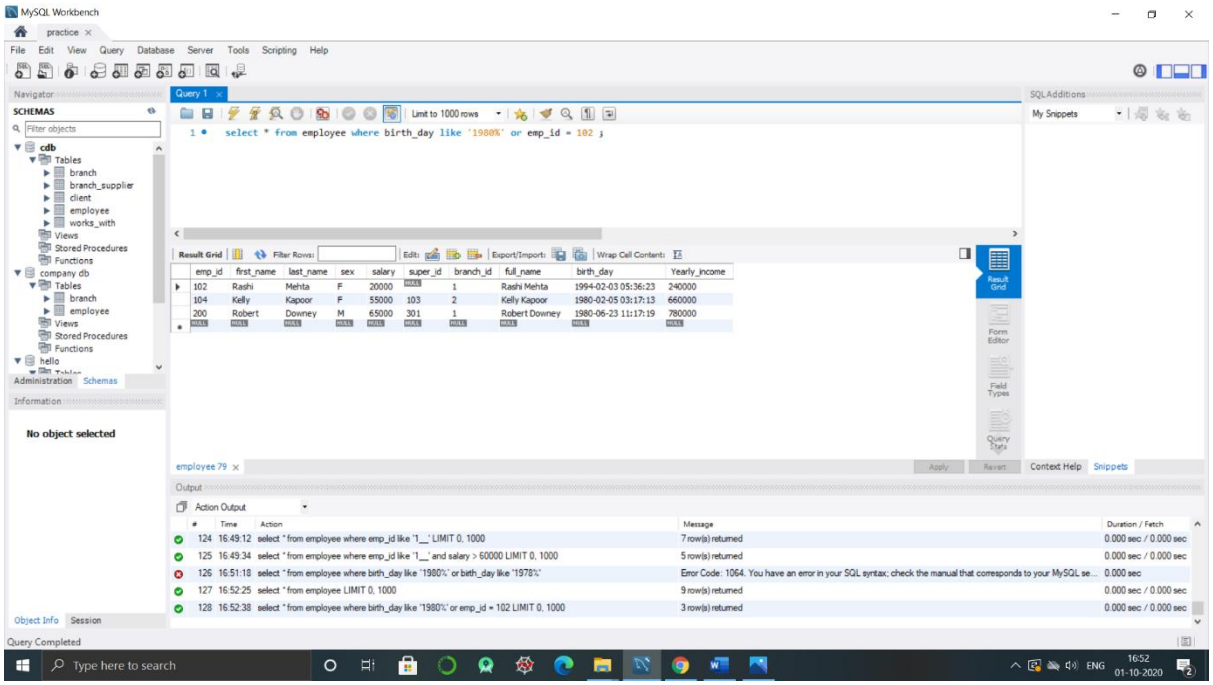


4. Logical operators especially with LIKE :

A . % operator :

Query : select * from employee where birth_day like '1980%' or emp_id = 102 ;

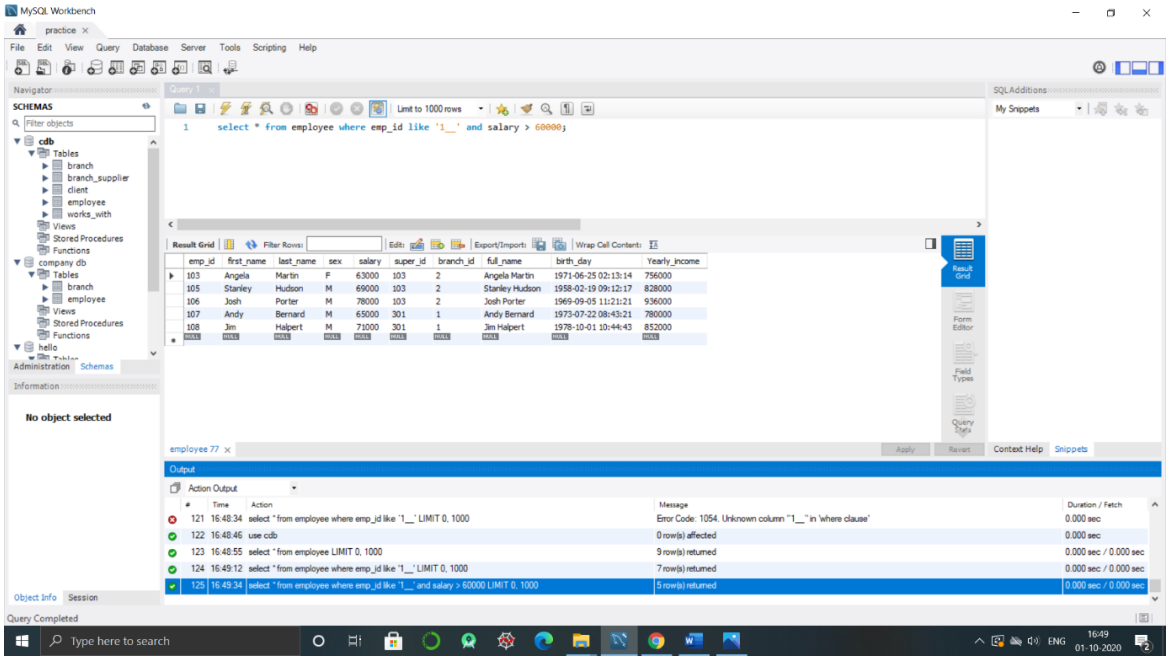
Output : Details of employees who were born in 1980 or having employee id 102.



