Conceptual Design TOTAL POINTS 13

1.	Identify the sequence of steps to be taken to build an information system with a relational database	1 point
	Logical design, conceptual design, physical design	
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	Conceptual design, physical design, logical design	
2.	What is the input, process and output of the conceptual design for a relational database?	1 point
	 Input: business requirements. Process: mapping the requirements in terms of entities, relations, attributes, primary keys and cardinalities. Output: The Entity-relationship diagram 	
	Input: ER diagram. Process: mapping the Entity-relationship diagram to a normalized database. Output: the relational database	
	Input: mapping the requirements in terms of entities, relations, attributes, primary keys and cardinalities. Process: Create, populate and query the database with SQL. Output: The Entity-relationship and the physical database	
3.	What is the input, process and output of the logical design for a relational database?	1 point
	 Input: mapping the requirements in terms of entities, relations, attributes, primary keys and cardinalities. Process: Create, populate and query the database with SQL. Output: The Entity- relationship and the physical database 	
	 Input: ER diagram. Process: mapping the Entity-relationship diagram to relational model and apply the normal forms. Output: a normalized relational model 	
	 Input: business requirements. Process: mapping the requirements in terms of entities, relations, attributes, primary keys and cardinalities. Output: The Entity-relationship diagram 	
4.	What is the input, process and output of the physical design for a relational database?	1 point
	 Input: mapping the requirements in terms of entities, relations, attributes, primary keys and cardinalities. Process: Create, populate and query the database with SQL. Output: The Entity- relationship diagram and the physical database 	
	Input: ER diagram. Process: mapping the Entity-relationship diagram to relational model and apply the normal forms. Output: a normalized relational model	
	Input: normalized relational data model. Process: Create, populate and query the database with SQL. Output: The physical database	
5.	An entity is a real-world object distinguishable from other objects, and it is described as a set of relationships	1 point
	↑ True	
	False	
6.	An entity set is:	1 point
	 A collection of similar entities is where each entity has the same set of attributes containing same values 	
	 A collection of similar entities is where each entity has the same set of attributes containing different values 	
7.	What is the concept of redundancy ?	1 point
	Storage of the same data several times in different places in the same databases	
	Storage of data several times in different places in different databases	
8.	An attribute is the property or characteristic of an entity	1 point
	True False	
9.	Inconsistency is: when redundant data are not equal to each other	1 point
	when redundant data are equal to each other when redundant data are equal	
10.	Cardinality in an entity-relationship model is:	1 point
	indicates the number of entities with which a given entity may be related	
	indicates the number of tuples of a relation	
11.	A primary key is:	1 point
	An attribute that uniquely identify each entity	
	A real-world object distinguishable from other objects, and it is described as a set of relationships	
12.	A degree in an entity -relationship model is:	1 point

Indicates the number of entities that a relationship associates A collection of similar entities where each entity has the same set of attributes containing different values	
13. An instance is the actual content of the database or let's say the data at a particular instant. Database instances tend to change with timeTrue	1 point
False I, NA KAYNAT LIAQAT, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.	6 P P
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