**Assignment-3**

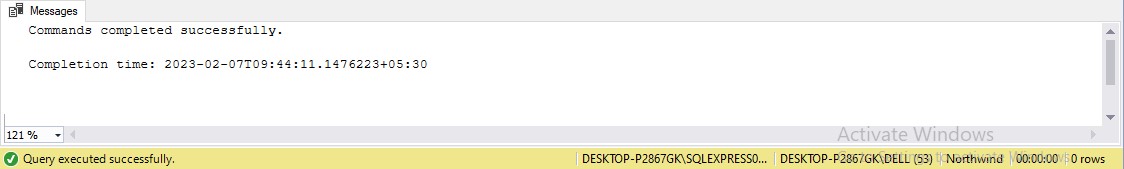
-- Create Tables

CREATE TABLE Department(

dept\_id int PRIMARY KEY NOT NULL,

dept\_name varchar(50) NOT NULL

);



CREATE TABLE Employee(

emp\_id int PRIMARY KEY NOT NULL,

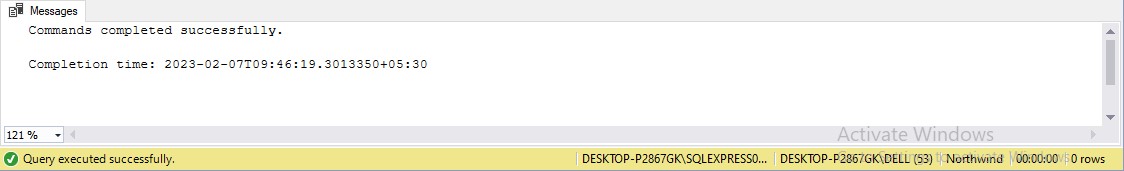
dept\_id int FOREIGN KEY REFERENCES Department(dept\_id),

mngr\_id int NOT NULL,

emp\_name varchar(50) NOT NULL,

salary int NOT NULL

);



--Insert Data

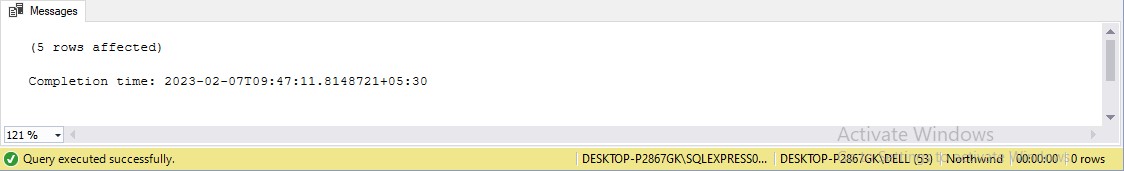
INSERT INTO Department VALUES(101,'Managment'),

(102,'Design'),

(103,'HR'),

(104,'Development'),

(105,'QA');



--Insert Data

INSERT INTO Employee VALUES(501,101,401,'Meet Patel',40000),

(502,102,402,'Suchi Mehta',450000),

(503,101,402,'Mayur Shah',20000),

(504,102,403,'Tirth Patel',40000),

(505,103,404,'Ansh Desai',65000),

(506,102,405,'Foram Sharma',60000),

(507,105,407,'Aarvi Birla',37000),

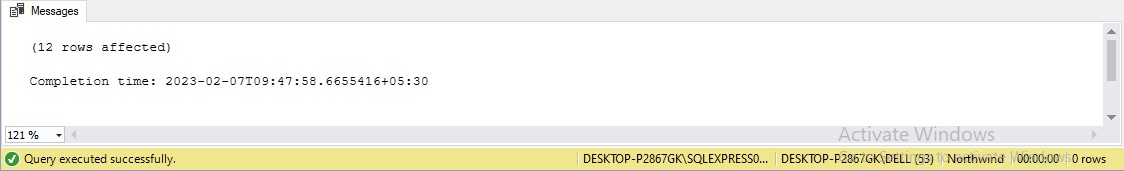
(508,105,407,'Ruhi Mehta',35000),

(509,102,403,'Bhautik Birla',55000),

(510,101,407,'Mansi Desai',50000),

(511,104,406,'Abhi Sharma',65000),

(512,104,404,'Ved Patel',62000);



-- 1. Write a SQL query to find Employees who have the biggest salary in their Department.

SELECT e.emp\_name, e.salary

FROM Employee e

JOIN Department d ON d.dept\_id = e.dept\_id

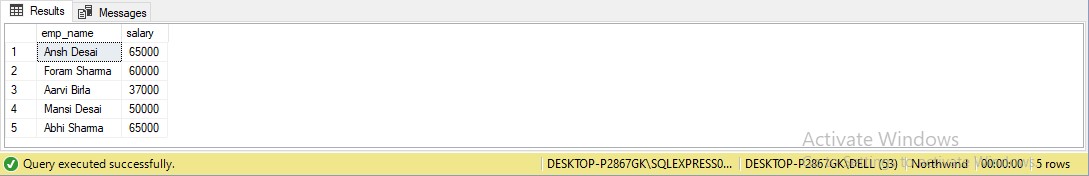
WHERE e.salary IN (

SELECT MAX(e.salary)

FROM Employee e

GROUP BY d.dept\_id

HAVING e.dept\_id = d.dept\_id);



-- 2. Write a SQL query to find Departments that have less than 3 people in it.

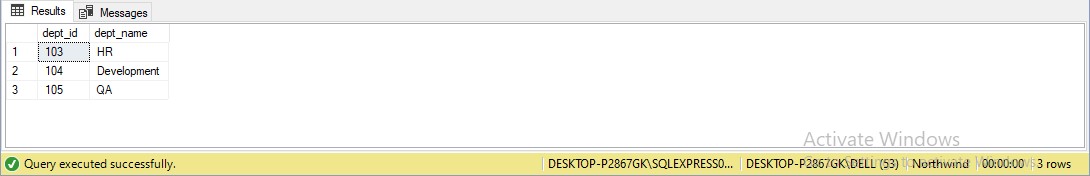
SELECT d.dept\_id ,d.dept\_name

FROM Department d

LEFT JOIN Employee e ON d.dept\_id = e.dept\_id

GROUP BY d.dept\_name, d.dept\_id

HAVING COUNT(\*) < 3;



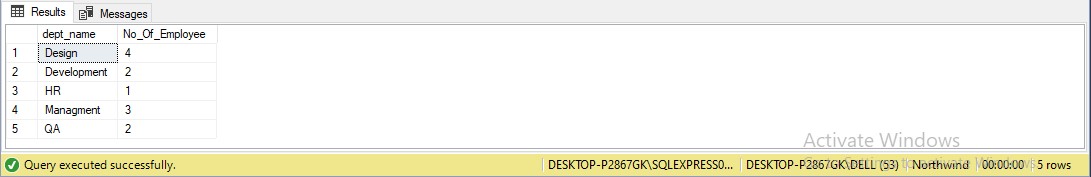
-- 3. Write a SQL query to find All Department along with the number of people there.

SELECT d.dept\_name, COUNT(e.emp\_name) AS No\_Of\_Employee

FROM Department d

LEFT JOIN Employee e ON d.dept\_id = e.dept\_id

GROUP BY d.dept\_name;



-- 4. Write a SQL query to find All Department along with the total salary there.

SELECT d.dept\_name, SUM(salary) AS Total\_Salary

FROM Department d

LEFT JOIN Employee e ON d.dept\_id = e.dept\_id

GROUP BY d.dept\_name;

