Question 1 5 / 5 pts
Attributes are the smallest division of data in ER diagram.  True
C False
Question 2 5 / 5 pts Which level of abstraction is the ER model most concerned with?  External
<b>⊡</b> Conceptual
C Physical
C Internal
ER model is part of the conceptual stage of database design, which provides a high-level description of data
Question 3 5 / 5 pts Which is created first when designing a database, the ER model or the schema?  ER model
C Schema
It doesn't matter - they're both ways to create conceptual models

Question 4 5 / 5 pts
In the Entity-Relationship Model, relationships can have attributes.  True
C False
Question 5
10 / 10 pts Which of the following is NOT a design choice when using the ER model?  Entity vs. attribute
Entity vs. relationship
Binary relationship vs. ternary relationship vs. n-ary relationship
None of the above
ER modeling is subjective. A lot of data can be captured using the ER model, but there are also many constraints that cannot be shown. A given scenario can often be modeled in many ways.
Question 6 10 / 10 pts
Consider the following relationship involving two entities, students and classes:
A student can take many classes. A class can be taken by many students.
How many tables can be used to represent this relationship in a schema?  1

2
<b>©</b>
3
All of the above
Question 7
10 / 10 pts
The DELETE command may violate which constraint?
Domain constraint
Key constraint
Referential integrity
All of the above
Technically, it could also violate a key constraint if a key column in table A is allowed to be null, and deleting a row from related table B sets that key field in A to null (i.e. ON DELETE SET NULL) and there is already another row in table A with a null value in that key column. But, you won't allow a key column to be null so no need to worry about that!
Question 8
10 / 10 pts The INSERT command may violate which constraint?
The INSERT command may violate which constraint?
Domain constraint
Key constraint
Referential integrity

All of the above
Question 9 5 / 5 pts
Which of the following is <u>not</u> a SQL command?  insert
find
update
delete
Question 10 5 / 5 pts
Consider the following relationships:
<ul> <li>A student must be enrolled in at least one class.</li> <li>A class can have many students.</li> </ul>
Which of the following is/are true?
A student can be associated to 0 classes
A student can be associated to 1 class
A student can be associated to 2 classes

All of the above
Question 11 10 / 10 pts
In the following schema, what type of relationship exists between <i>orders</i> and <i>products</i> ?
C One-to-many
Cone-to-one
Many-to-many
Many-to-one
Question 12 10 / 10 pts Consider the database of a retail company that wants to track information about its sales and customers. The company would like to regularly produce reports showing data on purchases made by customers in each age group. Which of the following are good choices of attribute(s) to represent the age of the <i>customer</i> entity in the database?
`birthdate` varchar(8)
age` int
birthdate` date

`month` int,
`day` int,

`year` int

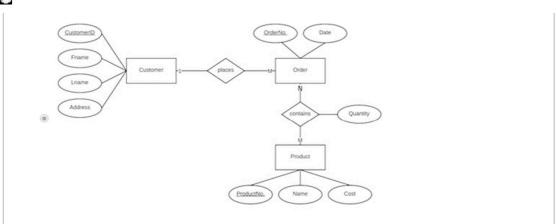
None of the above; it's rude to ask for their customers' ages

## **Question 13**

## 10 / 10 pts

Which ER diagram best represents the scenario where a customer can order products from an online retailer?

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Quiz Score: 100 out of 100