



Islamic University of Gaza
Faculty of Engineering
Computer Department

Advanced DataBase ECOM 5054
Instructor: Eng. Husam Alzaq
T.A: Eng. Doaa KH. Abu Jabal

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:

```
SQL Window - New
SQL Output Statistics
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;
```

The screenshot shows a window titled "SQL Window - New" with three tabs: "SQL", "Output", and "Statistics". The "SQL" tab is active, displaying the following SQL code:
`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;`
The window has a status bar at the bottom showing a flag icon, a refresh icon, and the time "7:42".



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

The Result:

	EMPNO	EMPLOYEE	DEPTNO
1	198	OConnell	50
2	199	Grant	50
3	120	Weiss	50
4	121	Fripp	50
5	122	Kaufling	50
6	123	Vollman	50
7	124	Mourgous	50
8	125	Nayer	50
9	126	Mikkilineni	50
10	127	Landry	50
11	128	Markle	50
12	129	Bissot	50

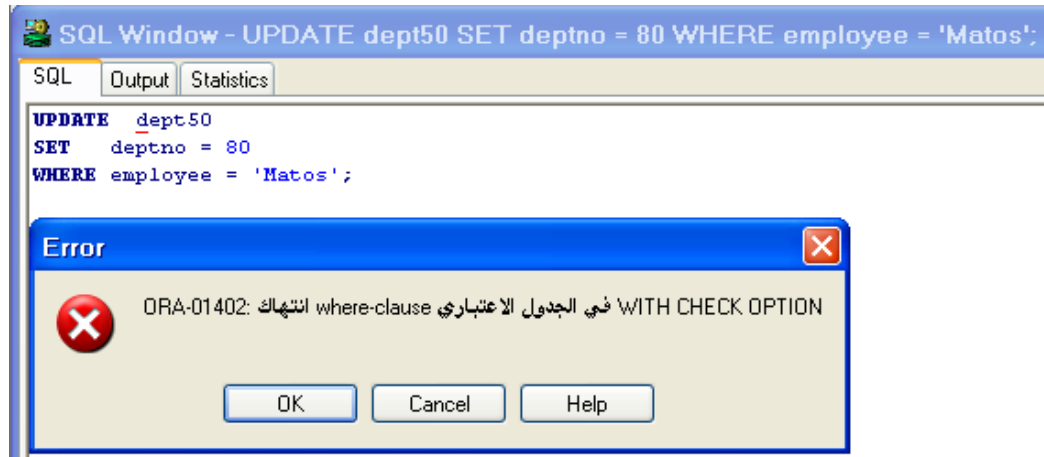


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C) Test your view. Attempt to reassign Matos to department 80.

The Result:





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:

```
SQL Window - New
SQL Output Statistics
CREATE SEQUENCE dept_id_seq
START WITH 200
INCREMENT BY 10
MAXVALUE 1000;
```

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:

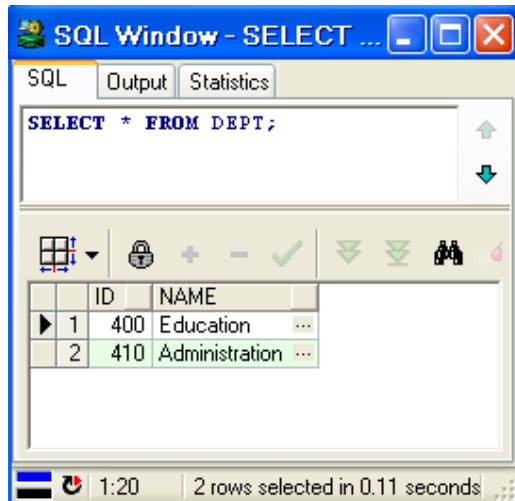
```
SQL Window - New
SQL Output Statistics
INSERT INTO dept
VALUES (dept_id_seq.NEXTVAL, 'Education');

INSERT INTO dept
VALUES (dept_id_seq.NEXTVAL, 'Administration');
```



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Exercise 3(Synonyms):

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

The Result:

