

Section 7 Lesson 1: INSERT Statements

Try It / Solve It

Students should execute DESC tablename before doing INSERT to view the data types for each column. VARCHAR2 data-type entries need single quotation marks in the VALUES statement.

1. Give two examples of why it is important to be able to alter the data in a database.
[School student databases change day-to-day and year-to-year. Employees get hired, fired, and promoted throughout the year.](#)
2. DJs on Demand just purchased four new CDs. Use an explicit INSERT statement to add each CD to the copy_d_cds table. After completing the entries, execute a SELECT * statement to verify your work.

CD_Number	Title	Producer	Year
97	Celebrate the Day	R & B Inc.	2003
98	Holiday Tunes for All Ages	Tunes are Us	2004
99	Party Music	Old Town Records	2004
100	Best of Rock and Roll	Old Town Records	2004

Home
Application Builder
SQL Workshop
Administration

SQL Workshop
SQL Commands

Rows: 10
Save
Run

```
SELECT *
FROM copy_d_cds;
```

Results
Explain
Describe
Saved SQL
History

CD_NUMBER	TITLE	PRODUCER	YEAR
90	The Celebrants Live in Concert	Old Town Records	1997
92	Back to the Shire	Middle Earth Records	2002
93	Songs from My Childhood	Old Town Records	1999
95	Here Comes the Bride	The Music Man	2001
96	Graduation Songbook	Tunes Are Us	1998
98	Whirled Peas	Old Town Records	2004
97	Celerbrate the day	R & B	2003
99	party music	old town records	2004
100	best of rock and roll	old town records	2004
120	Hello World Here I Am	Middle Earth Records	1998

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.01 seconds
Download

Workspace: US_1350 User: US_1350_SQL01_S25

3. DJs on Demand has two new events coming up. One event is a fall football party and the other event is a sixties theme party. The DJs on Demand clients requested the songs shown in the table for their events. Add these songs to the copy_d_songs table using an implicit INSERT statement. I'm not sure if there was some kind of error, but the values have been previously inserted before I started this exercise.

ID	Title	Duration	Type_Code
52	Surfing Summer	Not known	12
53	Victory Victory	5 min	12

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SQL Commands

Rows: 10
Save
Run

```
SELECT *
FROM copy_d_songs;
```

Results
Explain
Describe
Saved SQL
History

ID	TITLE	DURATION	ARTIST	TYPE_CODE
45	Its Finally Over	5 min	The Hobbits	12
46	Im Going to Miss My Teacher	2 min	Jane Pop	12
47	Hurrah for Today	3 min	The Jubilant Trio	77
48	Meet Me At the Altar	6 min	Bobby West	1
49	Lets Celebrate	8 min	The Celebrants	77
50	All These Years	10 min	Diana Crooner	88
52	surfing summer			12
53	victory victory	5min		12
88	Mello Jello	2	The What	4
52	Surfing Summer	-	-	12

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.01 seconds [Download](#)

Workspace: US_1350 User: US_1350_SQL01_S25

4. Add the two new clients to the copy_d_clients table. Use either an implicit or an explicit INSERT.

Client_Number	First_Name	Last_Name	Phone	Email
6655	Ayako	Dahish	3608859030	<u>dahisha@harbor.net</u>
6689	Nick	Neuville	9048953049	nnicky@charter.net

