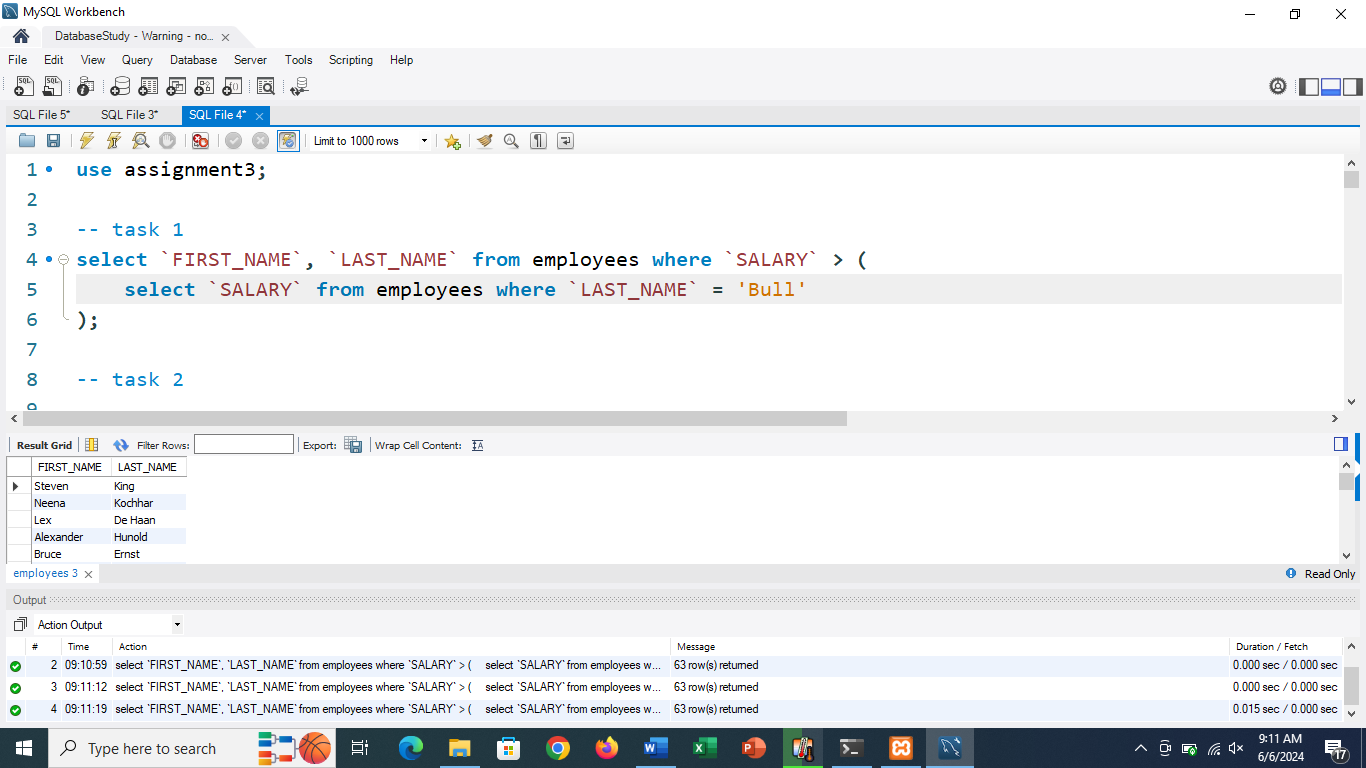
use assignment3;

-- task 1

select `FIRST\_NAME`, `LAST\_NAME` from employees where `SALARY` > (

    select `SALARY` from employees where `LAST\_NAME` = 'Bull'

);

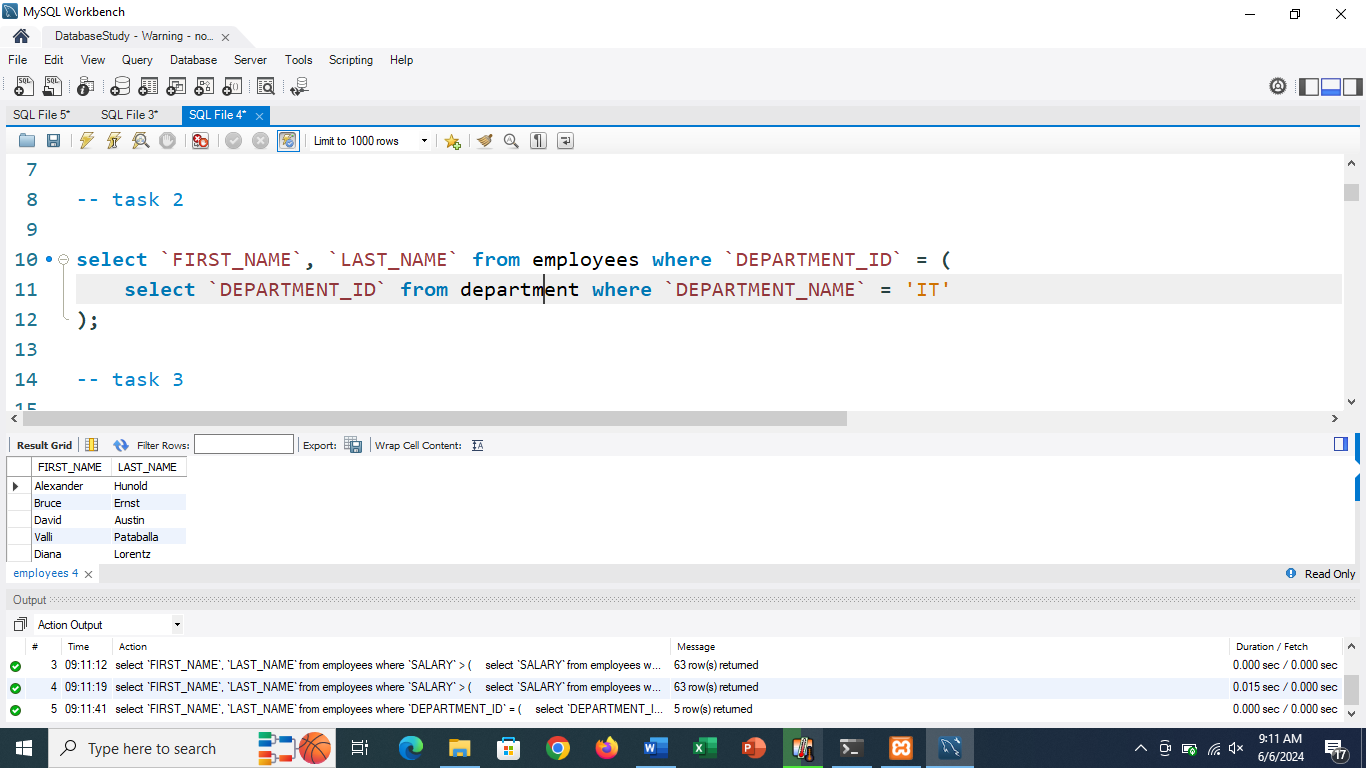


-- task 2

select `FIRST\_NAME`, `LAST\_NAME` from employees where `DEPARTMENT\_ID` = (

    select `DEPARTMENT\_ID` from department where `DEPARTMENT\_NAME` = 'IT'

);



