**ASSIGNMENT – 11**

**ON: CREATING VIEWS**

**Q1. Create a view called EMPLOYEES\_VU based on the employee numbers, employee names, and department numbers from the EMPLOYEES table. Change the heading for the employee name to EMPLOYEE.**

Ans1.

CREATE OR REPLACE VIEW EMPLOYEES\_VU AS

SELECT EMPLOYEE\_ID, LAST\_NAME EMPLOYEE, DEPARTMENT\_ID

FROM EMPLOYEES;

**Q2. Display the contents of the EMPLOYEES\_VU view.**

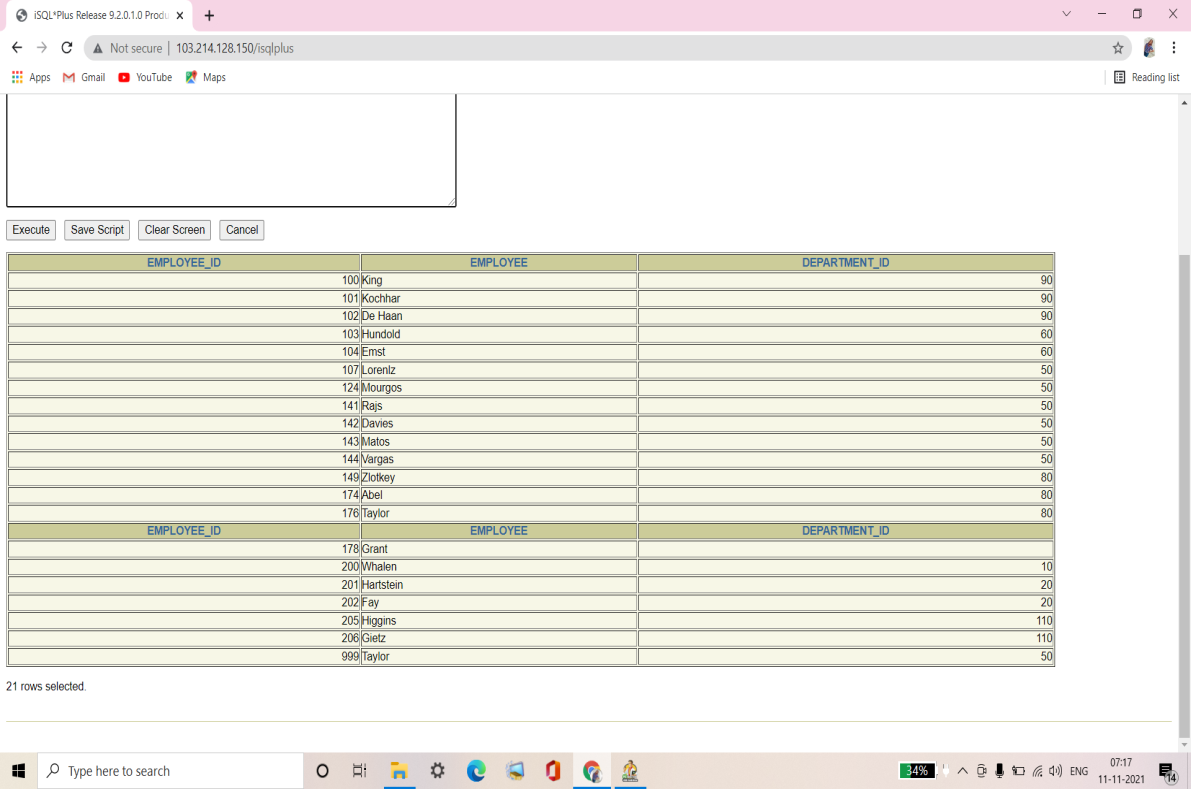
|  |  |  |
| --- | --- | --- |
| **EMPLOYEE\_ID** | **EMPLOYEE** | **DEPARTMENT\_ID** |
| **100** | **King** | **90** |
| **101** | **Kochhar** | **90** |
| **102** | **De Haan** | **90** |
| **103** | **Hunold** | **60** |
| **104** | **Ernst** | **60** |
| **107** | **Lorentz** | **50** |
|  |  |  |
| **206** | **Gietz** | **110** |

**20 rows selected.**

Ans2.

