**Assignment 3**

**Creating Tables**

**Query:**

/\*\* Creating Tables \*\*/

/\* Department table \*/

CREATE TABLE Department(

dept\_id INT PRIMARY KEY,

dept\_name VARCHAR(30) NOT NULL

)

/\* Employee table \*/

CREATE TABLE Employee(

emp\_id INT PRIMARY KEY,

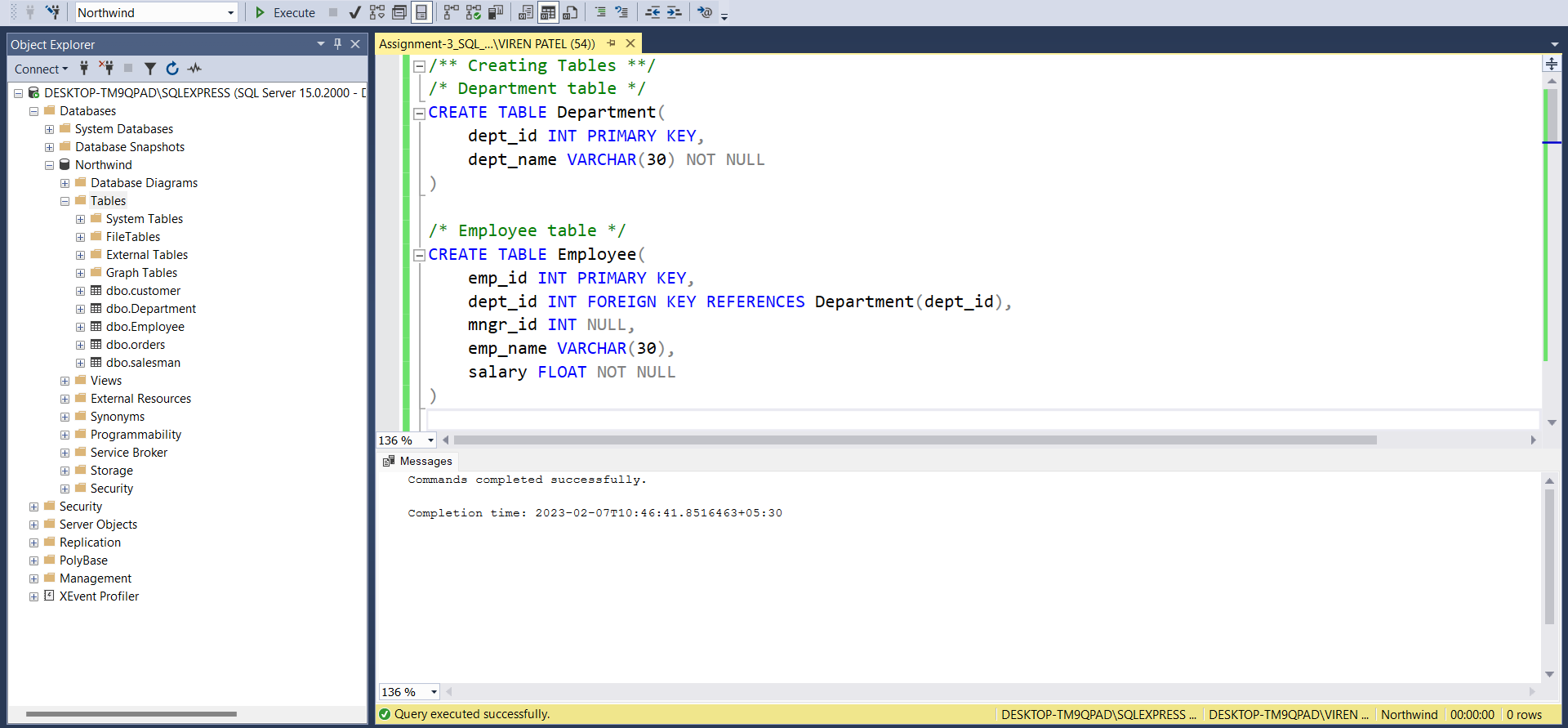
dept\_id INT FOREIGN KEY REFERENCES Department(dept\_id),

mngr\_id INT NULL,

emp\_name VARCHAR(30),

salary FLOAT NOT NULL

)



**Inserting data in to tables**

**Query:**

/\*\* Inserting data \*\*/

/\* Insert into Department \*/

INSERT INTO Department (dept\_id, dept\_name)

VALUES (301, 'Development'), (302, 'Human Resources'), (303, 'Network'), (304, 'Quality Assurance'), (305, 'Design'), (306, 'Finance')

