A4

(!) This is a preview of the published version of the quiz

Started: Jul 2 at 12:16am

Quiz Instructions

This test has a time limit of 75 mins.

This test will save and submit automatically when the time expires.

Once started, this test must be completed in one sitting. Do not leave the test before clicking Save and Submit.

Assignment 4 preview.pdf

premiere.sql

| Question 1 | 4 pts |
|-------------------------------------------------------------------------|-------|
| An entity supertype | |
| is used to minimize the likelihood of redundant relationships | |
| is a generic entity type that is related to one or more entity subtypes | |
| minimize the number of nulls | |
| contains the common characteristics | |

| Question 2 | 4 pts |
|------------------------------------------------|-------|
| The entity subtype will store the data that is | |
| ○ inherited by all subtypes | |
| onot unique to the subtype | |
| ○ unique to the subtype | |
| ○ calculated from related attributes | |
| | |

| Question 3 | 4 pts |
|-----------------------------------------------------------------------------------------------------------|-------|
| A specialization hierarchy depicts the | |
| the process of identifying a higher-level, more generic entity supertype from lower-level entity subtypes | |
| opresentation of multiple entities and relationships in the ERD | |
| Odescription of the extent to which attribute are independent of one another Selected | |
| arrangement of higher-level entity supertypes and lower-level entity subtypes | |

Question 4

4 pts

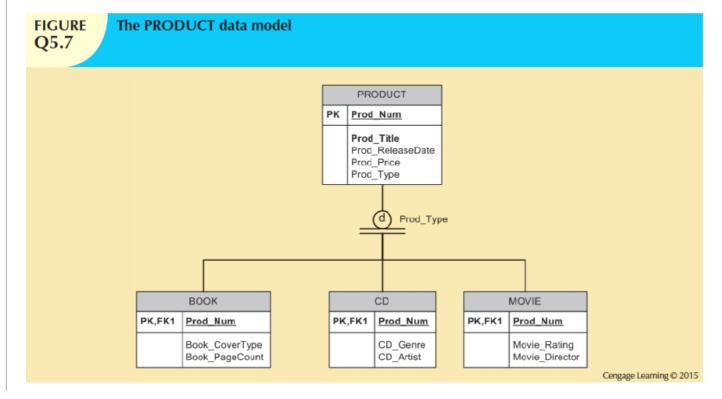
| A subtype discriminator | |
|-----------------------------------------------------------------------------------------------------------------------------------|-------|
| is the attribute(s) in the supertype entity that is used to determine to which entity subtype the supertype occurrence is related | |
| Odescribes the relationship between members of the subtype | |
| Odetermines whether every occurrence in the supertype must participate as a member of a subtype | |
| oprovides a detailed accounting of all tables found within the database | |
| | |
| Question 5 | 4 pts |
| Overlapping subtypes | |
| our are subtypes that contain unique subsets of the supertype entity set | |
| ○ are subgrouping of the entities | |
| output each entity instance of the supertype may appear in more than one subtype | |
| ○ are entities whose existence depends on some other entity type | |
| | |
| Question 6 | 4 pts |
| Partial completeness means | |

| our every subtype occurrence must be a member of at least one supertype |
|-------------------------------------------------------------------------|
| onot every supertype occurrence is a member of a subtype |
| oevery supertype occurrence must be a member of at least one subtype |
| onot every subtype occurrence is a member of a supertype |

Question 7 4 pts

According to the data model (Fig. Q5.7), is it required that every entity instance in the **PRODUCT** table be associated with an entity instance in the **CD** table? Why or why not? Please select the **correct** statement.

Hint: review disjoint vs. overlapping constraints, and completeness constraint (partial vs. total).

