

Database Programming with SQL 13-2: Using Data Types Practice Solutions Vocabulary

Directions: Identify the vocabulary word for each definition below.

INTERVAL YEAR TO MONTH	Allows time to be stored as an interval of
	years and months
TIMESTAMP WITH LOCAL	when a column is selected in a SQL state-
TIMEZONE	ment the time is automatically converted to
	the user's
	timezone
BLOB	Binary large object data up to 4 gigabytes
TIMESTAMP WITH TIMEZONE	stores a time zone value as a displacement
	from
	Universal Coordinated Time or UCT
INTERVAL DAY TO SECOND	Allows time to be stored as an interval of
	days to
	hours, minutes, and seconds
CLOB	Character data up to 4 gigabytes
TIMESTAMP	Allows the time to be stored as a date with
	fractional seconds

Try It / Solve It

- 1. Using the examples provided in Tell Me/Show Me, create each of the three time-zone tables.
 - a. TIMESTAMP WITH LOCAL TIME ZONE
 - b. INTERVAL YEAR TO MONTH
 - c. INTERVAL DAY TO SECOND





LONDON

NEW YORK





SHANGHAI

Solution:

Syntax for Question 1. Answers will vary.

1a. CREATE TABLE time_example (order_date TIMESTAMP WITH LOCAL TIME ZONE); INSERT INTO time_example VALUES('15/NOV/2003 09:34:28 AM'); SELECT * FROM time_example;

1b. CREATE TABLE time_example2 (loan_duration INTERVAL YEAR (3) TO MONTH); INSERT INTO time_example2 (loan_duration) VALUES (INTERVAL '120' month(3)); SELECT TO_CHAR(sysdate+loan_duration, 'dd-mon-yyyy') FROM time example2;

1c. CREATE TABLE time_example3 (day_duration INTERVAL DAY (3) TO SECOND); INSERT INTO time_example3 (day_duration) VALUES (INTERVAL '180' day(3)); SELECT sysdate + day_duration "Half Year" FROM time_example3;

- 2. Execute a SELECT * from each table to verify your input.
- 3. Give 3 examples of organizations and personal situations where it is important to know to which time zone a date-time value refers.

Solution:

Answers may vary – Airlines and departure and arrival times. Phoning home from abroad – knowing whether you will disturb someone's sleep! Investment banking – knowing when other markets are opening and closing.