Home
Application Builder
SQL Workshop
Administration

SQL Workshop
SQL Commands

Rows: 10
Save
Run

```
select * from copy_d_clients;
```

Results
Explain
Describe
Saved SQL
History

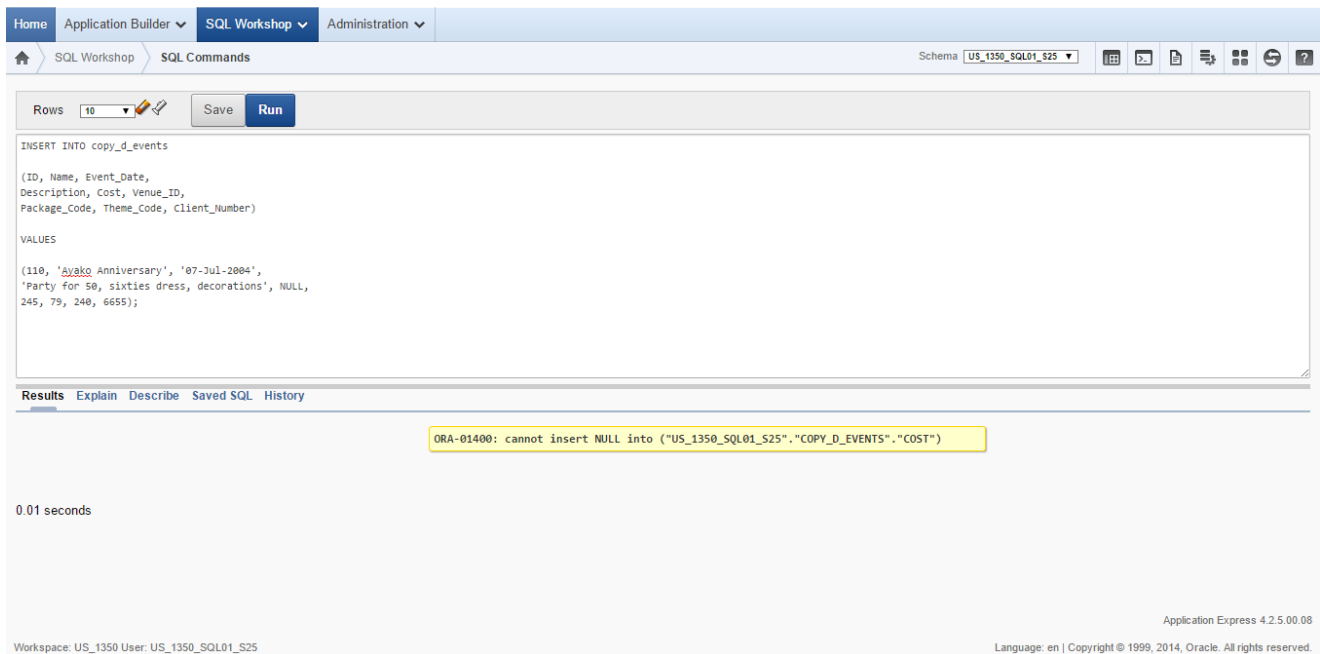
CLIENT_NUMBER	FIRST_NAME	LAST_NAME	PHONE	EMAIL
5922	Hiram	Peters	3715832249	hpeters@yahoo.com
5857	Serena	Jones	7035335900	serena.jones@jones.com
6133	Lauren	Vigil	4072220090	lbv@lbv.net
6655	ayako	dahish	3608859030	dhish@harbor.net
6689	nick	neuville	9048953049	nnickey@charter.net

5 rows returned in 0.01 seconds [Download](#)

Workspace: US_1350 User: US_1350_SQL01_S25

5. Add the new client's events to the copy_d_events table. The cost of each event has not been determined at this date. **Cannot insert NULL values into a column that does not permit NULL values.**

ID	Name	Event_ Date	Description	Cost	Venue_ ID	Package_ Code	Theme_ Code	Client_ Number
110	Ayako Anniversary	07-Jul-2004	Party for 50, sixties dress, decorations		245	79	240	6655
115	Neuville Sports Banquet	09Sep2004	Barbecue at residence, college alumni, 100 people		315	87	340	6689



The screenshot shows the SQL Workshop interface with the following components:

- Navigation Bar:** Home, Application Builder, SQL Workshop (selected), Administration.
- Breadcrumbs:** SQL Workshop > SQL Commands.
- Schema:** US_1350_SQL01_S25.
- SQL Command Editor:**

```

INSERT INTO copy_d_events
(ID, Name, Event_Date,
Description, Cost, Venue_ID,
Package_Code, Theme_Code, client_Number)
VALUES
(110, 'Ayako Anniversary', '07-Jul-2004',
'Party for 50, sixties dress, decorations', NULL,
245, 79, 240, 6655);