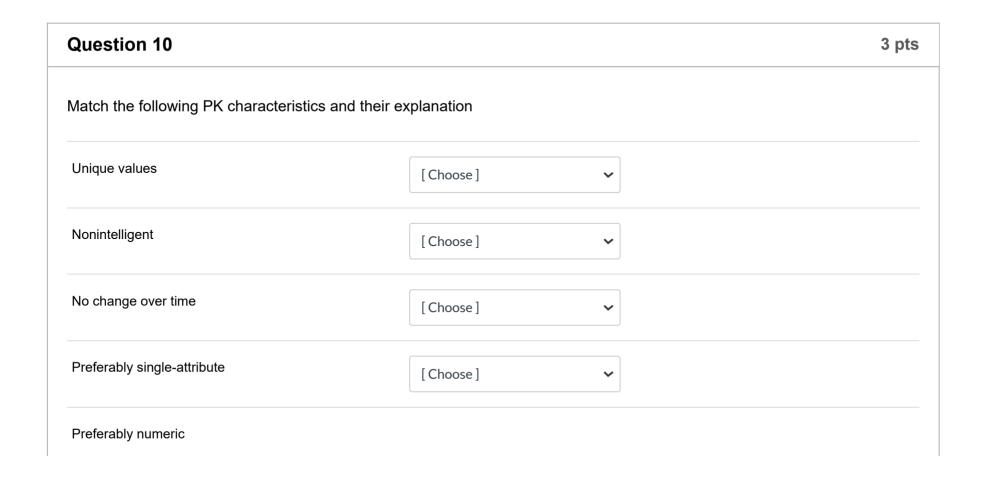


| | ness constraint indicates that every instance in the supertype (PRODUCT) must be associated with cubtypes. Since the subtypes are designated as disjoint, or exclusive, then every row in the supertype | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| with a row in only one s | | s is associated |
| ○ No. With overlapping s | ubtypes, every row in the supertype is associated with a row in only one subtype. | |
| ○ No. The subtype discrir | ninator is not required in this model. | |
| | | |
| Question 8 | | 4 pt |

| Question o | 4 pts |
|-----------------------------------------------------------|-------|
| List all of the attributes of a movie based on Fig. Q5.7. | |
| ☐ Prod_Num | |
| ☐ Prod_Title | |
| ☐ Prod_ReleaseDate | |
| ☐ Prod_Price | |
| ☐ Prod_Type | |
| ☐ Movie_Rating | |
| ☐ Movie_Director | |

Question 9

| ls it possible for a bool (based on Fig. Q5.7.) | k to appear in the BOOK table without appearing in the PRODUCT table? Why or why not, explain? |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------|
| ○ Yes. There is no spec | cial relationship between the BOOK table and the PRODUCT table. |
| ○ Yes. This is not a spe | cialization hierarchy. |
| ○ No. Subtypes can on | nly exist within the context of a supertype. |
| ○ No. In a specialization | n hierarchy supertypes and subtypes are independent of each other. |



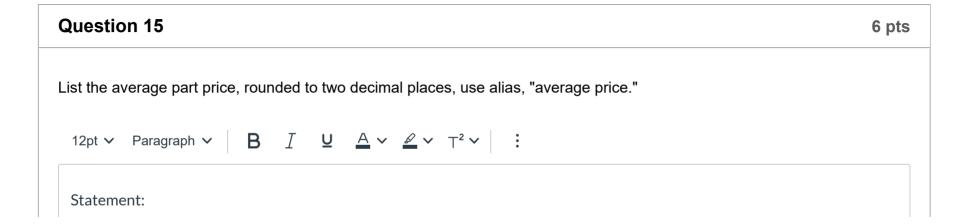


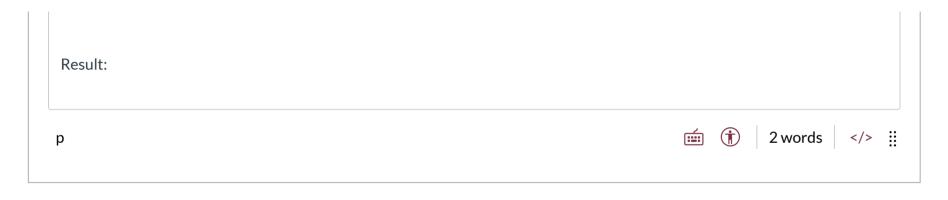
| Question 11 | 3 pts |
|----------------------------------------------------------------------------------------------------------------------------|-------|
| Generally, it is best *not* to use composite primary keys. However, if they are used, they can be useful as identifiers of | f |
| composite entities, where the primary key from each parent entity resolves a M:N relationship | |
| weak entities, where the weak entity has a weak identifying relationship with the parent entity | |
| composite entities, where each primary key combination is not allowed in the M:N relationship | |
| weak entities, where the weak entity has a strong identifying relationship with the parent entity | |