/\* Insert into Employee \*/

INSERT INTO Employee (emp\_id, dept\_id, mngr\_id, emp\_name, salary)

VALUES (101, 302, 3, 'Kushal Mehta', 35000),

(102, 302, 3, 'Purva Singh', 30000),

(103, 301, 4, 'Viren Laniya', 40000),

(104, 301, NULL, 'Amir Rav', 50000),

(105, 301, 5, 'Dinkar Siddhu', 45000),

(106, 301, 4, 'Vishva Sharma', 43100.68),

(107, 303, NULL, 'Harry Gin', 30500.76),

(108, 303, 107, 'Aarav Thapar', 34500),

(109, 306, NULL, 'Prachi Patel', 36500),

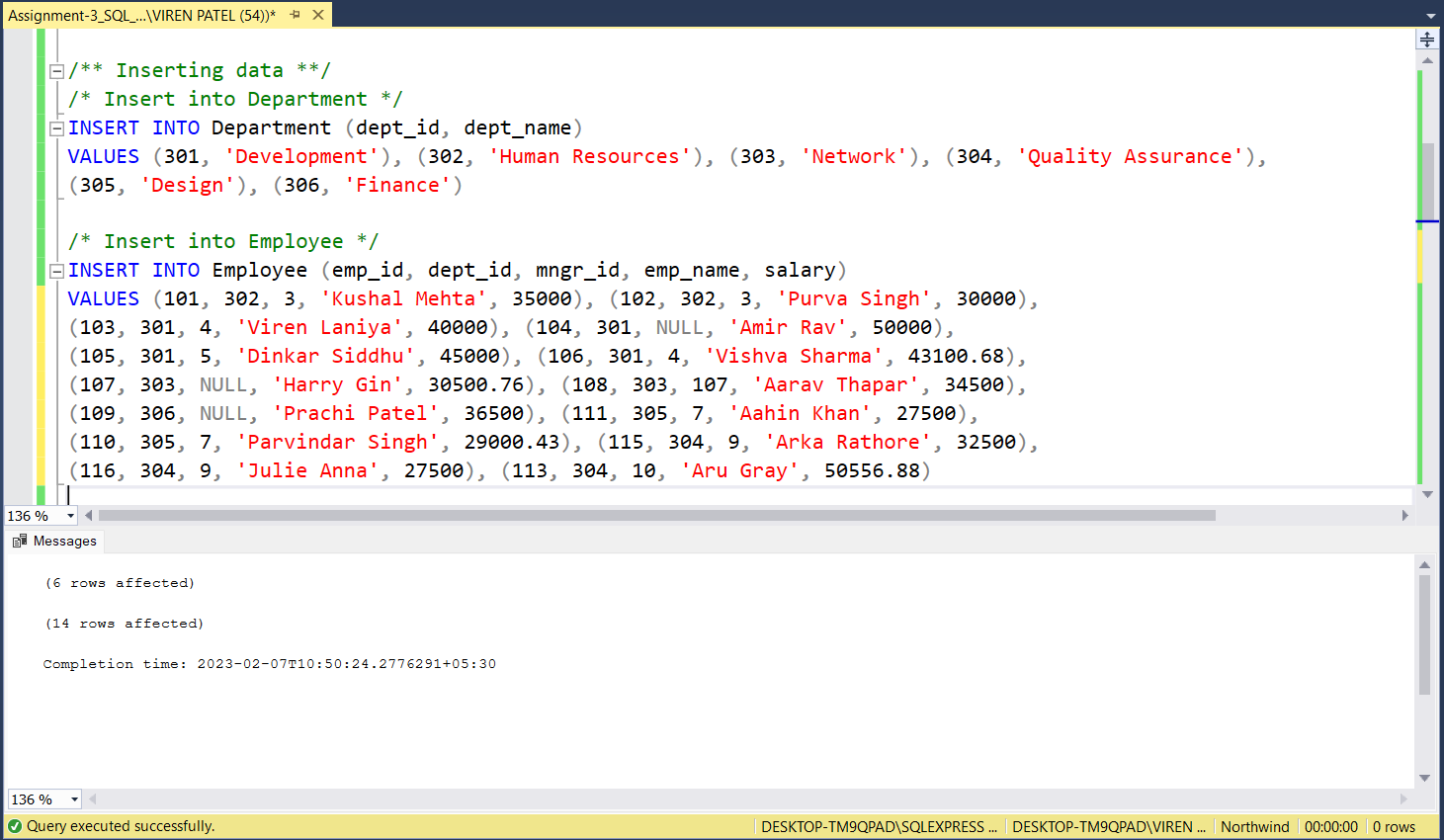
(111, 305, 7, 'Aahin Khan', 27500),

(110, 305, 7, 'Parvindar Singh', 29000.43),

(115, 304, 9, 'Arka Rathore', 32500),

(116, 304, 9, 'Julie Anna', 27500),

(113, 304, 10, 'Aru Gray', 50556.88)



1. **write a SQL query to find Employees who have the biggest salary in their department**

**Query:**

SELECT e.emp\_id, e.emp\_name, e.dept\_id, d.dept\_name, e.salary

FROM Employee e

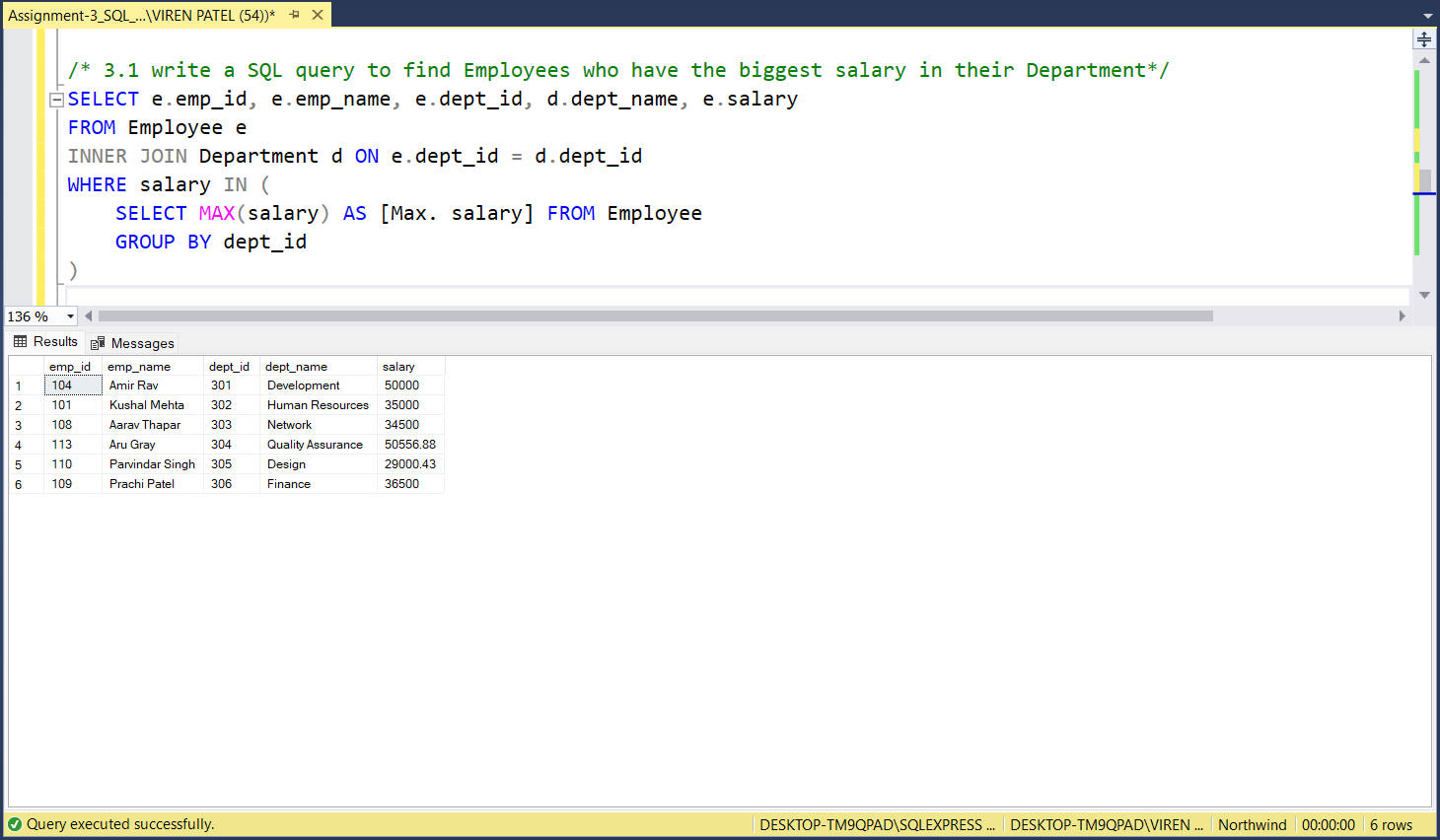
INNER JOIN Department d ON e.dept\_id = d.dept\_id

WHERE salary IN (

SELECT MAX(salary) AS [Max. salary] FROM Employee

GROUP BY dept\_id

)



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

**Query:**

SELECT empCount.dept\_id, d.dept\_name, empCount.emp\_count AS [Total Employees]

FROM (

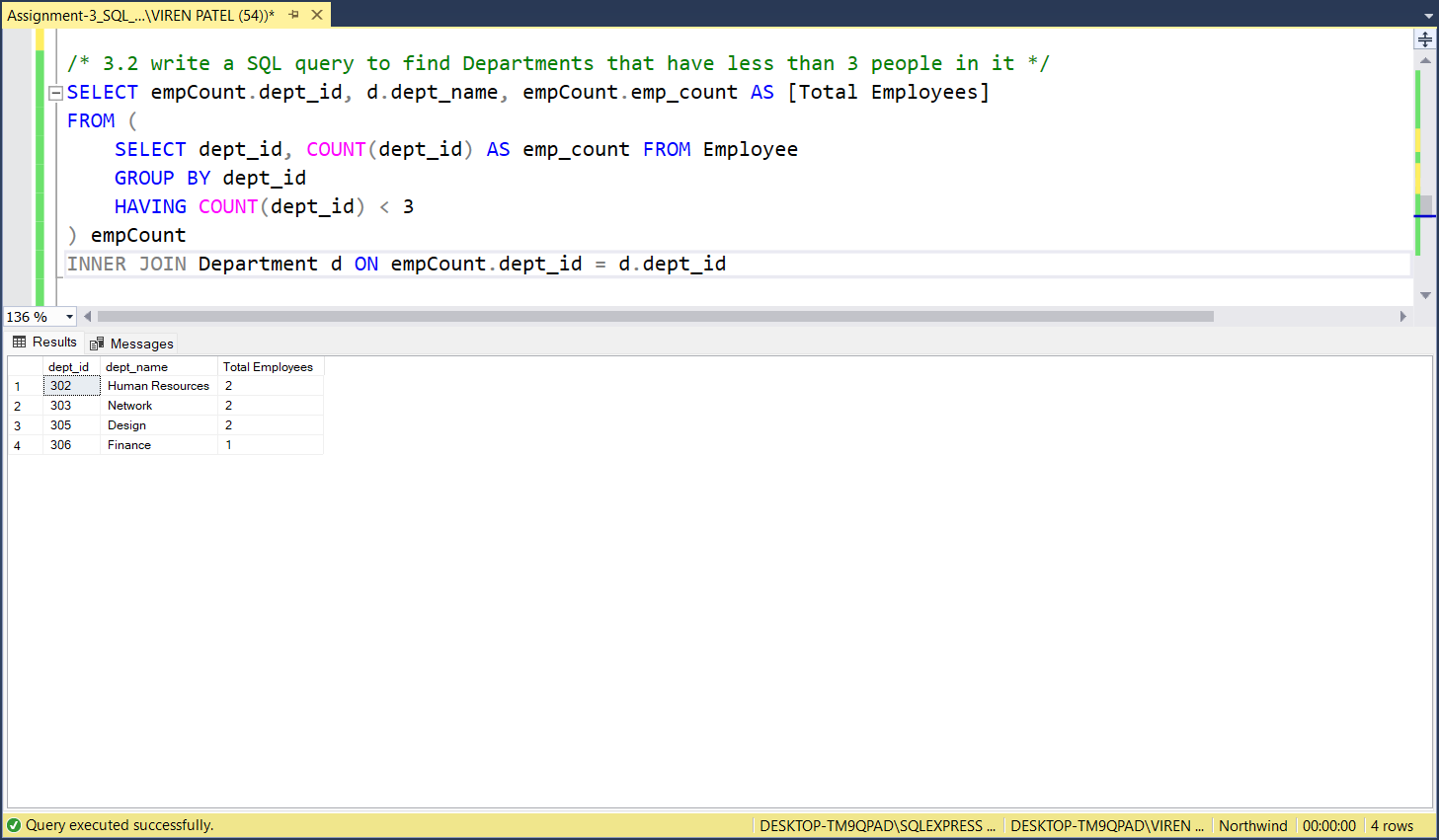
SELECT dept\_id, COUNT(dept\_id) AS emp\_count FROM Employee

GROUP BY dept\_id

HAVING COUNT(dept\_id) < 3

) empCount

INNER JOIN Department d ON empCount.dept\_id = d.dept\_id



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

**Query:**

SELECT empCount.dept\_id, d.dept\_name, empCount.emp\_count AS [Total Employees]

