

Database Programming with SQL 12-1: INSERT Statements

Practice Activities

Objectives

- Give examples of why it is important to be able to alter the data in a database
- Construct and execute INSERT statements that insert a single row using a VALUES clause
- Construct and execute INSERT statements that use special values, null values, and date values
- Construct and execute INSERT statements that copy rows from one table to another using a subquery

Vocabulary

Identify the vocabulary word for each definition below.

User	Someone doing "real work" with the computer, using it as a means rather than an end			
transaction	Consists of a collection of DML statements that form a logical unit of work.			
explicit	Fully and clearly expressed; leaving nothing implied			
INSERT INTO	Adds a new row to a table			

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.

when reserving or booking a room/flight and when storing login information

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.

SELECT * FROM copy_d_cds;

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

VALUES(98, 'Holiday Tunes for All Ages', 'Tunes are Us', '2004');

INSERT INTO copy_d_cds(cd_number,title,producer,year) INSERT INTO copy_d_cds(cd_number,title,producer,year) VALUES(99, 'Party Music', 'Old Town Records', '2004'); VALUES(100, 'Best of Rock and Roll', 'Old Town Records', '2004'); Copyright © 2020, Oracle and/or its affiliates. All rights reserved. Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

CREATE TABLE copy_d_songs DESCRIBE copy_d_songs; AS (SELECT * FROM d_songs); DESCRIBE d_songs;

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.

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

SELECT * FROM copy_d_songs ; INSERT INTO copy_d_songs INSERT INTO copy_d_songs VALUES(52, 'Surfing Summer', NULL, NULL, 12); VALUES(53, 'Victory Victory', '5 min', NULL, 12);

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	dahisha@harbor.net	
6689	Nick	Neuville	9048953049	nnicky@charter.net	

AS (SELECT * FROM d_clients); DESCRIBE d_clients;

SELECT * FROM copy d clients;

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.

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

```
CREATE TABLE copy_d_events
                              DESCRIBE copy_d_events;
                                                          SELECT * FROM d events:
AS ( SELECT * FROM d_events);
                              DESCRIBE d_events;
                                                          SELECT * FROM copy d events:
```

6. Create a table called rep email using the following statement:

CREATE TABLE rep_email (

id NUMBER(3) CONSTRAINT rel id pk PRIMARY KEY.

first name VARCHAR2(10),

last name VARCHAR2(10),

email_address VARCHAR2(10))

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

```
4. INSERT INTO copy_d_clients(client_number,first_name,last_name,phone,email)
VALUES(6655,'Ayako','Dahish',3608859030,'dahisha@harbor.net');
INSERT INTO copy d clients(client number, first name, last name, phone, email)
```

VALUES(6689, 'Nick', 'Neuville', 3608859030, 'nnicky@charter.net');

5.INSERT INTO copy_d_events(id,name,event_date,description,cost,venue_id,package_code,theme_code,client_number) VALUES(110,'Ayako Anniversary',TO_DATE('07-Jul-2004','dd-Mon-yyyy'),'Party for 50, sixties dress, decorations',0,245,79,240,6655);

INSERT INTO copy_d_events(id,name,event_date,description,cost,venue_id,package_code,theme_code,client_number) VALUES(115, 'Neuville Sports Banquet', TO DATE('09-Sep-2004', 'dd-Mon-yyyy'), 'Barbecue at residence, college alumni, 100 people',0,315,87,340,6689);

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6. DESCRIBE rep_email;

6. INSERT INTO rep_email(id, first_name, last_name, email_address) SELECT employee_id, first_name, last_name, email DESCRIBE employees;

FROM employees