 



Database Programming with SQL 2-2: Limit Rows Selected Practice Activities

# Objectives

* Apply SQL syntax to restrict the rows returned from a query
* Demonstrate application of the WHERE clause syntax
* Explain why it is important, from a business perspective, to be able to easily limit data retrieved from a table
* Construct and produce output using a SQL query containing character strings and date values

# Vocabulary

Identify the vocabulary word for each definition below.

|  |  |
| --- | --- |
| Where Clause | Restricts the rows returned by a select statement |
| Comparision Operator | Compares one expression to another value or expression |

# Try It / Solve It

1. Using the Global Fast Foods database, retrieve the customer’s first name, last name, and address for the customer who uses ID 456.

SELECT first\_name as "first name", last\_name as "last name", address || ', ' || city || ', ' || state || '-' || zip || CHR(10) || '(Phone-' || phone\_number || ')'  as "address"

FROM f\_customers

WHERE id = 456;

1. Show the name, start date, and end date for Global Fast Foods' promotional item “ballpen and highlighter” giveaway.

SELECT name, start\_date as "start date", end\_date as "end date"

FROM f\_promotional\_menus

WHERE give\_away = 'ballpen and highlighter';

1. Create a SQL statement that produces the following output:

|  |
| --- |
| Oldest |
| The 1997 recording in our database is The Celebrants Live in Concert |

SELECT 'The ' || year ||' recording in our database is '|| title  as "Oldest"

FROM d\_cds

WHERE year = (SELECT MIN(year) FROM d\_cds);

1. The following query was supposed to return the CD title “Carpe Diem" but no rows were returned. Correct the mistake in the statement and show the output.

SELECT producer, title FROM d\_cds

WHERE title = 'Carpe Diem' ;

1. The manager of DJs on Demand would like a report of all the CD titles and years of CDs that were produced before 2000.

SELECT title, year

FROM d\_cds

WHERE year < 2000;

1. Which values will be selected in the following query?

SELECT salary FROM employees

WHERE salary < = 5000;

a. 5000

b. 0 - 4999

c. 2500

d. 5

**For the next three questions, use the following table information:**

TABLE NAME: students COLUMNS:

studentno NUMBER(6) fname VARCHAR2(12)

lname VARCHAR(20) sex CHAR(1)

major VARCHAR2(24)

1. Write a SQL statement that will display the student number (studentno), first name (fname), and last name (lname) for all students who are female (F) in the table named students.

SELECT studentno as "student number", fname as "first name", lname as "last name"

FROM students

WHERE sex = 'F';

1. Write a SQL statement that will display the student number (studentno) of any student who has a PE major in the table named students. Title the studentno column Student Number.

SELECT studentno as "Student Number"

FROM students

WHERE major = 'PE';

1. Write a SQL statement that lists all information about all male students in the table named students.

SELECT \*

FROM students

WHERE sex = 'M';

1. Write a SQL statement that will list the titles and years of all the DJs on Demand CDs that were not produced in 2000.

SELECT title, year

FROM d\_cds

WHERE year != 2000;

1. Write a SQL statement that lists the Global Fast Foods employees who were born before 1980.

SELECT \*

FROM f\_staffs

WHERE birthdate  <  '01-JAN-1980';

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