ces for Less anipulating Data

Chapter 10

Chapter 10 Practices for Lesson 10:

# **Practices for Lesson 10: Overview**

## **Lesson Overview**

This practice covers the following topics:

- · Inserting rows into tables
- · Updating and deleting rows in a table
- Controlling transactions

**Note:** Before starting this practice, execute

/home/oracle/labs/sql1/code\_ex /cleanup\_scripts/cleanup\_10.sql script.

# **Practice 10-1: Managing Tables by Using DML Statements**

#### Overview

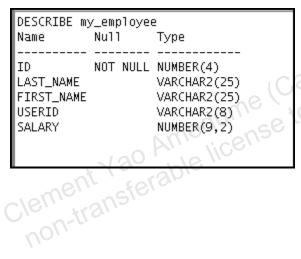
The HR department wants you to create SQL statements to insert, update, and delete employee data. As a prototype, you use the MY EMPLOYEE table before giving the statements to the HR department.

### Notes

- For all the DML statements, use the Run Script icon (or press F5) to execute the query. Thus, you get to see the feedback messages on the Script Output tabbed page. For SELECT queries, continue to use the Execute Statement icon or press F9 to get the formatted output on the Results tabbed page.
- Execute cleanup 10.sql script from /home/oracle/labs/sql1/code ex /cleanup scripts/ before performing the following tasks.

### **Tasks**

- Create a table called MY EMPLOYEE.
- Jamed 400 gmail. Guide this Student Describe the structure of the MY\_EMPLOYEE table to identify the column names.



3. Create an INSERT statement to add the *first row* of data to the MY\_EMPLOYEE table from the following sample data. Do not list the columns in the INSERT clause. *Do not enter all rows yet.* 

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	895
2	Dancs	Betty	bdancs	860
3	Biri	Ben	bbiri	1100
4	Newman	Chad	cnewman	750
5	Ropeburn	Audrey	aropebur	1550

- 4. Populate the MY\_EMPLOYEE table with the second row of the sample data from the preceding list. This time, list the columns explicitly in the INSERT clause.
- 5. Confirm your addition to the table.

	A ID	£ L	AST_NAM	1E 🖁	FIRST_NAME	2 USERI	D 2	SALARY
1	1	Pate	1	Ral	ph 5	rpatel		895
2	2	Danc	5	Bet	ty.	bdancs		860

- 6. Write an INSERT statement in a dynamic reusable script file to load the remaining rows into the MY\_EMPLOYEE table. The script should prompt for all the columns (ID, LAST\_NAME, FIRST NAME, USERID, and SALARY). Save this script to a lab 10 06.sql file.
- 7. Populate the table with the next two rows of the sample data listed in step 3 by running the INSERT statement in the script that you created.
- 8. Confirm your additions to the table.

	A ID	LAST_NAME	FIRST_NAME	2 USERID	2 SALARY
1	1	Patel	Ralph	rpatel	895
2	2	Dancs	Betty	bdancs	860
3	3	Biri	Ben	bbiri	1100
4	4	Newman	Chad	cnewman	750

9. Make the data additions permanent.

Update and delete data in the MY\_EMPLOYEE table.

10. Change the last name of employee 3 to Drexler.

- 11. Change the salary to \$1,000 for all employees who have a salary less than \$900.
- 12. Verify your changes to the table.

	A ID	LAST_NAME	FIRST_NAME	2 USERID	SALARY
1	1	Patel	Ralph	rpatel	1000
2	2	Dancs	Betty	bdancs	1000
3	3	Drexler	Ben	bbiri	1100
4	4	Newman	Chad	cnewman	1000

- 13. Delete Betty Dancs from the MY EMPLOYEE table.
- 14. Confirm your changes to the table.

	∄ ID	LAST_NAME	PIRST_NAME	USERID	SALARY
1	1	Patel	Ralph	rpatel	1000
2	3	Drexler	Ben	bbiri	1100
3	4	Newman	Chad	cnewman	1000

15. Commit all pending changes.

Control the data transaction to the MY EMPLOYEE table.

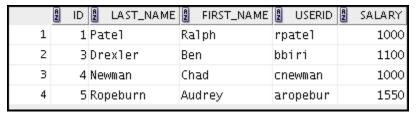
16. Populate the table with the last row of the sample data listed in step 3 by using the statements in the script that you created in step 6. Run the statements in the script.

**Note:** Perform the steps (17-23) in one session only.

17. Confirm your addition to the table.



- 18. Mark an intermediate point in the processing of the transaction.
- 19. Delete all the rows from the MY EMPLOYEE table.
- 20. Confirm that the table is empty.
- 21. Discard the most recent DELETE operation without discarding the earlier INSERT operation.
- 22. Confirm that the new row is still intact.



23. Make the data addition permanent.

If you have time, complete the following exercise:

- 24. Modify the lab\_10\_06.sql script such that the USERID is generated automatically by concatenating the first letter of the first name and the first seven characters of the last name. The generated USERID must be in lowercase. Therefore, the script should not prompt for the USERID. Save this script to a file named lab\_10\_24.sql.
- 25. Run the lab 10 24.sql script to insert the following record:

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
6	Anthony	Mark	manthony	1230

26. Confirm that the new row was added with the correct USERID.

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	A	ID 🖁	LAST_N	AME 🖁	FIRST_1	NAME 🖁	USERID	A	SALARY
1		6 A	nthony	Ma	ırk	ma	nthony		1230
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									10iS
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			LAST_N nthony		MUK	18 /	O U		
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