```
- Results Panel:**
 - Messages:**

```

ORA-01400: cannot insert NULL into ("US_1350_SQL01_S25"."COPY_D_EVENTS"."COST")

```
 - Execution Time:** 0.01 seconds.
- Footer:**
 - Workspace: US_1350 User: US_1350_SQL01_S25
 - Application Express 4.2.5.00.08
 - Language: en | Copyright © 1999, 2014, Oracle. All rights reserved.

6. Create a table called rep_email using the following statement: CREATE TABLE rep_email(
id NUMBER CONSTRAINT rel_id_pk PRIMARY KEY,
first_name VARCHAR2, last_name VARCHAR2,
email_address VARCHAR2)

Populate this table by running a query on the employees table that includes only those employees who are REP's.

The screenshot shows the Oracle SQL Workshop interface. At the top, there are tabs for Home, Application Builder, SQL Workshop (selected), and Administration. Below these, there are sub-tabs for SQL Workshop and SQL Commands. The main area contains a text editor with the following SQL command:

```
INSERT INTO rep_email  
(ID, FIRST_NAME, LAST_NAME, EMAIL_ADDRESS)  
SELECT employee_id, first_name, last_name, email  
FROM employees WHERE job_id LIKE '%REP%';
```

Below the text editor, there are buttons for Rows (set to 10), Save, and Run. The Run button is highlighted. Below the text editor, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is selected, showing the output:

```
4 row(s) inserted.  
  
0.01 seconds
```

At the bottom, the workspace information is displayed: Workspace: US_1350 User: US_1350_SQL01_S25.

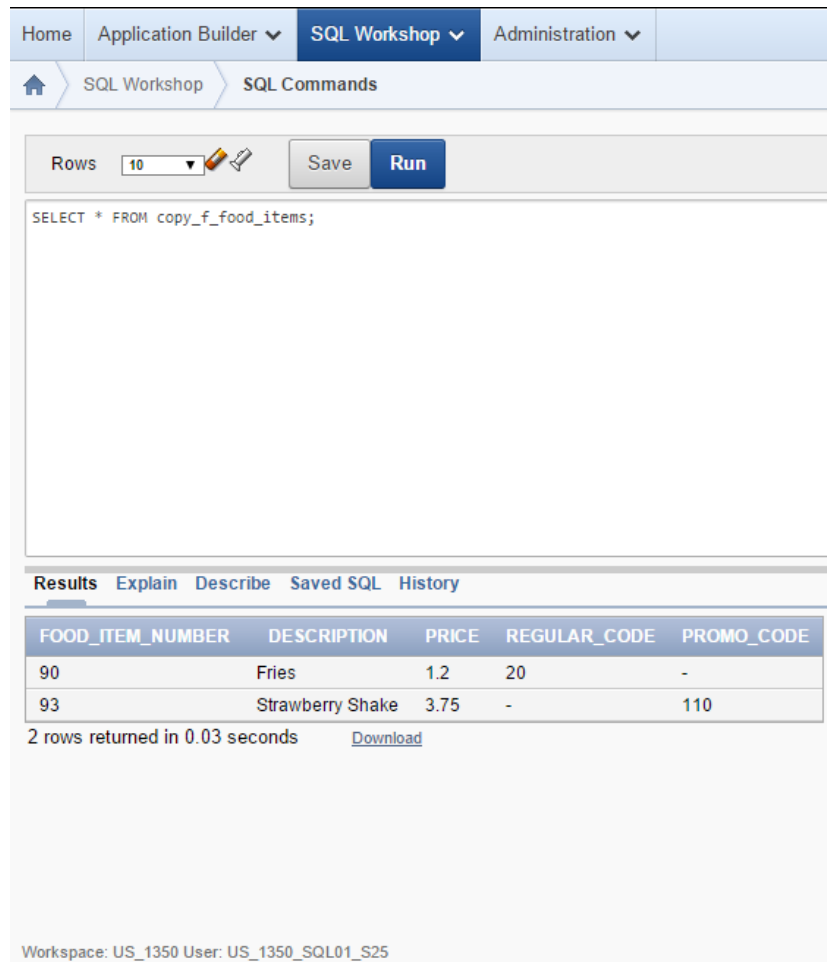
Section 7 Lesson 2: Updating Column Values and Deleting Rows

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.

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.



The screenshot shows the Oracle SQL Workshop interface. The top navigation bar includes 'Home', 'Application Builder', 'SQL Workshop' (selected), and 'Administration'. Below this, the 'SQL Workshop' breadcrumb is active, leading to 'SQL Commands'. The main area contains a text editor with the SQL command: `SELECT * FROM copy_f_food_items;`. Above the editor are controls for 'Rows' (set to 10), a 'Save' button, and a 'Run' button. Below the editor, the 'Results' tab is selected, displaying a table with 2 rows. The table columns are FOOD_ITEM_NUMBER, DESCRIPTION, PRICE, REGULAR_CODE, and PROMO_CODE. The data rows are: (90, Fries, 1.2, 20, -) and (93, Strawberry Shake, 3.75, -, 110). Below the table, it states '2 rows returned in 0.03 seconds' and provides a 'Download' link. At the bottom, the workspace information is 'Workspace: US_1350 User: US_1350_SQL01_S25'.

FOOD_ITEM_NUMBER	DESCRIPTION	PRICE	REGULAR_CODE	PROMO_CODE
90	Fries	1.2	20	-
93	Strawberry Shake	3.75	-	110

2 rows returned in 0.03 seconds [Download](#)

Workspace: US_1350 User: US_1350_SQL01_S25

- 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?)

Home
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SQL Workshop
SQL Commands
Schema: US_1350_SQL01_S25

Rows: 10
Save
Run

```
SELECT * FROM copy_f_staffs;
```

Results
Explain
Describe
Saved SQL
History

ID	FIRST_NAME	LAST_NAME	BIRTHDATE	SALARY	OVERTIME_RATE	TRAINING	STAFF_TYPE	MANAGER_ID	MANAGER_BUDGET	MANAGER_TARGET
12	Sue	Doe	01/Jul/1980	10	11.95	-	Order Taker	19	-	-
9	Bob	Miller	19/Mar/1979	10	.75	Grill	Cook	19	-	-
19	Monique	Tuttle	30/Mar/1969	60	-	-	Manager	-	50000	70000

3 rows returned in 0.01 seconds
[Download](#)

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Workspace: US_1350 User: US_1350_SQL01_S25
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3. Add the orders shown to the Global Fast Foods copy_f_orders table:

ORDER_NUMBER	ORDER_DATE	ORDER_TOTAL	CUST_ID	STAFF_ID
5680	June 12, 2004	159.78	145	9
5691	09-23-2004	145.98	225	12
5701	July 4, 2004	229.31	230	12

Home
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Rows: 10
Save
Run

SELECT * FROM copy_f_orders;

Results
Explain
Describe
Saved SQL
History

ORDER_NUMBER	ORDER_DATE	ORDER_TOTAL	CUST_ID	STAFF_ID
5678	10/Dec/2002	103.02	123	12
5680	12/Jun/2004	159.78	145	9
5691	23/Sep/2004	145.98	225	12
5701	04/Jul/2004	229.31	230	12

4 rows returned in 0.00 seconds
[Download](#)

Workspace: US_1350 User: US_1350_SQL01_S25

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?

ID	FIRST_NAME	LAST_NAME	ADDRESS	CITY	STATE	ZIP	PHONE_NUMBER
145	Katie	Hernandez	92 Chico Way	Los Angeles	CA	98008	8586667641
225	Daniel	Spode	1923 Silverado	Denver	CO	80219	7193343523
230	Adam	Zurn	5 Admiral Way	Seattle	WA		4258879009

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SQL Workshop
SQL Commands
Schema: US_1350_SQL01_S25

Rows: 10
Save
Run

SELECT * FROM copy_f_customers;

Results
Explain
Describe
Saved SQL
History

ID	FIRST_NAME	LAST_NAME	ADDRESS	CITY	STATE	ZIP	PHONE_NUMBER
123	Cole	Bee	123 Main Street	Orlando	FL	32838	4075558234
456	Zoe	Twee	1009 Oliver Avenue	Boston	MA	12889	7098675309
145	Katie	Hernandez	92 Chico Way	Los Angeles	CA	98008	8586667641
225	Daniel	Spode	1923 Silverado Street	Denver	CO	98107	4258879009
145	Katie	Hernandez	92 Chico Way	Los Angeles	CA	98008	8586667641
225	Daniel	Spode	1923 Silverado	Denver	CO	80219	7193343523

6 rows returned in 0.02 seconds
Download

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- 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.

Home
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SQL Workshop
SQL Commands
Schema: US_1350_SQL01_S25

Rows: 10
Save
Run

```
SELECT * FROM copy_f_staffs;
```

Results
Explain
Describe
Saved SQL
History

ID	FIRST_NAME	LAST_NAME	BIRTHDATE	SALARY	OVERTIME_RATE	TRAINING	STAFF_TYPE	MANAGER_ID	MANAGER_BUDGET	MANAGER_TARGET
12	Sue	Doe	01/Jul/1980	10	11.95	-	Order Taker	19	-	-
9	Bob	Miller	19/Mar/1979	10	.75	Grill	Cook	19	-	-
19	Monique	Tuttle	30/Mar/1969	60	-	-	Manager	-	50000	70000

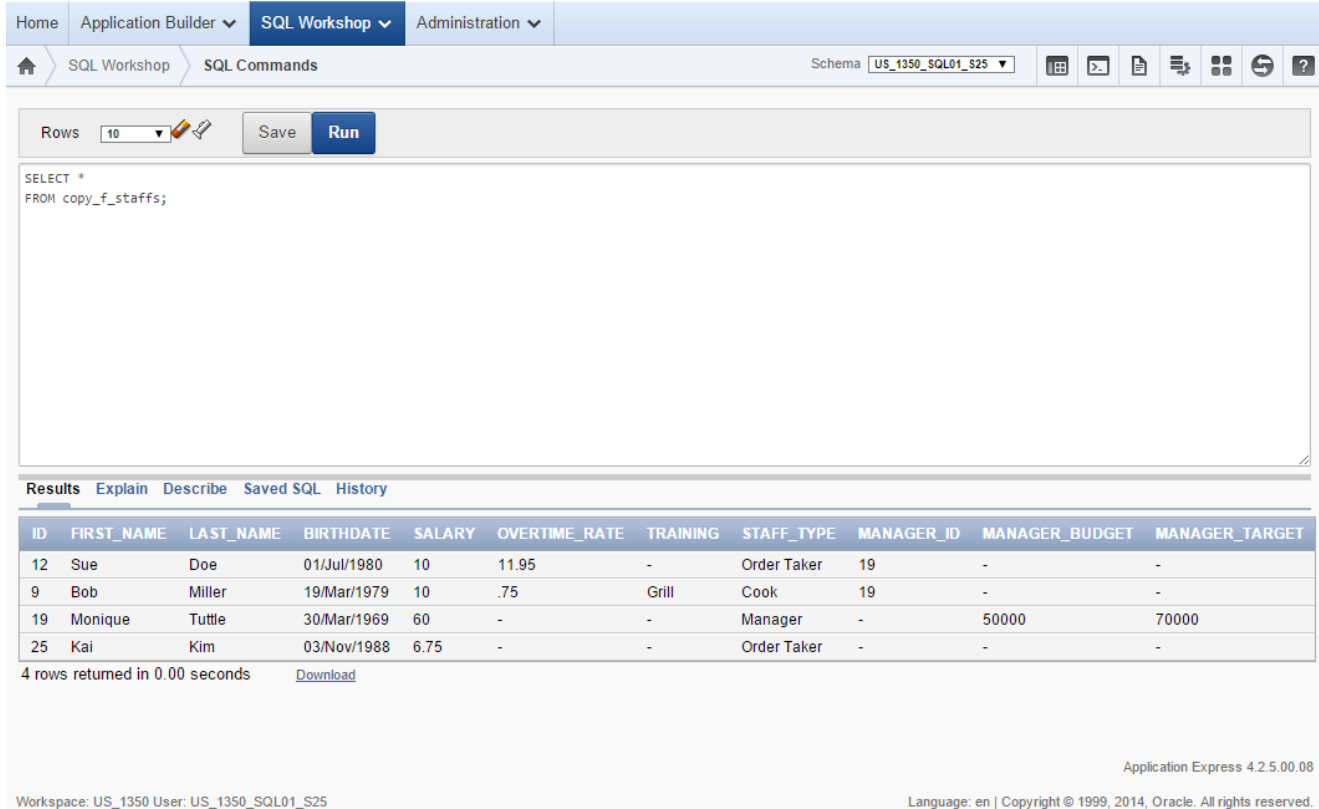
3 rows returned in 0.01 seconds
[Download](#)