-- task 3

select `FIRST\_NAME`, `LAST\_NAME` from employees where `DEPARTMENT\_ID` IN (

    select `DEPARTMENT\_ID` from department where `DEPARTMENT\_ID` in (

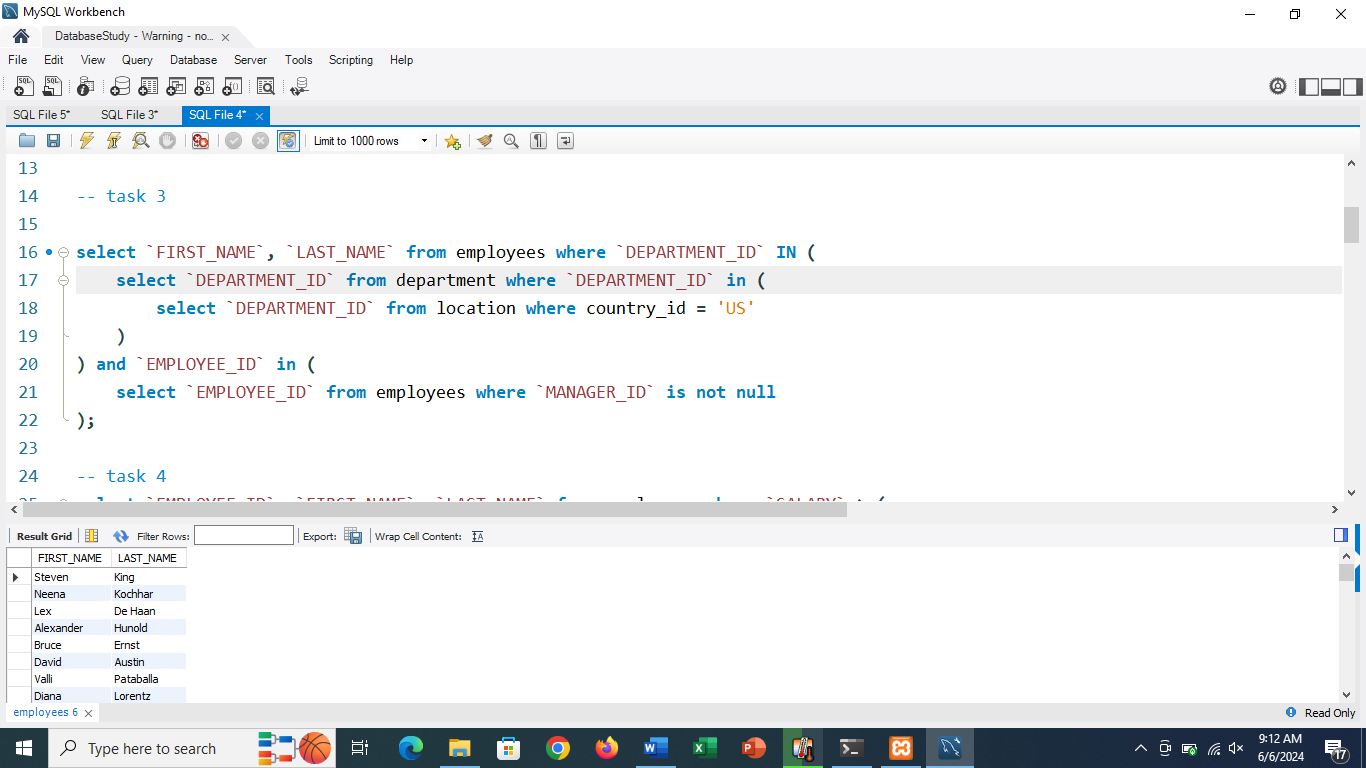
        select `DEPARTMENT\_ID` from location where country\_id = 'US'

    )

) and `EMPLOYEE\_ID` in (

    select `EMPLOYEE\_ID` from employees where `MANAGER\_ID` is not null

);

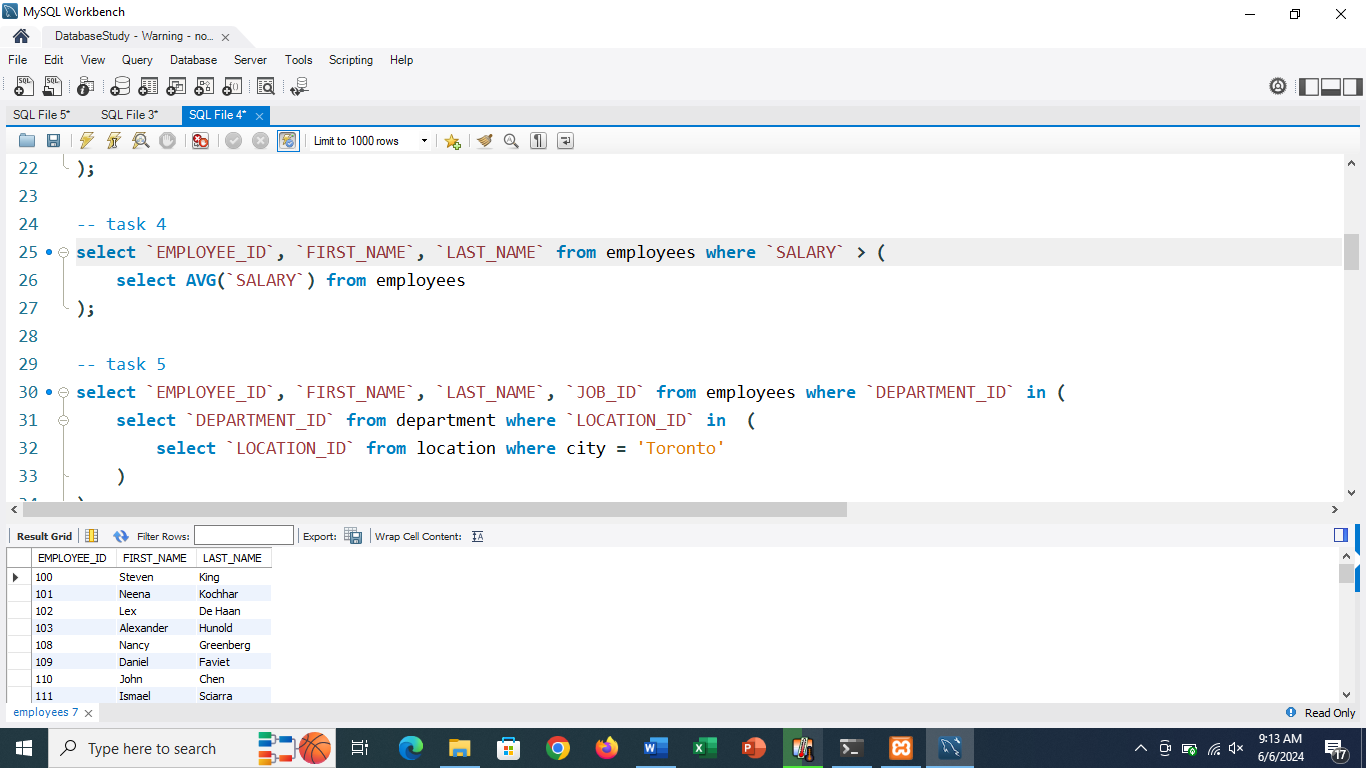


-- task 4

select `EMPLOYEE\_ID`, `FIRST\_NAME`, `LAST\_NAME` from employees where `SALARY` > (

    select AVG(`SALARY`) from employees

);



