**Assignment – 3**

* Create Database:

CREATE DATABASE emp\_dept\_db

* Create Table

1) Department Table

CREATE TABLE tblDepartment

(

dept\_id INT IDENTITY(500, 1) PRIMARY KEY,

dept\_name VARCHAR(30) NOT NULL

)

ALTER TABLE tblDepartment

ADD CONSTRAINT UQ\_tblDepartment\_dept\_name UNIQUE (dept\_name)

2) Employee Table

CREATE TABLE tblEmployee

(

emp\_id INT IDENTITY(100, 1) PRIMARY KEY,

dept\_id INT,

mngr\_id INT,

emp\_name VARCHAR(30) NOT NULL,

salary DECIMAL(10, 2) CONSTRAINT CHK\_tblEmployee\_salary CHECK(salary > 2000),

FOREIGN KEY(dept\_id) REFERENCES tblDepartment(dept\_id)

)

Queries

Q1) Write a SQL query to find Employees who have the biggest salary in their Department.

==>

SELECT emp.emp\_id, emp.emp\_name "Employee Name", emp.salary "Salary", dept.dept\_name "Department Name"

FROM tblEmployee emp JOIN tblDepartment dept

ON emp.dept\_id = dept.dept\_id

WHERE (emp.dept\_id+emp.salary) IN

(

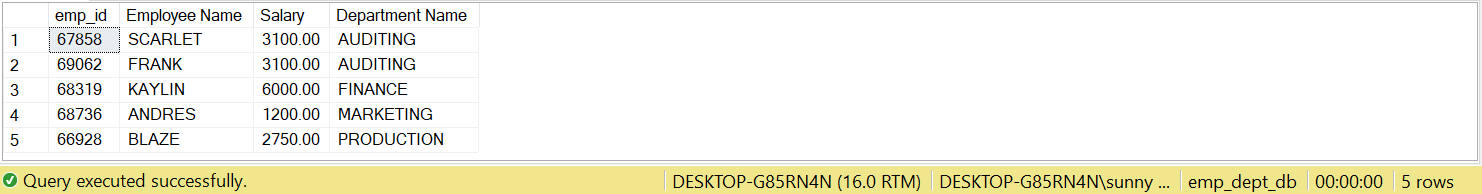
SELECT dept\_id+MAX(salary)

FROM tblEmployee

GROUP BY dept\_id

)

Output:



Q2) Write a SQL query to find Departments that have less than 3 people in it.

==>

SELECT emp.dept\_id, COUNT(emp.dept\_id) "Total Employee", dept.dept\_name “Department Name”

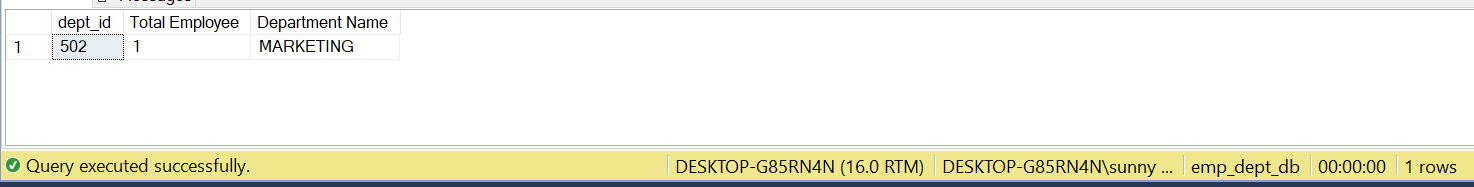
FROM tblEmployee emp JOIN tblDepartment dept

ON emp.dept\_id = dept.dept\_id

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

HAVING COUNT(emp.dept\_id) < 3

Output:



Q3) Write a SQL query to find All Department along with the number of people there.

==>

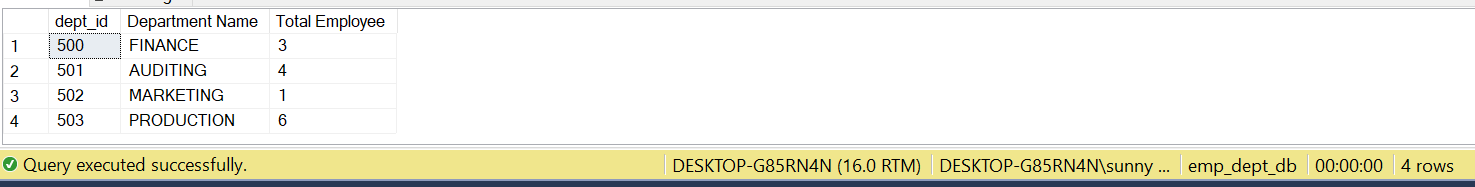
SELECT emp.dept\_id, dept.dept\_name "Department Name", COUNT(emp.dept\_id) "Total Employee"

FROM tblEmployee emp JOIN tblDepartment dept

ON emp.dept\_id = dept.dept\_id

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

Output:



Q4) Write a SQL query to find All Department along with the total salary there.

==>

SELECT emp.dept\_id, dept.dept\_name "Department Name", SUM(emp.salary) "Total Salary"

FROM tblEmployee emp JOIN tblDepartment dept

ON emp.dept\_id = dept.dept\_id

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

Output:

