Oracle LAB 3

Exercise 1 (View):

A) Department 50 needs access to its employee data. Create a view named DEPT50 that contains the employee numbers, employee last names, and department numbers for all employees in department 50. You have been asked to label the view columns EMPNO, EMPLOYEE, and DEPTNO. For security purposes, do not allow an employee to be reassigned to another department through the view.

The Result:

```
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;
```
B) Display the structure and contents of the DEPT50 view.

**The Result:**

![SQL Window with query results]

```sql
SELECT * 
FROM dept50;
```
C) Test your view. Attempt to reassign Matos to department 80.

The Result:

```
SQL Window - UPDATE dept50 SET deptno = 80 WHERE employee = 'Matos';

Error
ORA-01402: अन्तर्द्वितीय WHERE clause WITH CHECK OPTION
```

```
Exercise 2 (Sequence):

A) You need a sequence that can be used with the primary key column of the DEPT table. The sequence should start at 200 and have a maximum value of 1,000. Have your sequence increment by 10. Name the sequence DEPT_ID_SEQ.

The Result:

B) To test your sequence, write a script to insert two rows in the DEPT table. Be sure to use the sequence that you created for the ID column. Add two departments: Education and Administration. Confirm your additions. Run the commands in your script.

The Result:
Exercise 3 (Synonyms):

Create a synonym for your EMPLOYEES table. Call it EMP.

The Result: