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**UPA**

**Universidad Politécnica de Aguascalientes.**

**ISC06B**

**DATA BASE ADMINISTRATION**

# DP 12-2 PRACTICE

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**Database Programming with SQL**

**12-2: Updating Column Values and Deleting Rows**

**Practice Activities**

**Objectives**

* Construct and execute an UPDATE statement
* Construct and execute a DELETE statement
* Construct and execute a query that uses a subquery to update and delete data from a table
* Construct and execute a query that uses a correlated subquery to update and delete from a table
* Explain how foreign-key and primary-key integrity constraints affect UPDATE and DELETE statements
* Explain the purpose of the FOR UPDATE Clause in a SELECT statement

**Vocabulary Identify the vocabulary word for each definition below**.

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| Update | Modifies existing rows in a table |
| Correlated subquery UPDATE | Retrieves information from one table & uses the information to  update another table |
| Integrity Constraint | Ensures that the data adheres to a predefined set of rules |
| Correlated subquery DELETE | Deletes information on a linked table based on what was deleted on the other table |
| Delete | Removes existing rows from a table |

**Try It / Solve It**

**NOTE: Copy tables in this section do not exist**

If any change is not possible, give an explanation as to why it is not possible.

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| Problem No: 1 | No. Rows in Result: |
| 1. Monique Tuttle, the manager of Global Fast Foods, sent a memo requesting an immediate change in prices. The price for a strawberry shake will be raised from $3.59 to $3.75, and the price for fries will increase to $1.20. Make these changes to the copy\_f\_food\_items table. | 2 |
| Text Code (No image) : | |
| CREATE TABLE copy\_f\_food\_items  as  SELECT \* FROM f\_food\_items;  UPDATE copy\_f\_food\_items  SET price = 3.75  WHERE description = 'Strawberry Shake';  UPDATE copy\_f\_food\_items  SET price = 1.20  WHERE description = 'Fries'; | |
| Image Result: | |
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| Problem No: 2 | No. Rows in Result: |
| 2. Bob Miller and Sue Doe have been outstanding employees at Global Fast Foods. Management has decided to reward them by increasing their overtime pay. Bob Miller will receive an additional $0.75 per hour and Sue Doe will receive an additional $0.85 per hour. Update the copy\_f\_staffs table to show these new values. (Note: Bob Miller currently doesn’t get overtime pay. What function do you need to use to convert a null value to 0?) | 3 |
| Text Code (No image) : | |
| CREATE TABLE copy\_f\_staffs  as  SELECT \* FROM f\_staffs;  UPDATE copy\_f\_staffs  SET overtime\_rate = overtime\_rate+0.85  WHERE first\_name = 'Sue'  and last\_name = 'Doe' ;      UPDATE copy\_f\_staffs  SET overtime\_rate = NVL(overtime\_rate, 0)+0.75  WHERE first\_name = 'Bob'  and last\_name = 'Miller'; | |
| Image Result: | |
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| Problem No: 3 | No. Rows in Result: |
| 3. Add the orders shown to the Global Fast Foods copy\_f\_orders table: | 0 |
| Text Code (No image) : | |
| The dates are in the wrong format and there is no way to enter them into the database this way. | |
| Image Result: | |
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| Problem No: 4 | No. Rows in Result: |
| 4. Add the new customers shown below to the copy\_f\_customers table. You may already have added Katie Hernandez. Will you be able to add all these records successfully? | 4 |
| Text Code (No image) : | |
| CREATE TABLE copy\_f\_customers  as  SELECT \* FROM f\_customers;  INSERT INTO copy\_f\_customers  values(145,'Katie', 'Hernandez','92 Chico Way', 'Los Angeles', 'CA', 98008, 8586667641);  INSERT INTO copy\_f\_customers  values(225,'Daniel', 'Spode','1923 Silverado', 'Denver', 'CO', 80219, 7193343523);  The last record can’t be entered because there can be no null records in this field.  INSERT INTO copy\_f\_customers  (id, first\_name, last\_name,address,city,state,phone\_number)  values(230,'Adam', 'Zurn','5 Admiral', 'Seattle', 'WA',7193343523); | |
| Image Result: | |
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| Problem No: 5 | No. Rows in Result: |
| 5. Sue Doe has been an outstanding Global Foods staff member and has been given a salary raise. She will now be paid the same as Bob Miller. Update her record in copy\_f\_staffs | 3 |
| Text Code (No image) : | |
| UPDATE copy\_f\_staffs  SET salary = (select salary  from copy\_f\_staffs  WHERE first\_name = 'Bob'  and last\_name = 'Miller')  WHERE first\_name = 'Sue'  and last\_name = 'Doe' ; | |
| Image Result: | |
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| Problem No: 6 | No. Rows in Result: |
| 6. Global Fast Foods is expanding their staff. The manager, Monique Tuttle, has hired Kai Kim. Not all information is available at this time, but add the information shown here. | 1 |
| Text Code (No image) : | |
| --Insert  insert into f\_staffs  (ID, FIRST\_NAME, LAST\_NAME, BIRTHDATE, SALARY, STAFF\_TYPE)  VALUES (25, 'Kai', 'Kim', to\_date('3-Nov-1988', 'dd-Mon-yyyy'), 6.75, 'Order Taker');  --Select  select \* from f\_staffs where id = 25; | |
| Image Result: | |
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| Problem No: 7 | No. Rows in Result: |
| 7. Now that all the information is available for Kai Kim, update his Global Fast Foods record to include the following: Kai will have the same manager as Sue Doe. He does not qualify for overtime. Leave the values for training, manager budget, and manager target as null. | 1 |
| Text Code (No image) : | |
| --Update  update f\_staffs  set manager\_id = (select manager\_id from f\_staffs where first\_name = 'Sue' and last\_name='Doe')  where id=25;  --Select  select \* from f\_staffs where id = 25; | |
| Image Result: | |
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| Problem No: 8 | No. Rows in Result: |
| 8. Execute the following SQL statement. Record your results. DELETE from departments WHERE department\_id = 60; | 0 |
| Text Code (No image) : | |
| DELETE from departments  WHERE department\_id = 60; | |
| Image Result: | |
| The query cannot be executed because the departments table has a foreign key on which some data from other tables depends, so a related table cannot be deleted so easily | |

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| Problem No: 9 | No. Rows in Result: |
| 9. Kim Kai has decided to go back to college and does not have the time to work and go to school. Delete him from the Global Fast Foods staff. Verify that the change was made. | 0 |
| Text Code (No image) : | |
| DELETE FROM f\_staffs  WHERE first\_name = 'Kai' and last\_name = 'Kim'; | |
| Image Result: | |
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| Problem No: 10 | No. Rows in Result: |
| 10.Create a copy of the employees table and call it lesson7\_emp; Once this table exists, write a correlated delete statement that will delete any employees from the lesson7\_employees table that also exist in the job\_history table. | 15 |
| Text Code (No image) : | |
| --creting the copy  create table lesson7\_emp as select \* from employees;  --correlated delete  DELETE FROM lesson7\_emp  WHERE employee\_id in  (SELECT employee\_id FROM job\_history);  --Select  select \* from lesson7\_emp; | |
| Image Result: | |
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