-- task 5

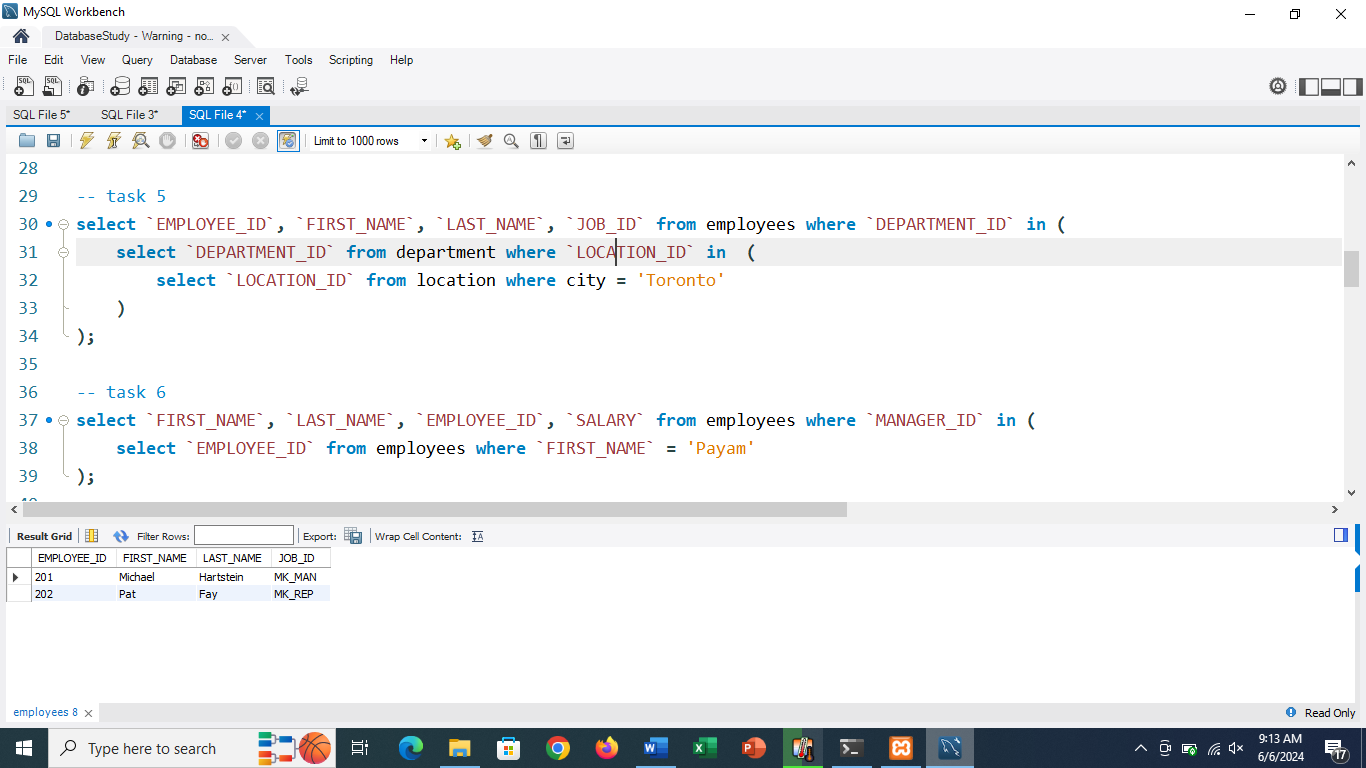
select `EMPLOYEE\_ID`, `FIRST\_NAME`, `LAST\_NAME`, `JOB\_ID` from employees where `DEPARTMENT\_ID` in (

    select `DEPARTMENT\_ID` from department where `LOCATION\_ID` in  (

        select `LOCATION\_ID` from location where city = 'Toronto'

    )

);

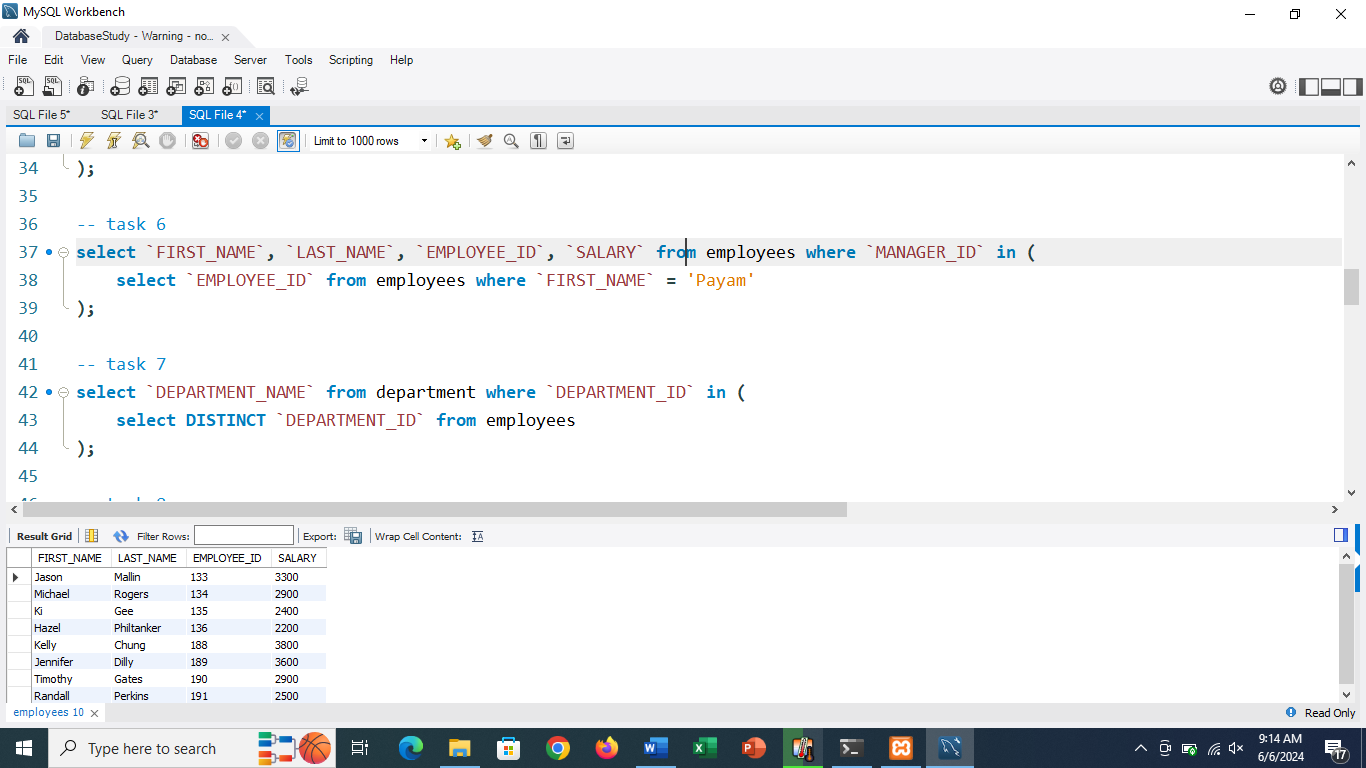


-- task 6

select `FIRST\_NAME`, `LAST\_NAME`, `EMPLOYEE\_ID`, `SALARY` from employees where `MANAGER\_ID` in (

    select `EMPLOYEE\_ID` from employees where `FIRST\_NAME` = 'Payam'

);