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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.

ID	FIRST_NAME	LAST_NAME	BIRTHDATE	SALARY	STAFF_TYPE
25	Kai	Kim	3-NOV-1988	6.75	Order Taker



The screenshot shows the Oracle SQL Workshop interface. The top navigation bar includes 'Home', 'Application Builder', 'SQL Workshop', and 'Administration'. The 'SQL Workshop' tab is active, and the 'SQL Commands' sub-tab is selected. The schema is set to 'US_1350_SQL01_S25'. The SQL editor contains the query: `SELECT * FROM copy_f_staffs;`. The 'Run' button is highlighted. Below the editor, the 'Results' tab is active, displaying a table with 11 columns: ID, FIRST_NAME, LAST_NAME, BIRTHDATE, SALARY, OVERTIME_RATE, TRAINING, STAFF_TYPE, MANAGER_ID, MANAGER_BUDGET, and MANAGER_TARGET. The table contains 4 rows of data. The status bar at the bottom indicates '4 rows returned in 0.00 seconds' and provides a 'Download' link. The footer shows 'Application Express 4.2.5.00.08' and 'Workspace: US_1350 User: US_1350_SQL01_S25'.

ID	FIRST_NAME	LAST_NAME	BIRTHDATE	SALARY	OVERTIME_RATE	TRAINING	STAFF_TYPE	MANAGER_ID	MANAGER_BUDGET	MANAGER_TARGET
12	Sue	Doe	01-Jul-1980	10	11.95	-	Order Taker	19	-	-
9	Bob	Miller	19-Mar-1979	10	.75	Grill	Cook	19	-	-
19	Monique	Tuttle	30-Mar-1969	60	-	-	Manager	-	50000	70000
25	Kai	Kim	03-Nov-1988	6.75	-	-	Order Taker	-	-	-

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.

The screenshot shows the Oracle SQL Workshop interface. At the top, there are tabs for 'Home', 'Application Builder', 'SQL Workshop' (selected), and 'Administration'. Below these, there are sub-tabs for 'SQL Workshop' and 'SQL Commands'. A toolbar shows 'Rows' set to 10, a 'Save' button, and a 'Run' button. The main text area contains the following SQL command:

```
UPDATE copy_f_staffs
SET MANAGER_ID = (
SELECT MANAGER_ID
FROM copy_f_staffs
WHERE FIRST_NAME = 'Sue'
AND LAST_NAME = 'Doe')
WHERE ID = 25;
```

Below the command area, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, showing the output: '1 row(s) updated.' and '0.01 seconds'. At the bottom, it says 'Workspace: US_1350 User: US_1350_SQL01_S25'.

