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.

	Someone doing "real work" with the computer, using it as a means rather than an end
	Consists of a collection of DML statements that form a logical unit of work.
	Fully and clearly expressed; leaving nothing implied
	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.

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

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

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

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_Date	Description	Cost	Ven-ue_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

6. Create a table called rep_email using the following statement:
   CREATE TABLE rep_email (
   id NUMBER(2) 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.