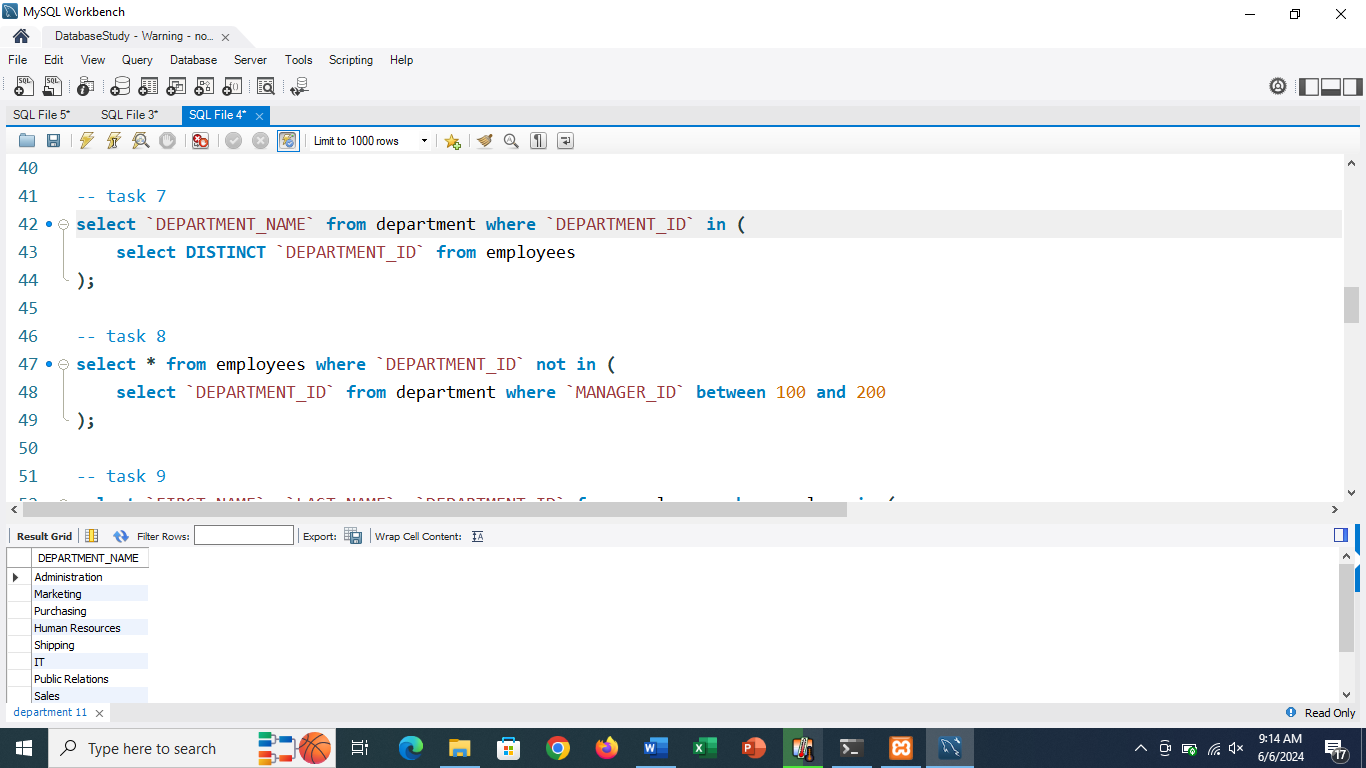


-- task 7

select `DEPARTMENT\_NAME` from department where `DEPARTMENT\_ID` in (

    select DISTINCT `DEPARTMENT\_ID` from employees

);

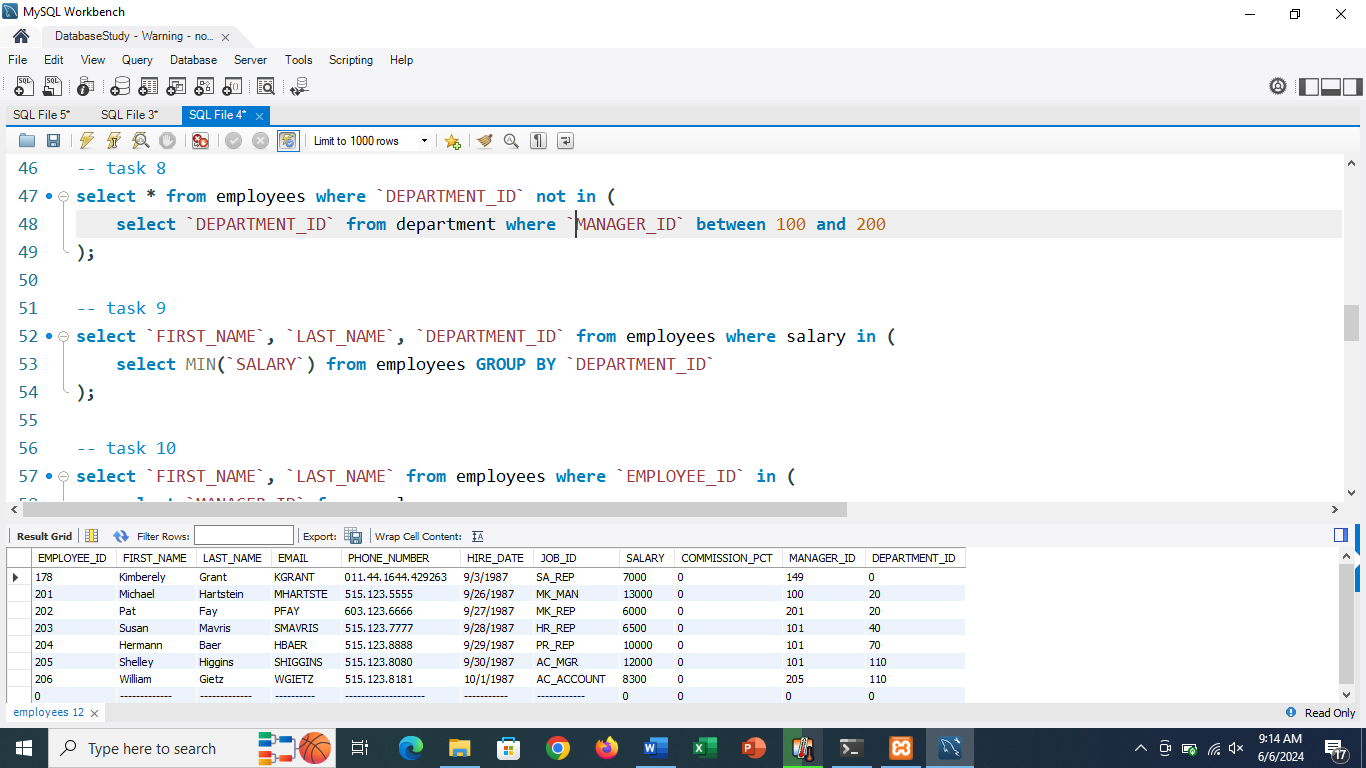


-- task 8

select \* from employees where `DEPARTMENT\_ID` not in (

    select `DEPARTMENT\_ID` from department where `MANAGER\_ID` between 100 and 200

);

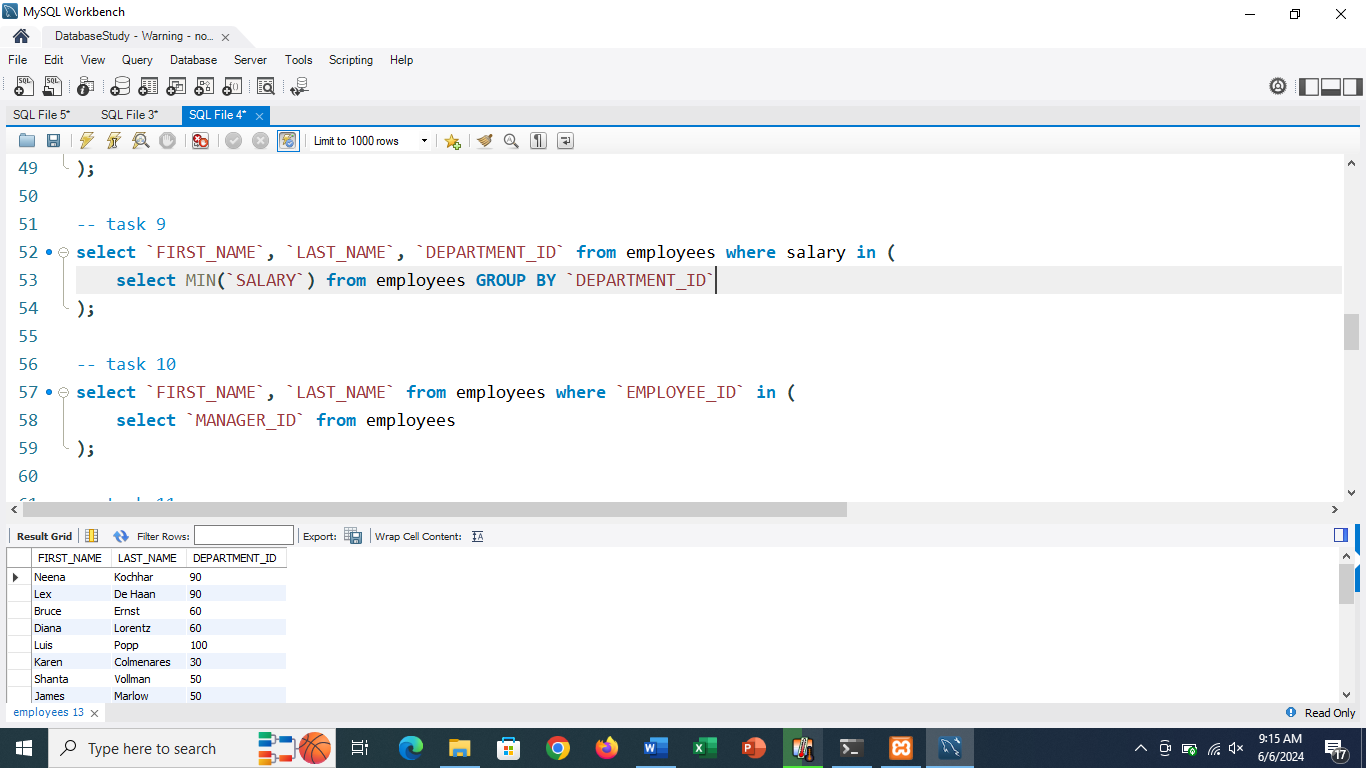


-- task 9

select `FIRST\_NAME`, `LAST\_NAME`, `DEPARTMENT\_ID` from employees where salary in (

    select MIN(`SALARY`) from employees GROUP BY `DEPARTMENT\_ID`

);

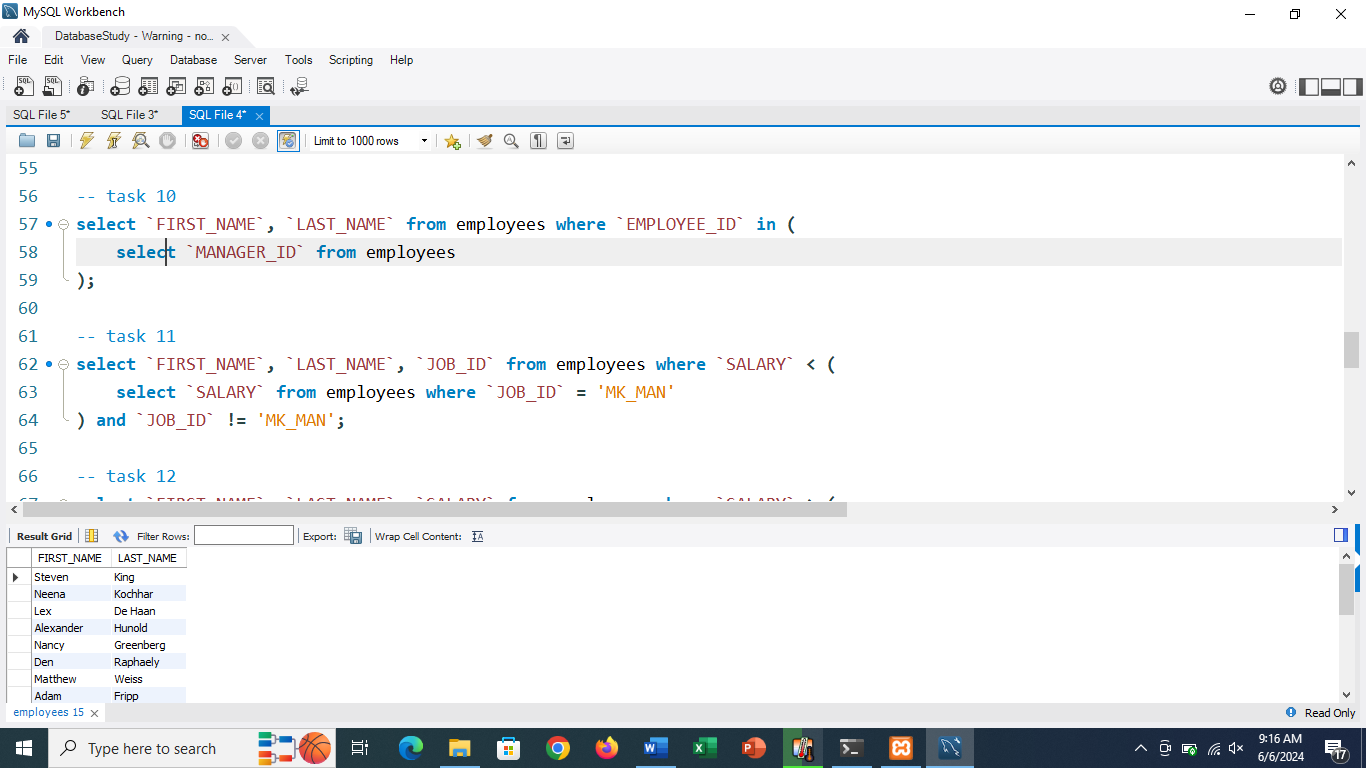


-- task 10

select `FIRST\_NAME`, `LAST\_NAME` from employees where `EMPLOYEE\_ID` in (

    select `MANAGER\_ID` from employees

);