SELECT \* FROM EMPLOYEES\_VU;

**Verification table-**

****

**Q3. Select the view name and text from the USER\_VIEWS data dictionary view.**

**Note: Another view already exists. The EMP\_DETAILS\_VIEW was created as part of your schema.**

**Note: To see more contents of a long column, use the iSQL\*Plus command SET LONG n, where n is the value of the number of characters of the LONG column that you want to see.**

|  |  |
| --- | --- |
| **VIEW\_NAME** | **TEXT** |
| **EMPLOYEES\_VU** | **SELECT employee\_id, last\_name employee, department\_id FROM employees** |
| **EMP\_DETAILS\_VIEW** | **SELECT e.employee\_id, e.job\_id, e.manager\_id , e.department\_id, d.location\_id, l.country\_id, e.first\_name, e.last\_name, e.salary, e.commission\_pct, d.department\_name, j.job\_title, l.city, l.state\_province, c.country\_name, r.region\_name FROM employees e, departments d , jobs j, locations l, countries c, regions r WHERE e.department\_id = d.department\_id AND d.loaction\_id = l.location\_id AND l.country\_id = c. country\_id AND c.region\_id = r.region\_id AND j.job\_id = e.job\_id WITH READ ONLY** |

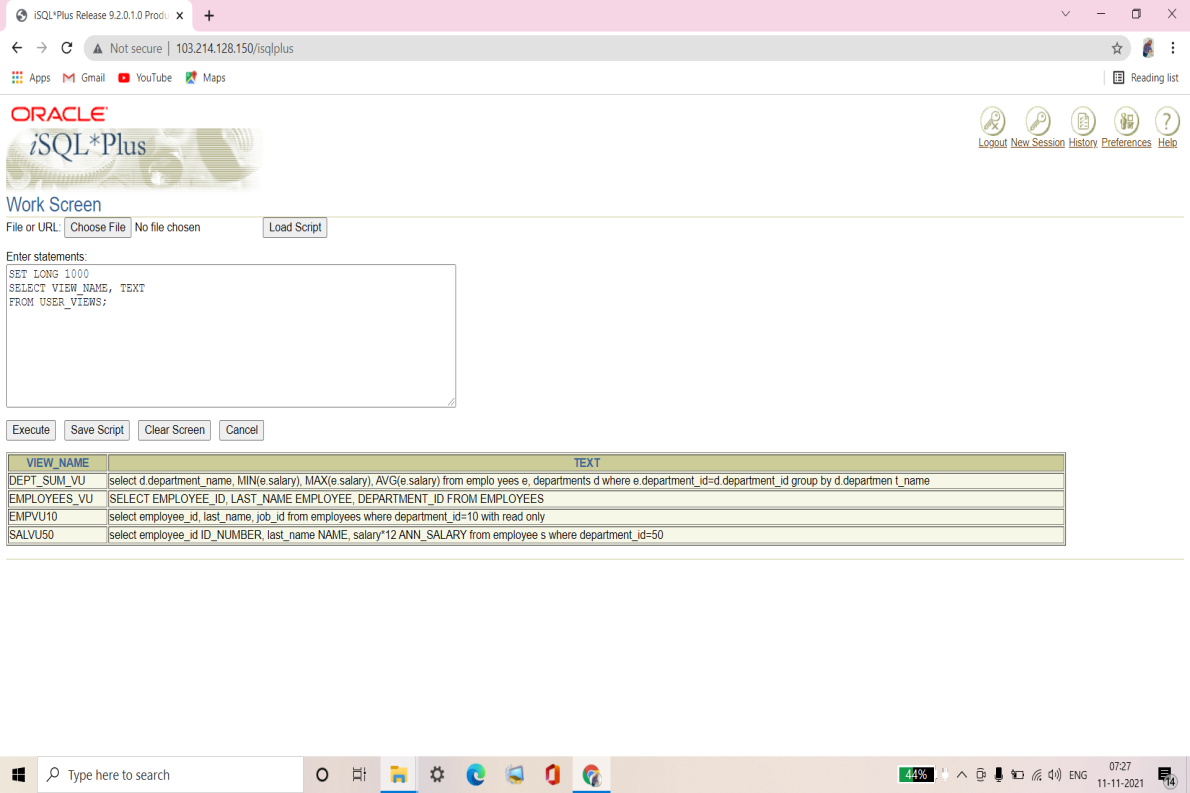
Ans3.