B . '_' operator :

Query : select * from employee where emp_id like '1__' and salary > 60000 ;

Output : Details of employees whose employee id starts with 1.

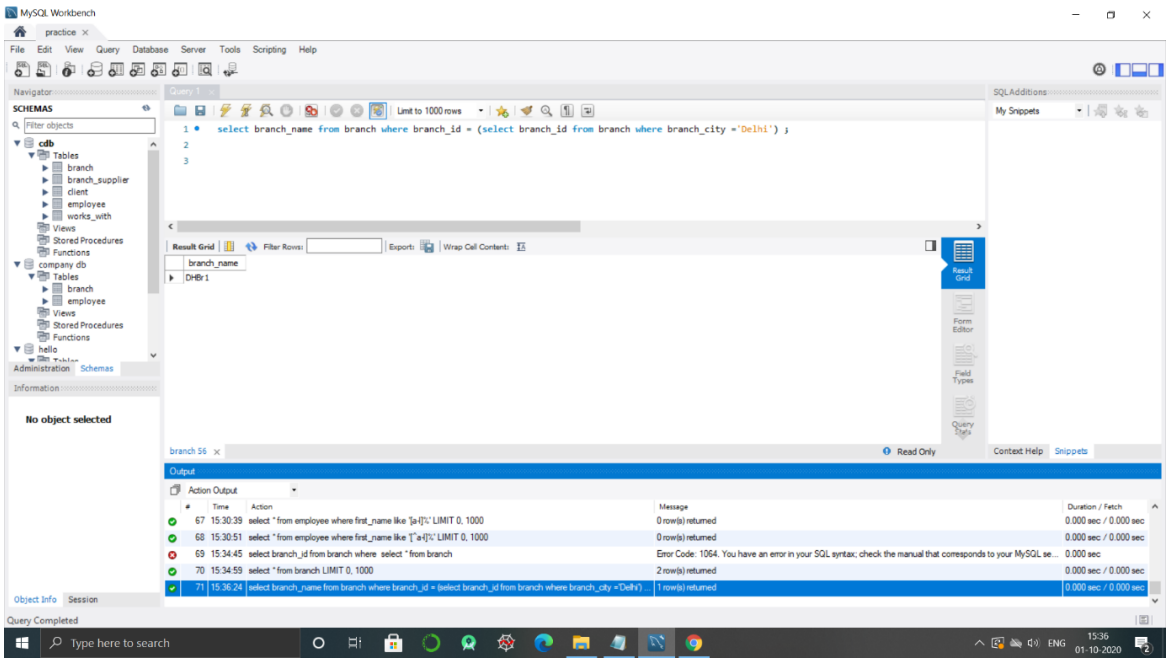


5. Nested Queries :

5.1. Simple Subquery :

Query : select branch_name from branch where branch_id = (select branch_id from branch where branch_city = 'Delhi ';

