

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.

Создание и изменение логинов и паролей в базе данных

Хранение данных о сообщениях

1. 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 |

INSERT INTO copy\_d\_cds(cd\_number,title,producer,year)

VALUES(97,'Celebrate the Day','R & B Inc.','2003');

INSERT INTO copy\_d\_cds(cd\_number,title,producer,year)

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

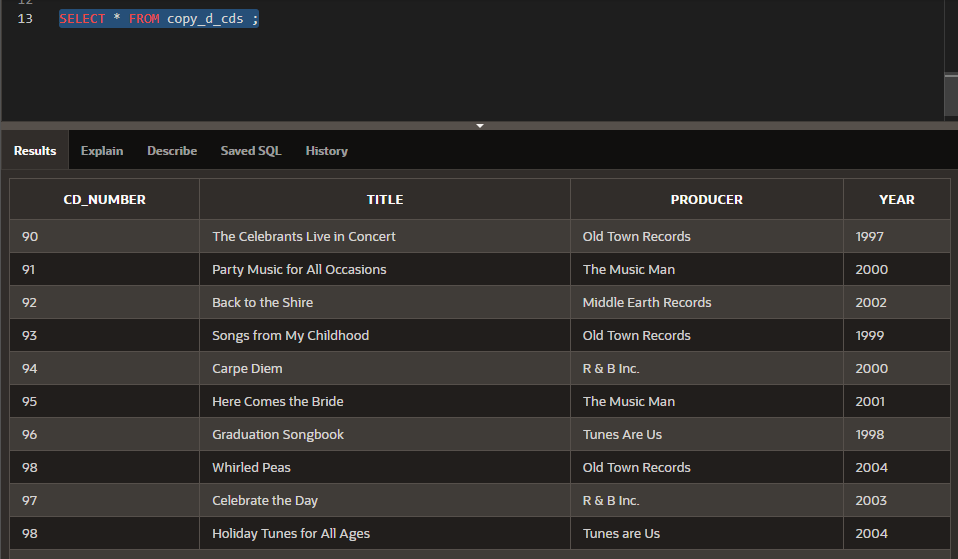
INSERT INTO copy\_d\_cds(cd\_number,title,producer,year)

VALUES(99,'Party Music','Old Town Records','2004');

INSERT INTO copy\_d\_cds(cd\_number,title,producer,year)

VALUES(100,'Best of Rock and Roll','Old Town Records','2004');

SELECT \* FROM copy\_d\_cds ;



1. 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 |

CREATE TABLE copy\_d\_songs

AS ( SELECT \* FROM d\_songs);

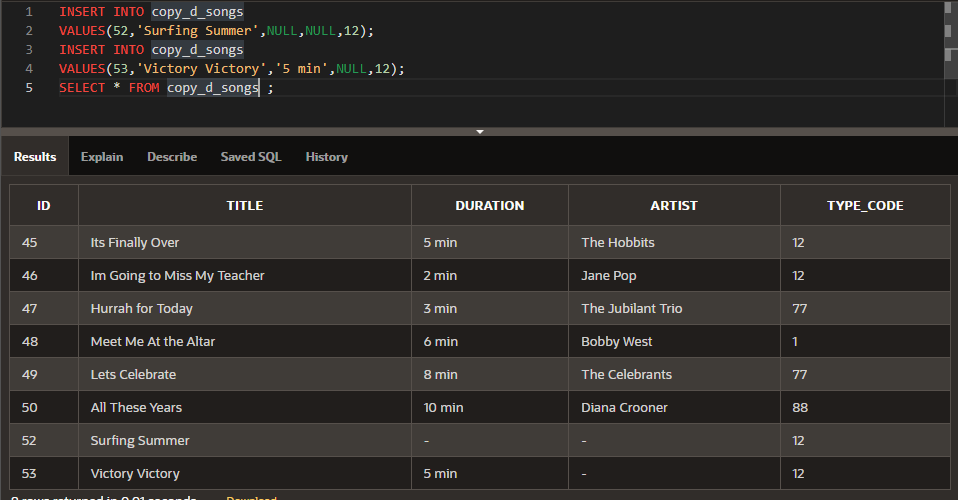
INSERT INTO copy\_d\_songs

VALUES(52,'Surfing Summer',NULL,NULL,12);

INSERT INTO copy\_d\_songs

VALUES(53,'Victory Victory','5 min',NULL,12);

SELECT \* FROM copy\_d\_songs ;



1. 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](mailto:dahisha@harbor.net) |
| 6689 | Nick | Neuville | 9048953049 | [nnicky@charter.net](mailto:nnicky@charter.net) |