SET LONG 1000

SELECT VIEW\_NAME, TEXT

FROM USER\_VIEWS;

**Verification table-**



**Q4. Using your EMPLOYEES\_VU view, enter a query to display all employee names and department numbers.**

|  |  |
| --- | --- |
| **EMPLOYEE** | **DEPARTMENT\_ID** |
| **King** | **90** |
| **Kochhar** | **90** |
| **De Haan** | **90** |
|  |  |
| **Gietz** | **110** |

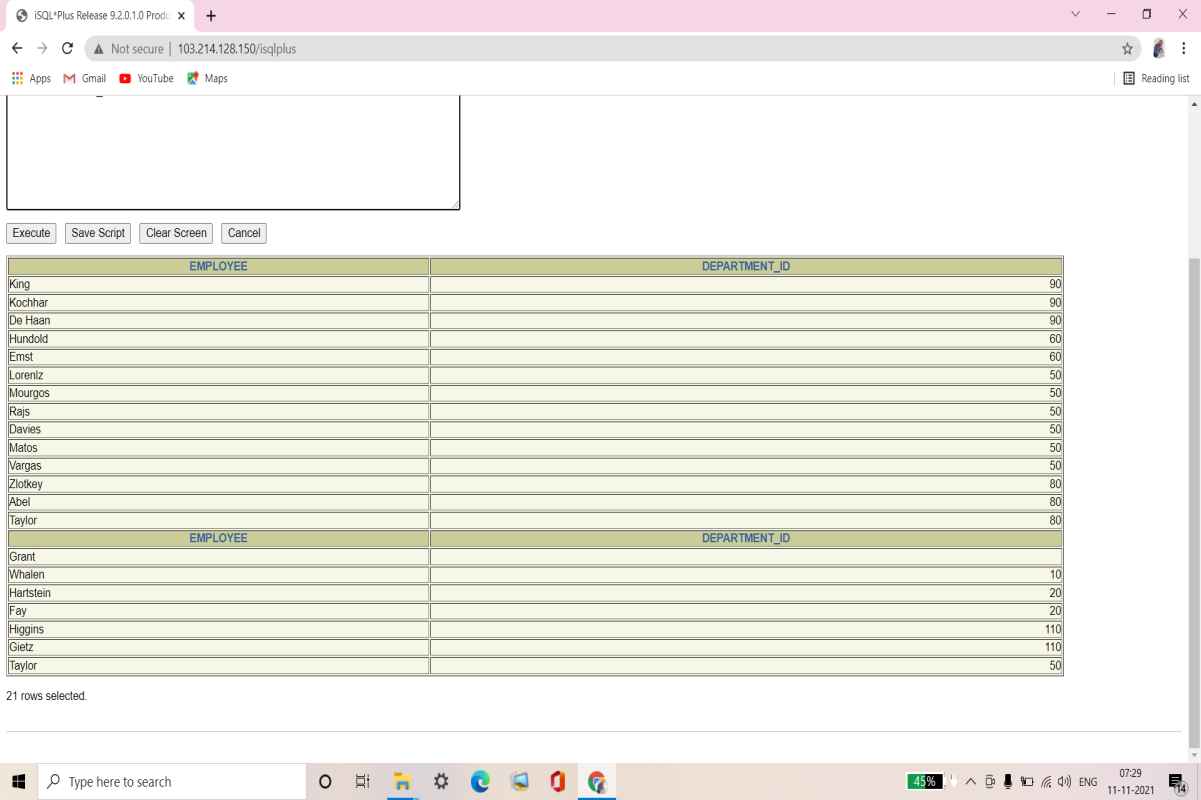
**20 rows selected.**

Ans4.

SELECT EMPLOYEE, DEPARTMENT\_ID

FROM EMPLOYEES\_VU;

**Verification table-**



**Q5. Create a view named DEPT50 that contains the employee numbers, employee last names, and department numbers for all employees in department 50. Label the view columns EMPNO, EMPLOYEE, and DEPTNO. Don not follow an employee to be reassigned to another department through the view.**

Ans5.