8. Execute the following SQL statement. Record your results. The following error message was shown: `ORA-02292: integrity constraint (US_1350_SQL01_S25.EMP_DEPT_FK) violated - child record found`

```
DELETE from departments
WHERE department_id = 60;
```

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.

Home Application Builder SQL Workshop Administration

SQL Workshop SQL Commands Schema US_1350_SQL01_S25

Rows 10 Save Run

```
SELECT * FROM COPY_F_STAFFS;
```

Results Explain Describe Saved SQL History

ID	FIRST_NAME	LAST_NAME	BIRTHDATE	SALARY	OVERTIME_RATE	TRAINING	STAFF_TYPE	MANAGER_ID	MANAGER_BUDGET	MANAGER_TARGET
12	Sue	Doe	01/Jul/1980	10	11.95	-	Order Taker	19	-	-
9	Bob	Miller	19/Mar/1979	10	.75	Grill	Cook	19	-	-
19	Monique	Tuttle	30/Mar/1969	60	-	-	Manager	-	50000	70000

3 rows returned in 0.00 seconds [Download](#)

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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 emp_history table.

Rows 10 Save Run

```
SELECT * FROM LESSON7_EMP;
```

Results Explain Describe Saved SQL History

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	17/Jun/1987	AD_PRES	24000	-	-	90
205	Shelley	Higgins	SHIGGINS	515.123.8080	07/Jun/1994	AC_MGR	12000	-	101	110
206	William	Gietz	WGIETZ	515.123.8181	07/Jun/1994	AC_ACCOUNT	8300	-	205	110
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29/Jun/2000	SA_MAN	10500	.2	100	80
174	Ellen	Abel	EABEL	011.44.1644.429267	11/May/1996	SA_REP	11000	.3	149	80
178	Kimberely	Grant	KGRANT	011.44.1644.429263	24/May/1999	SA_REP	7000	.15	149	-
124	Kevin	Mourgos	KMOURGOS	650.123.5234	16/Nov/1999	ST_MAN	5800	-	100	50
141	Trenna	Rajs	TRAJS	650.121.8009	17/Oct/1995	ST_CLERK	3500	-	124	50
142	Curtis	Davies	CDAVIES	650.121.2994	29/Jun/1997	ST_CLERK	3100	-	124	50
143	Randall	Matos	RMATOS	650.121.2874	15/Mar/1998	ST_CLERK	2600	-	124	50

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.01 seconds [Download](#)


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Section 7 Lesson 3: DEFAULT Values, MERGE, and Multi-Table Inserts

Try It / Solve It

1. When would you want a DEFAULT value? **DEFAULT values are useful in the event that a new row is inserted and no value for the column is assigned. The default value can be assigned instead of a null value.**
2. Currently, the Global Foods F_PROMOTIONAL_MENUS table START_DATE column does not have SYSDATE set as DEFAULT. Your manager has decided she would like to be able to set the starting date of promotions to the current day for some entries. This will require three steps:
 - a. In your schema, Make a copy of the Global Foods F_PROMOTIONAL_MENUS table using the following SQL statement:
CREATE TABLE copy_f_promotional_menus
AS (SELECT * FROM f_promotional_menus)

Rows  Save Run

create table copy_f_promotional_menus
as (select * from f_promotional_menus);

Results Explain Describe Saved SQL History

Table created.

0.11 seconds

Workspace: US_1350 User: US_1350_SQL01_S25

- b. Alter the current START_DATE column attributes using:

```
ALTER TABLE copy_f_promotional_menus  
MODIFY(start_date DATE DEFAULT SYSDATE)
```

Rows

Save Run

```
alter table copy_f_promotional_menus  
modify(start_date date default sysdate)
```


Results Explain Describe Saved SQL History

Table altered.