CREATE TABLE copy\_d\_clients

AS ( SELECT \* FROM d\_clients);

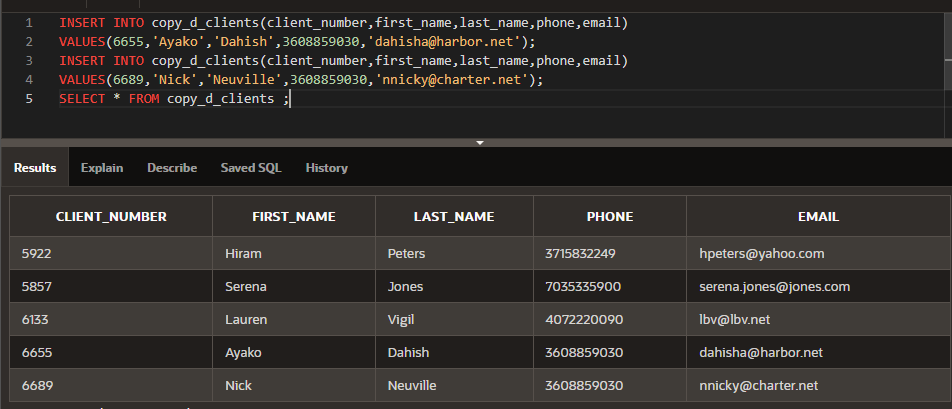
INSERT INTO copy\_d\_clients(client\_number,first\_name,last\_name,phone,email)

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');

SELECT \* FROM copy\_d\_clients ;



1. 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\_ 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 | 09-  Sep- 2004 | Barbecue at residence, college alumni, 100 people |  | 315 | 87 | 340 | 6689 |

CREATE TABLE copy\_d\_events

AS ( SELECT \* FROM d\_events);

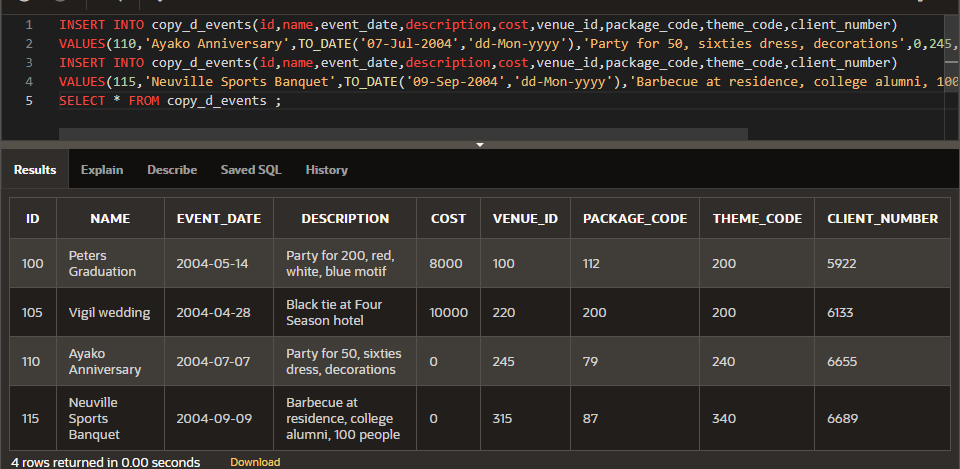
INSERT INTO copy\_d\_events(id,name,event\_date,description,cost,venue\_id,package\_code,theme\_code,client\_number)

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);

SELECT \* FROM copy\_d\_events ;



1. 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))

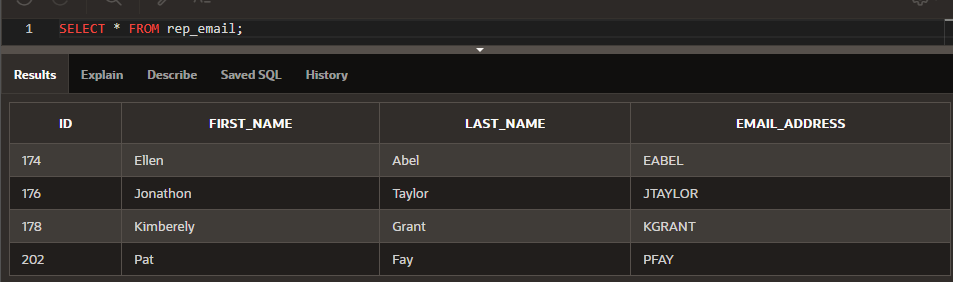
Populate this table by running a query on the employees table that includes only those employees who are REP’s.

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' ESCAPE '\';



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