CREATE OR REPLACE VIEW DEPT50 AS

SELECT EMPLOYEE\_ID EMPNO, LAST\_NAME EMPLOYEE, DEPARTMENT\_ID DEPTNO

FROM EMPLOYEES

WHERE DEPARTMENT\_ID=50

WITH CHECK OPTION CONSTRAINT EMP\_DEPT\_50;

**Q6. Display the structure and contents of the DEPT50 view.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Null?** | **Type** |
| **EMPNO** | **NOT NULL** | **NUMBER(6)** |
| **EMPLOYEE** | **NOT NULL** | **VARCHAR2(25)** |
| **DEPTNO** |  | **NUMBER(4)** |

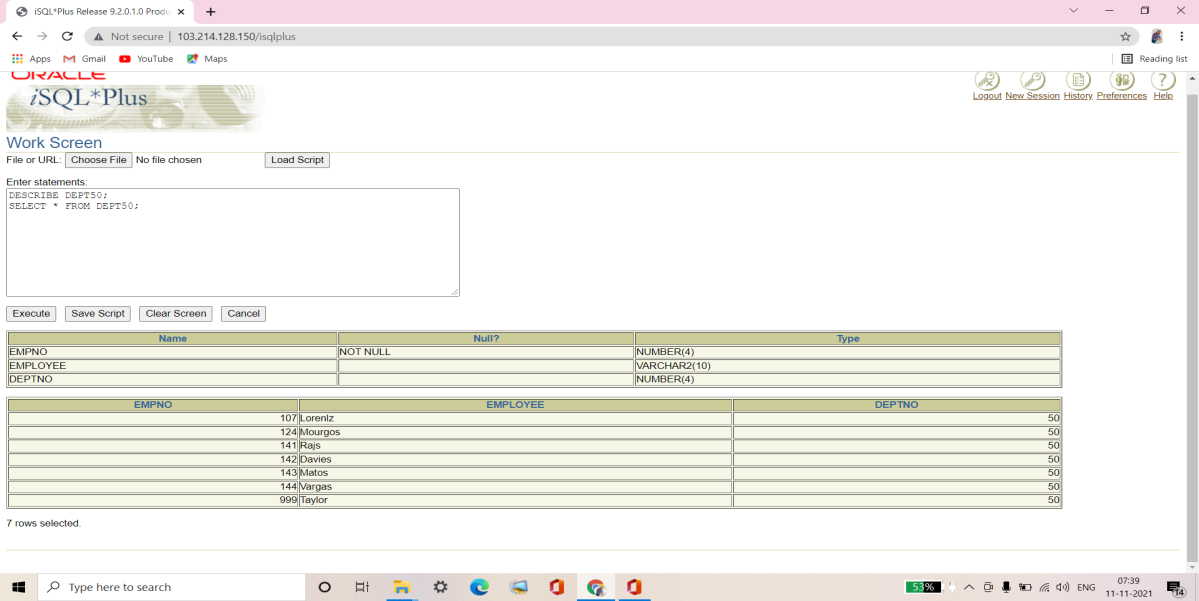
|  |  |  |
| --- | --- | --- |
| **EMPNO** | **EMPLOYEE** | **DEPTNO** |
| **124** | **Mourgos** | **50** |
| **141** | **Rajs** | **50** |
| **142** | **Davies** | **50** |
| **143** | **Matos** | **50** |
| **144** | **Vargas** | **50** |

Ans6.

DESCRIBE DEPT50;

SELECT \* FROM DEPT50;

**Verification table-**



**Q7. Attempt to reassign Matos to department 80.**

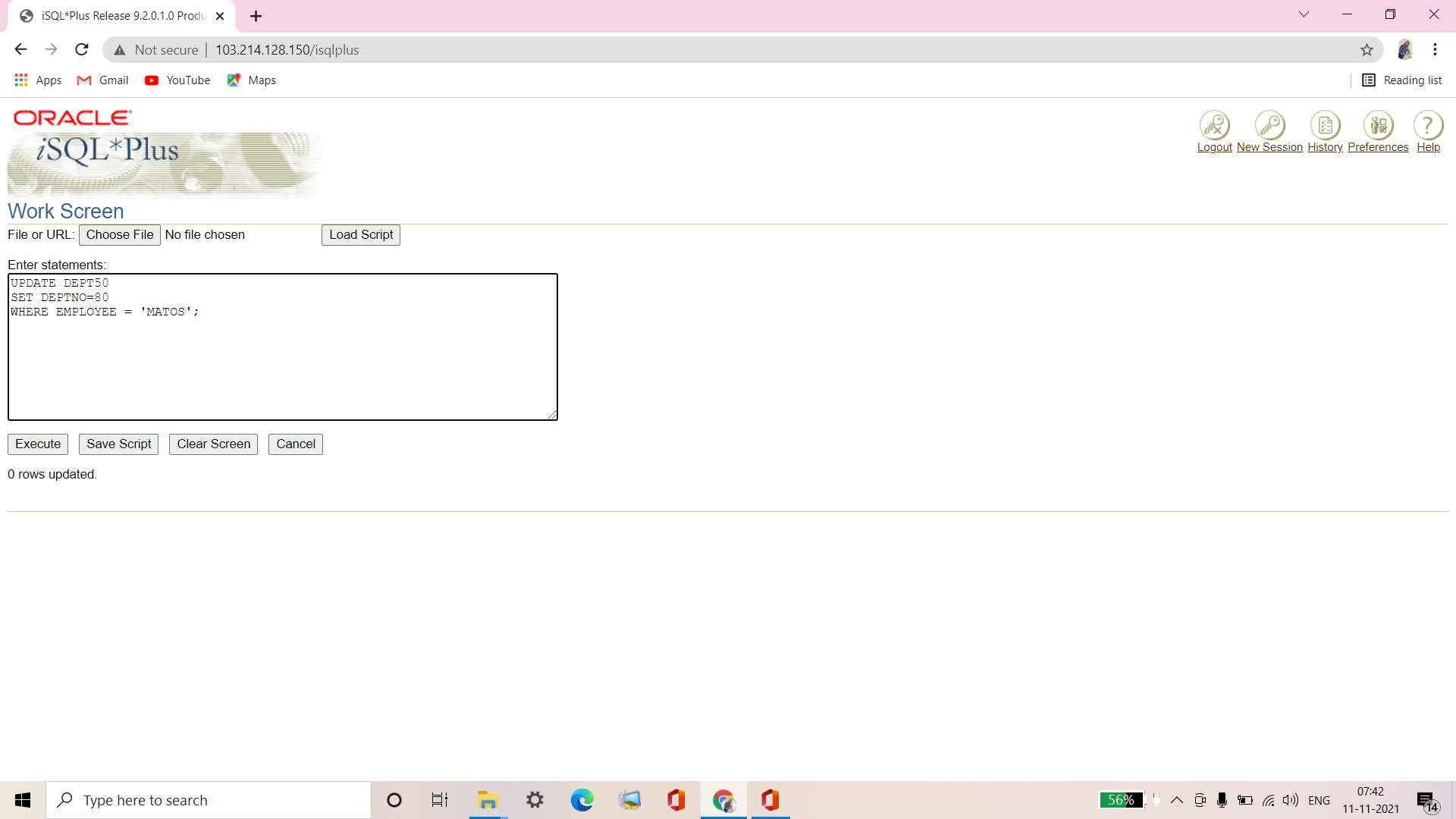
Ans7.

UPDATE DEPT50

SET DEPTNO=80

WHERE EMPLOYEE = 'MATOS';

**Verification table-**

****

**If you have time, complete the following exercise:**

**Q8. Create a view called SALARY\_VU based on the employee last names, department names, salaries, and salary grades for all employees. Use the EMPLOYEES, DEPARTMENTS, and JOB\_GRADES tables. Label the columns Employee, Department, Salary, and Grade, respectively.**

Ans8.

