Practices for Lesson 9

In this practice, you add rows to the MY_EMPLOYEE table, update and delete data from the table, and control your transactions. You run a script to create the MY EMPLOYEE table.

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Practice 9-1: Manipulating Data

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.

Note: For all the DML statements, use the Run Script icon (or press [F5]) to execute the query. This way 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.

Insert data into the MY_EMPLOYEE table.

- Run the statement in the lab_09_01.sql script to build the MY_EMPLOYEE table
 used in this practice.
- 2) Describe the structure of the MY EMPLOYEE table to identify the column names.

DESCRIBE my_employee Name	Null	Туре
ID LAST_NAME FIRST_NAME USERID SALARY	NOT NULL	NUMBER(4) VARCHAR2(25) VARCHAR2(25) VARCHAR2(8) NUMBER(9,2)
5 rows selected		

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

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.*

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Practice 9-1: Manipulating Data (continued)

- 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	LAST_NAME	FIRST_NAME	2 USERID	SALARY
1		1	Patel	Ralph	rpatel	895
2		2	Dancs	Betty	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 09 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	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	2 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.

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Practice 9-1: Manipulating Data (continued)

	g ID) A	LAST_NAME	A	FIRST_NAME	A	USERID	A	SALARY
1	:	1 Pat	el	Ral	ph	rpa	itel		1000
2		3 Dr	exler	Ber	1	bbi	iri		1100
3		4 Ne	wman	Ch	ad	cne	ewman		1000

15) Commit all pending changes.

Control 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.
- 17) Confirm your addition to the table.

_		2 ID	LAST_NAME	FIRST_NAME	USERID	2 SALARY
	1	1	Patel	Ralph	rpatel	1000
	2	3	Drexler	Ben	bbiri	1100
	3	4	Newman	Chad	cnewman	1000
	4	5	Ropeburn	Audrey	aropebur	1550

- 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.

	g ID	LAST_NAME	FIRST_NAME	2 USERID	2 SALARY
1	1	Patel	Ralph	rpatel	1000
2	3	Drexler	Ben	bbiri	1100
3	4	Newman	Chad	cnewman	1000
4	5	Ropeburn	Audrey	aropebur	1550

23) Make the data addition permanent.

If you have the time, complete the following exercise:

24) Modify the lab_09_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_09_24.sql.

ID	LAST_NAME	AST_NAME FIRST_NAME		SALARY
6	Anthony	Mark	manthony	1230

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Practice 9-1: Manipulating Data (continued)

- 25) Run the lab_09_24.sql script to insert the following record:
- 26) Confirm that the new row was added with correct USERID.