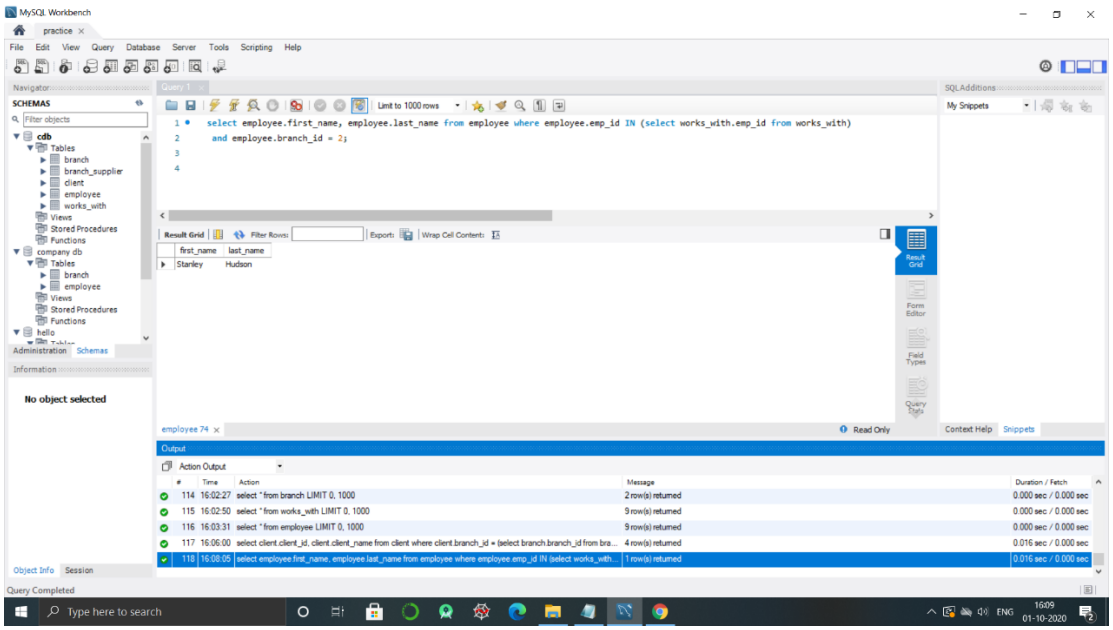
Output : branch_name of the branch located in Delhi using branch_id.



5.2. Simple Subquery :

Query : select employee.first_name , employee.last_name from employee where employee.emp_id in (select works_with.emp_id from works_with) and employee.branch_id = 2 ;

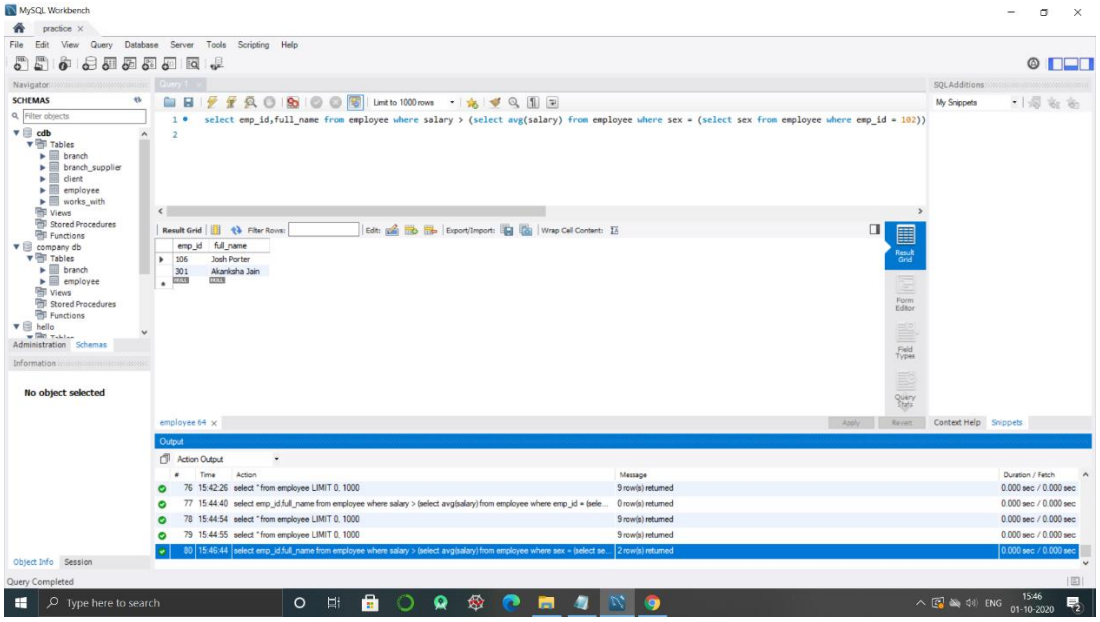
Output : Names of employees who works with clients handled by branch 2.



5.3. Multiple Subqueries :

Query : select emp_id,full_name from employee where salary > (select avg(salary) from employee where sex = (select sex from employee where emp_id = 102));

Output : Details of employees whose salaries are greater than the average salary of employees having same gender as that of employee with employee id 102.



5.4. Multiple Subqueries :

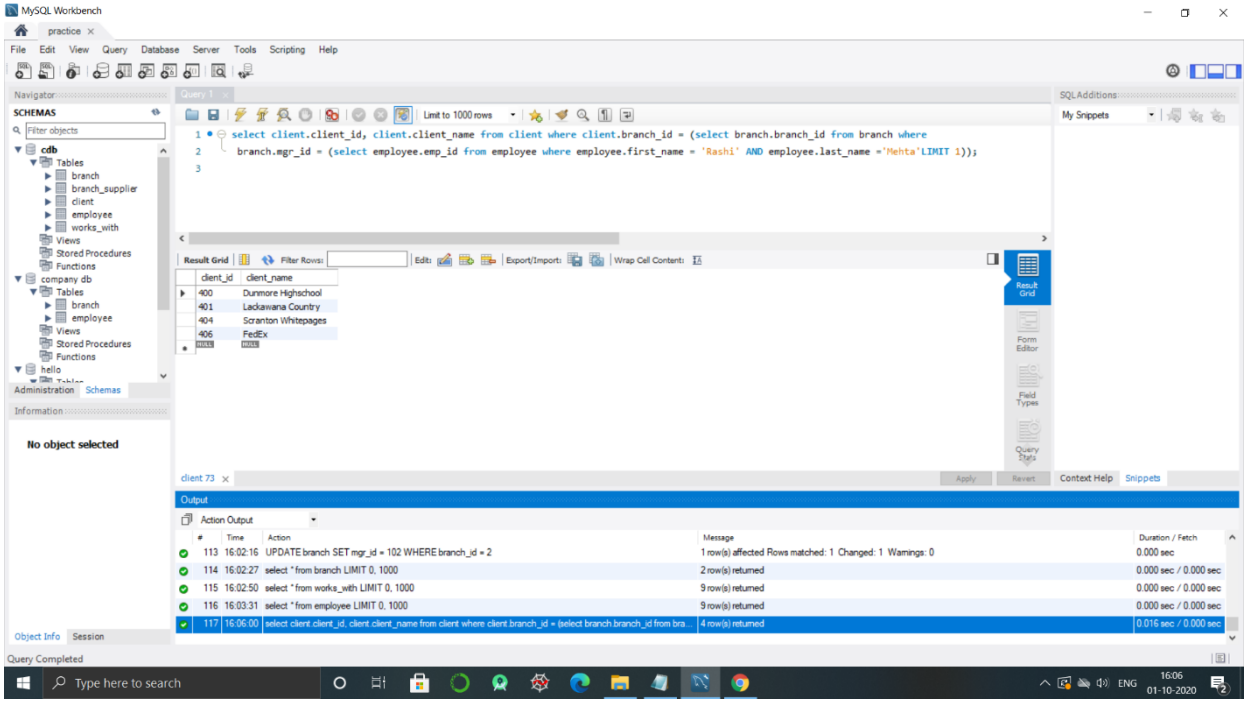
Query : select client.client_id, client.client_name from client where client.branch_id =

(select branch.branch_id from branch where branch.mgr_id = (select employee.emp_id

from employee where employee.first_name = 'Rashi' and employee.last_name ='Mehta'

LIMIT 1));

Output : all clients who are handled by the branch that Rashi Mehta manages.



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