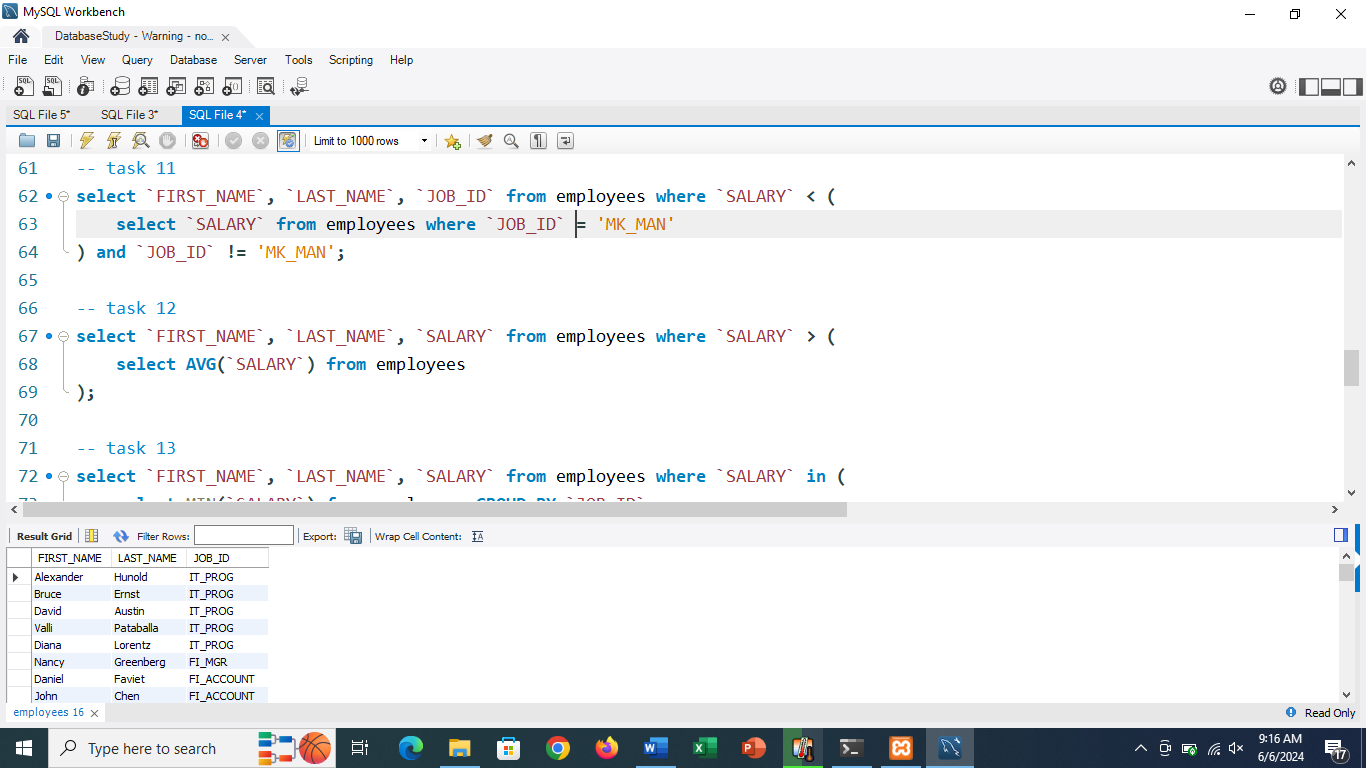


-- task 11

select `FIRST\_NAME`, `LAST\_NAME`, `JOB\_ID` from employees where `SALARY` < (

    select `SALARY` from employees where `JOB\_ID` = 'MK\_MAN'

) and `JOB\_ID` != 'MK\_MAN';

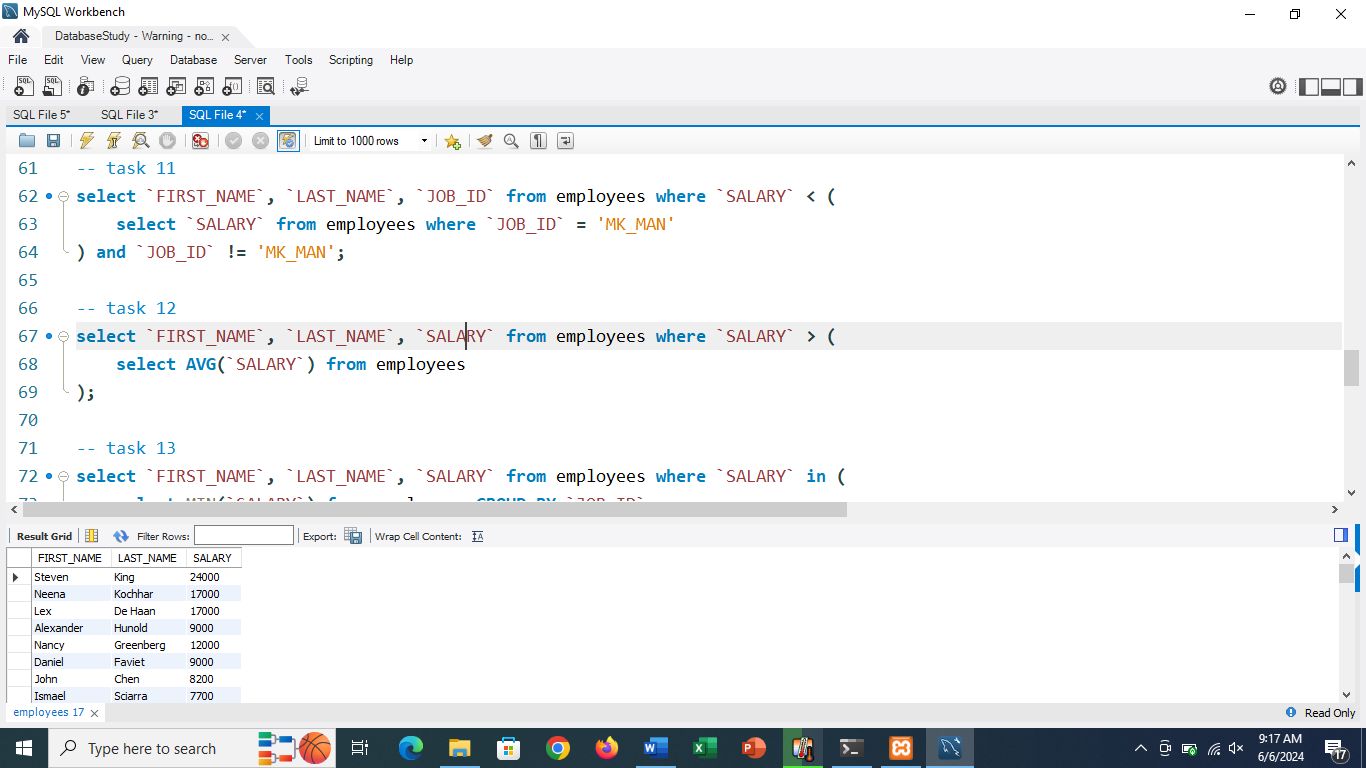


-- task 12

select `FIRST\_NAME`, `LAST\_NAME`, `SALARY` from employees where `SALARY` > (

    select AVG(`SALARY`) from employees

);

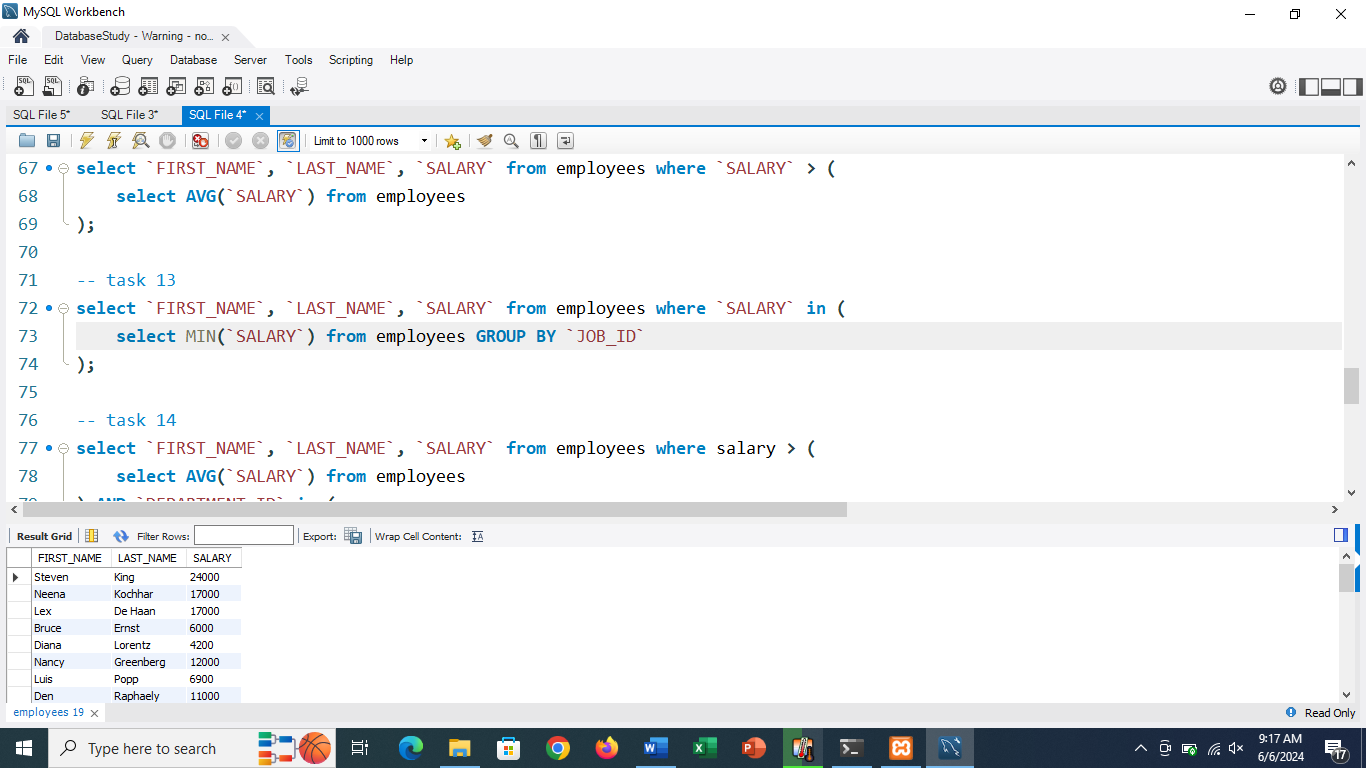


-- task 13

select `FIRST\_NAME`, `LAST\_NAME`, `SALARY` from employees where `SALARY` in (

    select MIN(`SALARY`) from employees GROUP BY `JOB\_ID`

);