0.01 seconds

Workspace: US_1350 User: US_1350_SQL01_S25

- c. INSERT the new information and check to verify the results.
INSERT a new row into the copy_f_promotional_menus table for the manager's new promotion. The promotion code is 120. The name of the promotion is 'New Customer.' Enter DEFAULT for the start date and '01-JUN-2005' for the ending date. The giveaway is a 10% discount coupon. What was the correct syntax used?

Rows  Save Run

```
INSERT INTO copy_f_promotional_menus
VALUES (120, 'New Customer', DEFAULT,
TO_DATE('01-JUN-2005', 'DD-MON-YYYY'),
'10% discount coupon');
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

```
1 row(s) inserted.
```

```
0.01 seconds
```

Workspace: US_1350 User: US_1350_SQL01_S25

3. Allison Plumb, the event planning manager for DJs on Demand, has just given you the following list of CDs she acquired from a company going out of business. She wants a new updated list of CDs in inventory in an hour, but she doesn't want the original D_CDS table changed. Prepare an updated inventory list just for her.
 - a. Assign new cd_numbers to each new CD acquired.
 - b. Create a copy of the D_CDS table called manager_copy_d_cds. What was the correct syntax used?

`CREATE TABLE manager_copy_d_cds`

- c. INSERT into the manager_copy_d_cds table each new CD title using an INSERT statement. Make up one example or use this data: 20, 'Hello World Here I Am', 'Middle Earth Records', '1998' What was the correct syntax used?

`INSERT INTO manager_copy_d_cds`

`VALUES (20, 'Hello World Here I Am', 'Middle Earth Records', '1998')`

- d. Use a merge statement to add to the manager_copy_d_cds table, the CDs from the original table. If there is a match, update the title and year. If not, insert the data from the original table. What was the correct syntax used?

`MERGE INTO manager_copy_d_cds m`

`USING d_cds o`

`ON (m.cd_number = o.cd_number)`

`WHEN MATCHED`

`THEN UPDATE SET m.title = o.title, m.year = o.year`

`WHEN NOT MATCHED`

`THEN INSERT VALUES (o.cd_number, o.title, o.producer, o.year);`

4. Run the following 3 statements to create 3 new tables for use in a Multi-table insert statement. All 3 tables should be empty on creation, hence the WHERE 1=2 condition in the WHERE clause.

`CREATE TABLE sal_history (employee_id, hire_date, salary)`

`AS SELECT employee_id, hire_date, salary`

`FROM employees s`

`WHERE 1=2;`

`CREATE TABLE mgr_history (employee_id, manager_id, salary)`

`AS SELECT employee_id, manager_id, salary`

`FROM employees`

`WHERE 1=2;`

```
CREATE TABLE special_sal (employee_id, salary)
AS SELECT employee_id, salary
   FROM employees
  WHERE 1=2;
```

Once the tables exist in your account, write a Multi-Table insert statement to first select the employee_id, hire_date, salary, and manager_id of all employees. If the salary is more than 20000 insert the employee_id and salary into the special_sal table. Insert the details of employee_id, hire_date, and salary into the sal_history table. Insert the employee_id, manager_id, and salary into the mgr_history table.

You should get a message back saying 39 rows were inserted. Verify you get this message and verify you have the following number of rows in each table:

Sal_history: 19 rows

Mgr_history: 19 rows

Special_sal: 1

The screenshot shows the Oracle SQL Developer interface. At the top, there is a toolbar with a 'Rows' dropdown set to 1000, a 'Save' button, and a 'Run' button. Below the toolbar is a text area containing the following SQL code:

```
insert all
when salary > 20000 then into special_sal values(employee_id, salary)
else
into sal_history values(employee_id, hire_date, salary)
into mgr_history values(employee_id, manager_id, salary)

select employee_id, hire_date, salary, manager_id
from employees
```

Below the text area is a tabbed interface with 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History' tabs. The 'Results' tab is selected, showing the output of the SQL statement:

```
39 row(s) inserted.

0.02 seconds
```

At the bottom of the interface, the workspace information is displayed: 'Workspace: US_1350 User: US_1350_SQL01_S25'.