CREATE OR REPLACE VIEW SALARY\_VU AS

SELECT e.LAST\_NAME "Employee", d.DEPARTMENT\_NAME "Department",

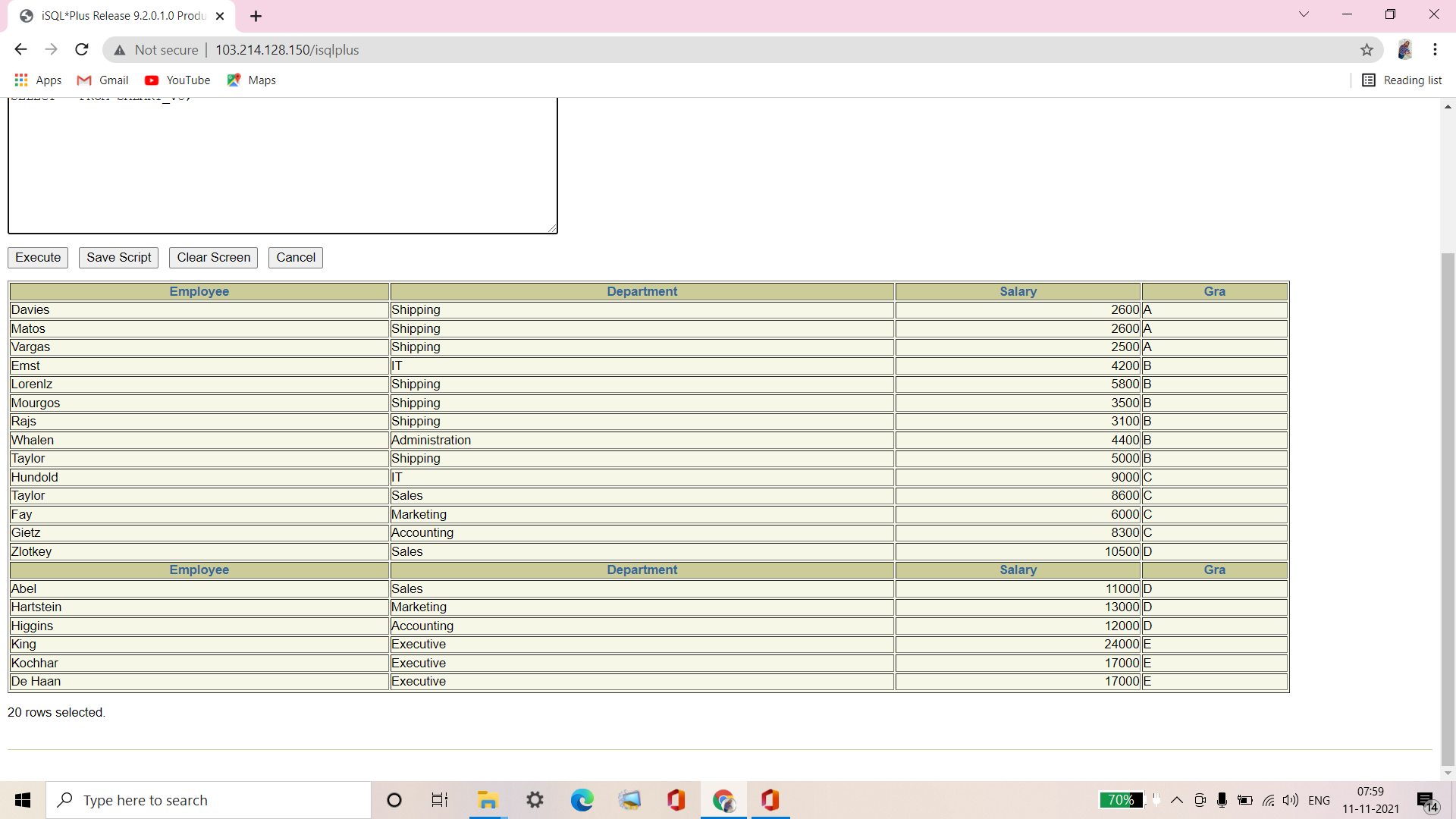
e.SALARY "Salary", j.GRADE\_LEVEL "Grades"

FROM EMPLOYEES e, DEPARTMENTS d, JOB\_GRADES j

WHERE e.DEPARTMENT\_ID = d.DEPARTMENT\_ID

AND e.SALARY BETWEEN j.LOWEST\_SAL AND j.HIGHEST\_SAL;

**Verification table-**

****