-- task 14

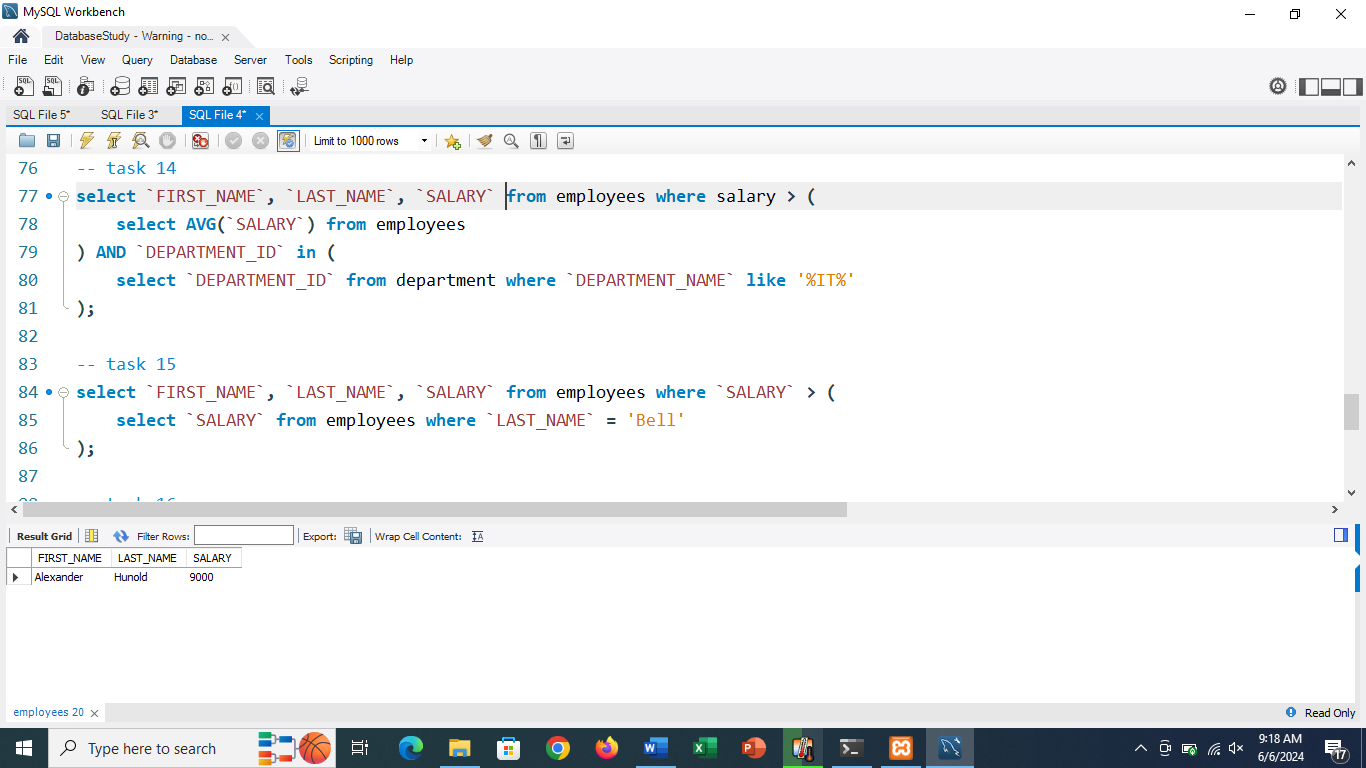
select `FIRST\_NAME`, `LAST\_NAME`, `SALARY` from employees where salary > (

    select AVG(`SALARY`) from employees

) AND `DEPARTMENT\_ID` in (

    select `DEPARTMENT\_ID` from department where `DEPARTMENT\_NAME` like '%IT%'

);

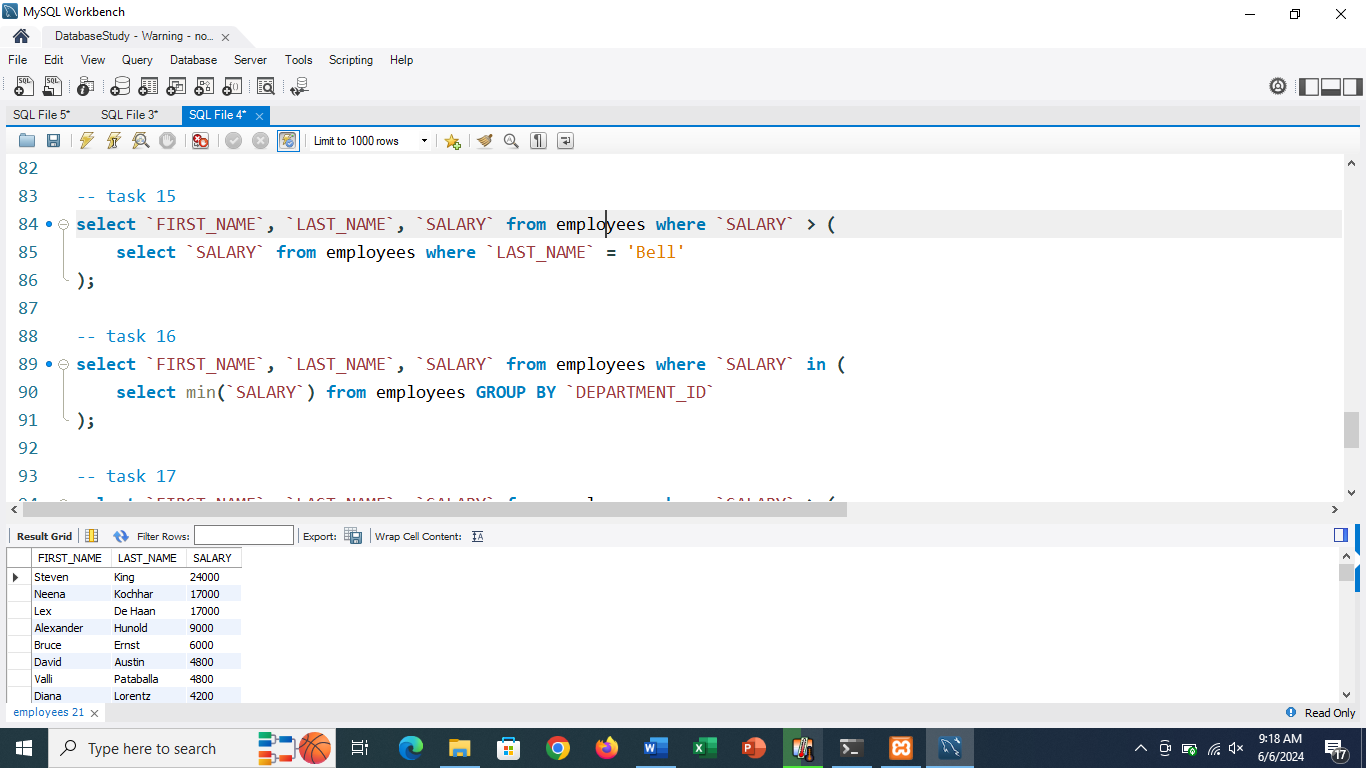


-- task 15

select `FIRST\_NAME`, `LAST\_NAME`, `SALARY` from employees where `SALARY` > (

    select `SALARY` from employees where `LAST\_NAME` = 'Bell'

);

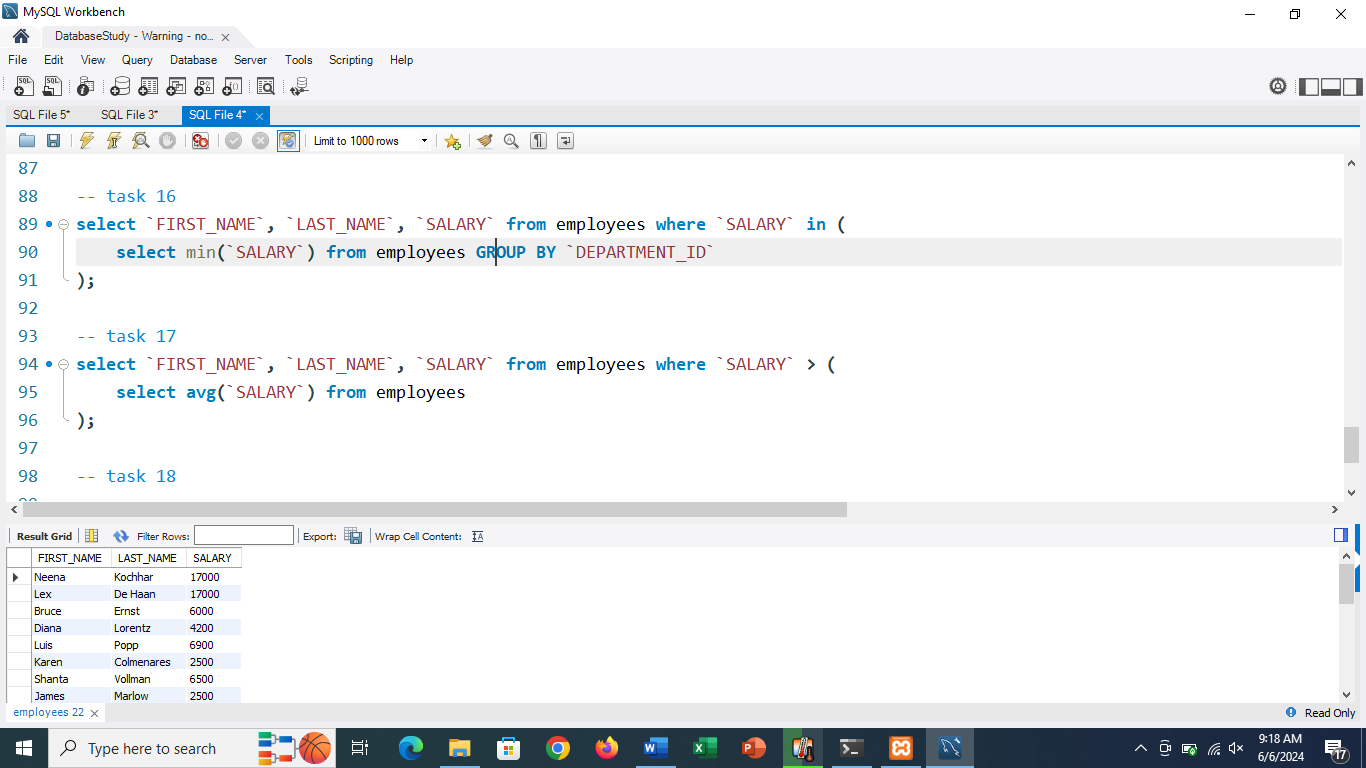


-- task 16

select `FIRST\_NAME`, `LAST\_NAME`, `SALARY` from employees where `SALARY` in (

    select min(`SALARY`) from employees GROUP BY `DEPARTMENT\_ID`

);

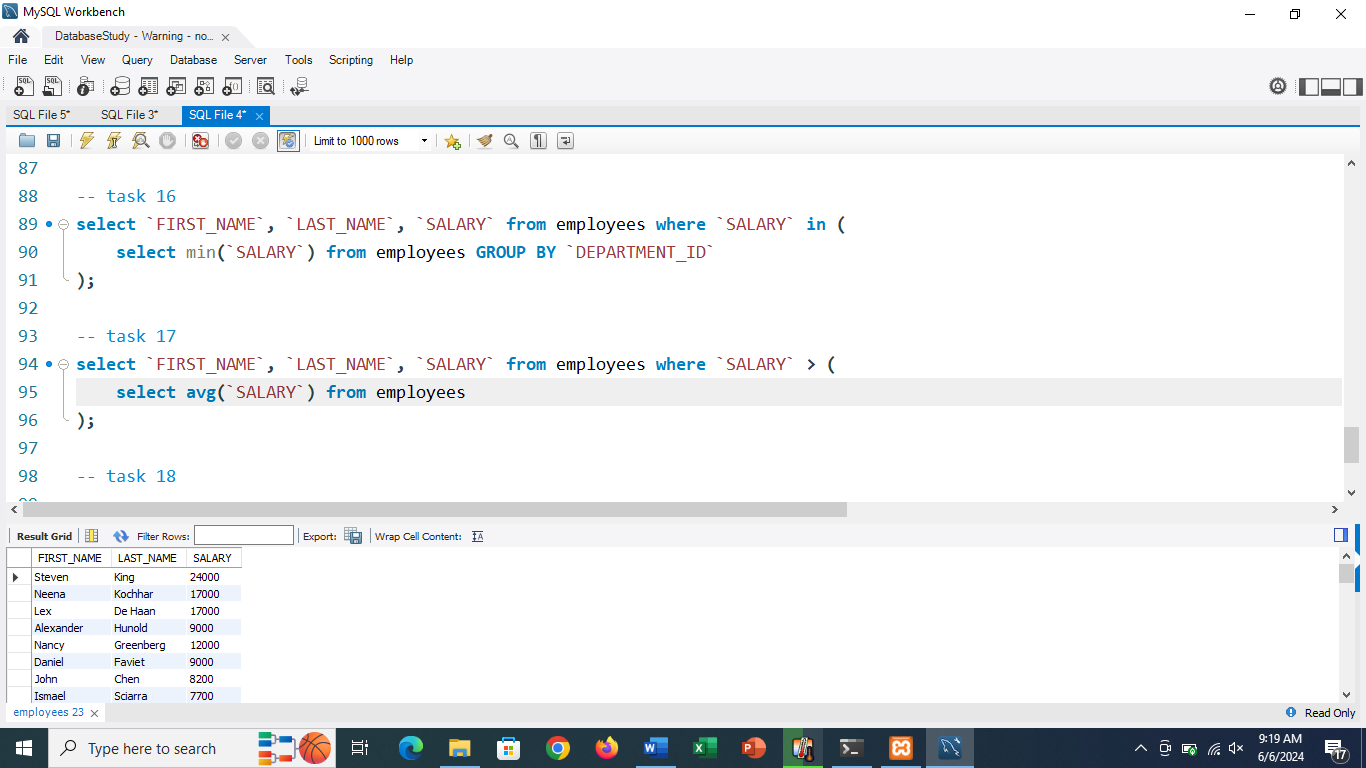


-- task 17

select `FIRST\_NAME`, `LAST\_NAME`, `SALARY` from employees where `SALARY` > (

    select avg(`SALARY`) from employees

);



-- task 18

select `SALARY` from (

    select DISTINCT `SALARY` from `employees` ORDER BY `SALARY` DESC LIMIT 3

) AS top\_salaries ORDER BY `SALARY` LIMIT 1;

