## **Chapter 8 Quiz**

Due Oct 31 at 11:59pm Points 100 Questions 25 Time Limit None Allowed Attempts 2

## **Attempt History**

	Attempt	Time	Score	
KEPT	Attempt 2	4 minutes	100 out of 100	
LATEST	Attempt 2	4 minutes	100 out of 100	
	Attempt 1	14 minutes	24 out of 100	

(!) Correct answers will be available on Nov 30 at 12am.

Score for this attempt: 100 out of 100

Submitted Oct 31 at 4:40pm This attempt took 4 minutes.

Question 1	4 / 4 pts
How many types are possible for elements of a JSON docume	ent?
<ul><li>6</li></ul>	
Zero - JSON elements do not have a type	
Unlimited - JSON element types are user-defined	
O 3	

Question 2 4 / 4 pts

Eleme	ents can be nested in
	neither XML nor JSON
	both XML and JSON
	JSON but not XML
	XML but not JSON

Question 3	4 / 4 pts
The PosgreSQL ARRAY type is an example of a type.	
object	
semantic	
simple	
collection	

Question 4	4 / 4 pts
What is the difference between the ENUM type and the SET ty	pe?
Each ENUM value has exactly one element, each SET value can homany elements.	ave
ENUM has a character base type, SET has a numeric base type	Э.

ENUM values are compressed, SET values are not.
ENUM and SET types are equivalent.

Question 5	4 / 4 pts
MONEY is an example of a type.	
character	
integer	
semantic	
binary	

Question 6	4 / 4 pts
An R-tree has a index with index entries containing	
multi-level, column values	
multi-level, MBRs	
○ single-level, MBRs	
o single-level, column values	

Question 7 4 / 4 pts

Elements of the type can be repeated and are not ordered.	
SET	
O ARRAY	
O LIST	
MULTISET	

Question 8	4 / 4 pts
In data, each element is named, and element types are explicitly declared.	not
unstructured	
O complex	
semistructured	
structured	

Question 9	4 / 4 pts
In MySQL, a column has a SET type with 16 possi many bytes does each column value require?	ble elements. How
8	
<ul><li>2</li></ul>	

O 1				
O 4				

Question 10	4 / 4 pts
In Oracle Database, the object type	
can define an entire table only	
can define either an individual column or an entire table	
can define an individual column only	
is not supported	

Question 11 4 / 4 pts

## What is wrong with the syntax of this XML?

```
<Menu>
  <Item>
      <Name>Green salad</Name>
      <Description>Lettuce, tomatoes, green peppers</Description>
      <Price>7.00</Price>
   </Item>
   <Item>
      <Name>Greek salad</Name>
      <Description>Cucumbers, tomatoes, onions, feta cheese/Description>
      <Price>8.50</Price>
   </Item>
   <Item>
      <Name>Cobb salad</Name>
      <Description>Eggs, bacon, lettuce, tomatoes, green onions/Description
      <Price>11.00</Price>
   </Item>
</Menu>
```

Tag names cannot be capitalized.
XML cannot contain multiple tags with the same name.
Tags cannot be nested inside other tags.
The XML syntax is correct.

## Which of the following does NOT appear in the Oracle Database's CREATE TYPE statement below? CREATE TYPE NameType AS OBJECT ( ... ) Property names and types Function body Function names and return types Procedure names and parameters

Question 13	4 / 4 pts
In MySQL, spatial values numeric values.	
are the same as	

	be converted to numeric values using spatial functions prior to earing with
O ca	annot be compared to
O ca	an be compared directly with

Question 14	4 / 4 pts
Geographic data is	
another name for geometric data	
defined with reference to the surface of the earth	
onot supported in MySQL	
any two-dimensional spatial data	

Question 15	4 / 4 pts
In an object-programming language, a class is like a, and is like a database	d an object
o schema, instance	
composite type, row	
table, column	

object, query

Question 16	4 / 4 pts
A complex type	
cannot be used in a join query	
is defined by the user, not the database system	
has a richer internal structure than a simple type	
has multiple values per table cell, from the perspective of the databasystem	ase

Question 17	4 / 4 pts
Which type is complex?	
JSON	
ODATE	
O BLOB	
O TEXT	

Question 18 4 / 4 pts

Select the correct WKT syntax for a polygon.
O POLYGON( (0 0) (20 10) (10 20) (0 0) )
O POLYGON(0 0; 20 10; 10 20; 0 0)
O POLYGON(0 0, 20 10, 10 20, 0 0)
POLYGON( (0 0, 20 10, 10 20, 0 0) )

Question 19	4 / 4 pts
How many bytes does POINT(18.5 -20) require in internal MyS	SQL format?
O 32	
O 20	
24	
O 16	

Question 20	4 / 4 pts
A user-defined type is defined in terms of a type.	
simple	
base	

complex			
built-in			

Question 21	4 / 4 pts
An object-relational database is	
an object database that supports subtables and supertables	
a software layer between a relational database and an object-orien programming language	ted
a relational database that supports an object type	
an object-oriented programming language with database capabilities as transaction management	es such

Question 22	4 / 4 pts
MySQL stores JSON values as	
an internal binary format	
a TEXT type	
a VARCHAR type	
○ XML values	

Question 23	4 / 4 pts
One goal of object-relational database technology is to	
reduce data storage space	
simplify database programming	
<ul> <li>simplify database administration</li> </ul>	
improve query response time	

Question 24	4 / 4 pts
In two dimensions, a minimum bounding rectangle is the	_?
the rectangular area aligned with the X- and Y-axes that contains a values	all spatial
the minimum area of a polygon or multipolygon	
the smallest rectangle aligned with the X- and Y-axes that contains spatial value	; a
the sum of the spatial values contained within a rectangle	

Question 25	4 / 4 pts
A standardized spatial reference system is identified with a/an	
standard coordinate system	
O data type	
SRID	
latitude and longitude	

Quiz Score: 100 out of 100