

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
Comparison Operators	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, LAST_NAME, ADDRESS  
FROM F_CUSTOMERS  
WHERE ID = 456
```

2. Show the name, start date, and end date for Global Fast Foods' promotional item "ballpen and highlighter" giveaway.

```
SELECT NAME, START_DATE, END_DATE  
FROM F_PROMOTIONAL_MENUS  
WHERE GIVE_AWAY= 'ballpen and highlighter'
```

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

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

joh de tot am scris

4. 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 produce, title  
FROM d_cds  
WHERE title = 'carpe diem' ;
```

'Carpe Diem' case sensitive

5. 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
FROM D_CDS
WHERE YEAR<2000
```

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

```
SELECT salary
FROM employees
WHERE salary <= 5000;
```

- a. 5000
- b. 0 - 4999 all of them(or a and b)
- 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)

7. 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,fname,lname
FROM students
WHERE sex = 'F'
```

8. 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'
```

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

```
SELECT *
FROM student
WHERE sex='M'
```

10. 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
```

11. 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'
```