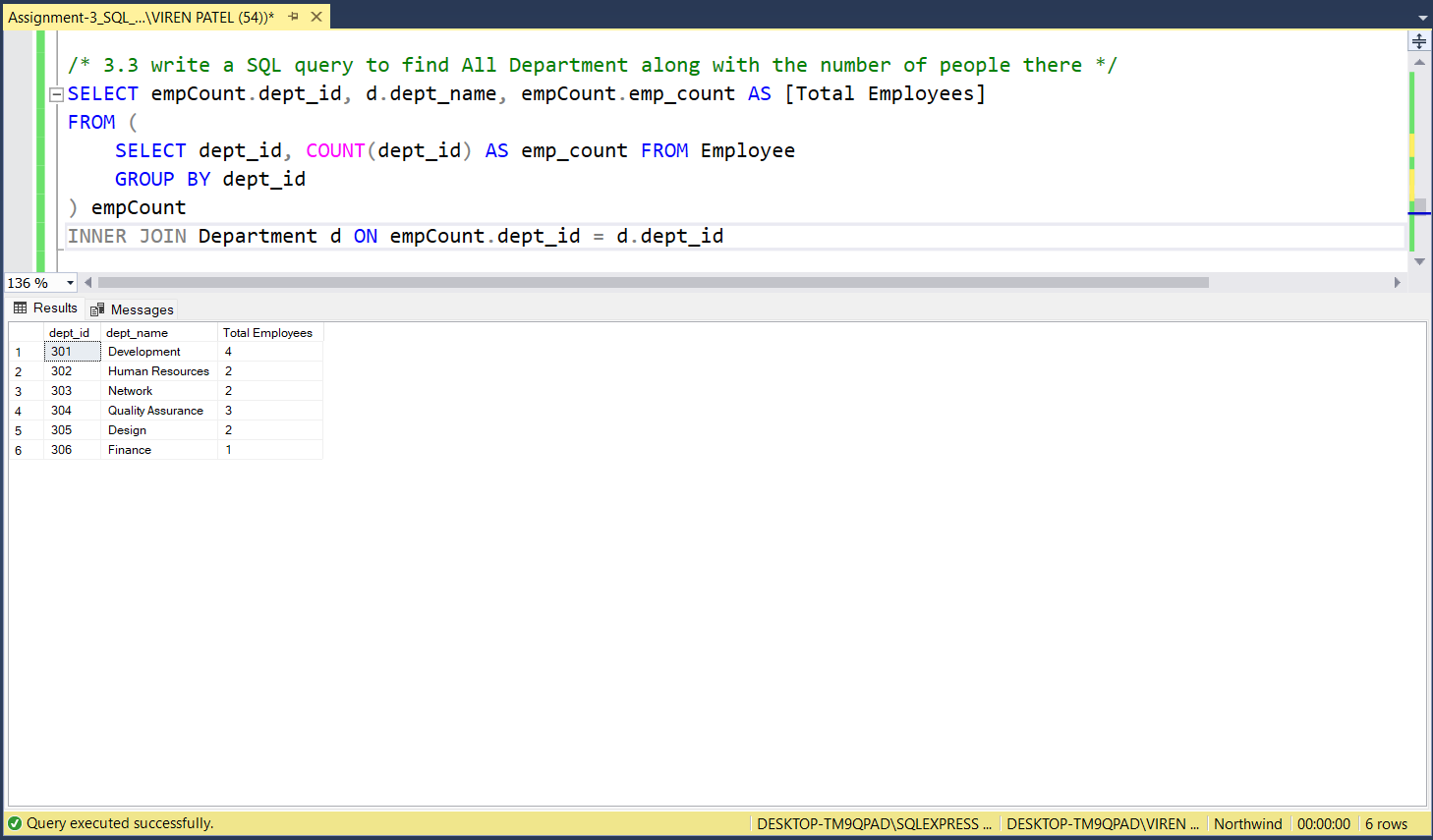
FROM (

SELECT dept\_id, COUNT(dept\_id) AS emp\_count FROM Employee

GROUP BY dept\_id

) empCount

INNER JOIN Department d ON empCount.dept\_id = d.dept\_id



1. **write a SQL query to find All Department along with the total salary there**

**Query:**

SELECT empCount.dept\_id, d.dept\_name, empCount.total\_salary AS [Total Salary]

FROM (

SELECT dept\_id, SUM(salary) AS total\_salary FROM Employee

GROUP BY dept\_id

) empCount

INNER JOIN Department d ON empCount.dept\_id = d.dept\_id

