Vocabulary

1. A command that suppresses duplicates
2. Links two columns together to form one character data column
3. A group of character data
4. An SQL plus command that displays the structure of a table restricts the rows returned by a select statement
5. Compares one expression to another value or expression
6. This option identifies that the escape characters should be interpreted literally
7. Condition tests for null values
8. Displays rows based on a range of values
9. Including the specified limits and the area between them; the numbers 1-10, inclusive
10. Selects rows that match a character pattern
11. Tests for values in a specified list of values

General questions:

1. Which columns can be null in the JOBS table?
2. In the arithmetic expression salary\*12 - 400, which operation will be evaluated first?
3. Using SQL to choose the columns in a table uses which capability?

a. selection

b. projection

c. partitioning

d. join

4. SELECT last\_name AS "Employee". The column heading in the query result will appear as:

a. EMPLOYEE

b. employee

c. Employee

d. "Employee:

5. Which statement below will likely fail?

a. SELCT \* FROM employees;

b. Select \* FROM employees;

c. SELECT \* FROM EMPLOYEES;

d. SelecT\* FROM employees;

6. 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

7. Which statement(s) are valid?

a. WHERE quantity <> NULL;

b. WHERE quantity = NULL;

c. WHERE quantity IS NULL;

d. WHERE quantity != NULL;

Write and test SQL statements that answer the following questions:

1. List employee names and email addresses
2. List employees by first name and last name in a column called ‘Full Name’ followed by their phone number in a column called ‘Phone Number”
3. Return each employee’s last name, salary and salary with a 5% raise.
4. Which employees were hired before 1999?
5. Which employees are Sales Reps? (SA\_REP)
6. What is the department name for department 60?
7. Which department does not have a manager assigned?
8. Which departments are NOT at location 1700?
9. Which employees have salaries between 2000 and 3000 (inclusive)?
10. List the employees whose job ID’s begin with ‘SA’
11. List employees who last names end with ‘s’.
12. List employees who report to manager 124 or 149

Using the following table, answer the questions below:

TABLE NAME: students

COLUMNS:

studentno NUMBER(6)

fname VARCHAR2(12)

lname VARCHAR(20)

gender 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.
2. 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.
3. Write a SQL statement that lists all information about all male students in the table named students.