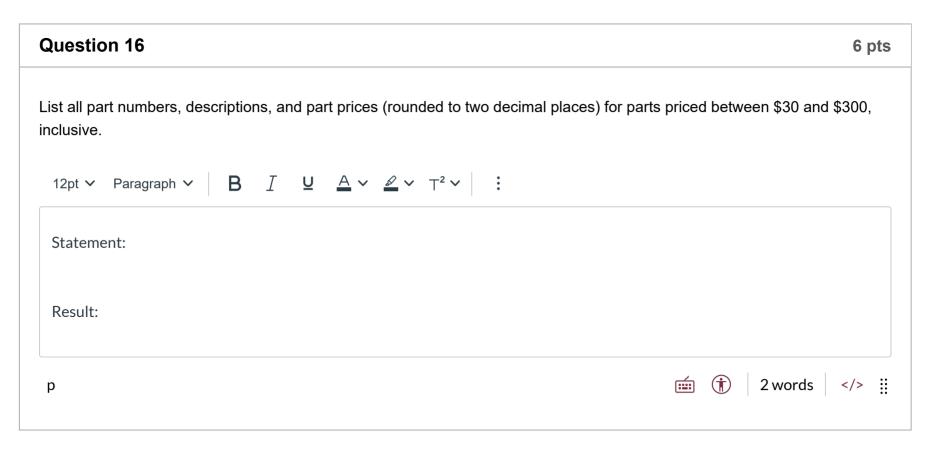
| Question 12 | 3 pts |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| When implementing a 1:1 relationship, where should you place the foreign key if one side is mandatory and one side is optional? Should the foreign key be mandatory or optional? | i |
| ☐ Place the PK of the entity on the mandatory side in the entity on the optional side as a FK | |
| ☐ Place the FK of the entity on the mandatory side in the entity on the optional side as a PK | |

| ☐ make the FK mandatory | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| make the FK optional | |
| | |
| Question 13 | ts |
| Given the following business scenario, create a Crow's Foot ERD using a specialization hierarchy if appropriate. | |
| Two-Bit Drilling Company keeps information on employees and their insurance dependents: | |
| Each employee has an employee number, name, date of hire, and title. | |
| • If an employee is an inspector, then the date of certification and the renewal date for that certification should also be recorded in the system. | |
| For all employees, the Social Security number and dependent names should be kept. | |
| All dependents must be associated with one and only one employee. Some employees will not have dependents, while others will have many dependents. | |
| Some employees will not have dependents, while others will have many dependents. | |
| Note: | |
| • You must indicate the subtype discriminator , disjoint/overlapping , and partial/total completeness constraint , by using a textbox with text stating the designations. | |
| Two records in Employee table, one record in dependent table, one record in inspector table. | |
| Please upload a .mwb file! | |
| | |
| | |
| Upload Choose a File | |
| | |
| | |

Question 14 6 pts Use the Premiere script to create your SQL statements, then attach both SQL statements and guery results. For all SQL statement guestions (14-19), please list **SQL commands** (4pts) with the **query result sets** (2pts) in your answer! List the largest customer balance, use alias, "largest balance." 12pt \vee Paragraph \vee B I \cup \triangle \vee \square \square : Statement: Result: 2 words | </> :: р

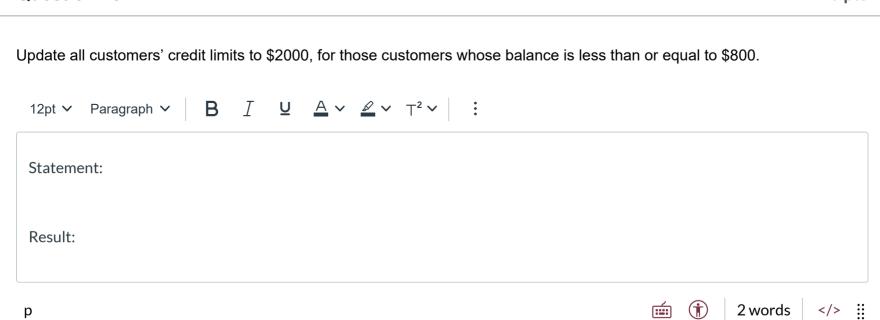








Remove order numbers between 12491 and 12498, inclusive, in one statement; 12pt \vee Paragraph \vee B I $\underline{\cup}$ $\underline{\wedge}$ \vee $\underline{\vee}$ \vee \top^2 \vee Statement: Result: 2 words </> р **Question 18** 6 pts Update all customers' credit limits to \$2000, for those customers whose balance is less than or equal to \$800.



Question 19 6 pts Add three records to the order line table, in one statement, with the following values: (12500, 'AX12',10,21.99) (12500, 'CB03', 10, 10.99) (12504, 'CX11',10,24.99) 12pt \vee Paragraph \vee B I U $A \vee A \vee T^2 \vee$: Statement: Result: p

Saving...

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