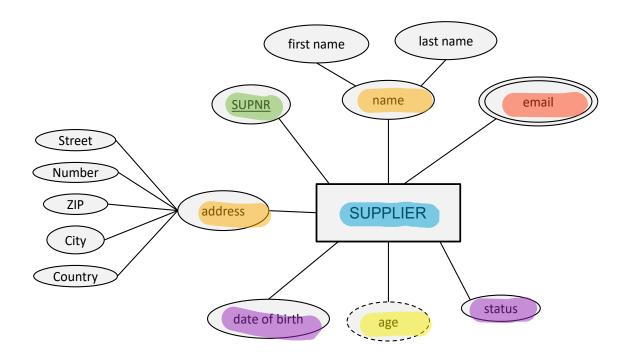
Stu	dent Na	ame: S	tudent NETID:
1-		represents the data in the database at a moment	
	a.	Database model	
	b.	Data Model	
	C.	Database state	
	d.	Database Schema	
	e.	Data Integrity	
2-	These a	are the main benefits of using DBMS to manage data in	applications <b>EXCEPT</b> ?
	a.	Data Administration	
	b.	Data Integrity and Security	
	c.	Concurrent Access and Crash Recovery	
	d.	Data Independence	
	e.	Efficient Unstructured Data Access	
3- A DBMS r		AS must guarantee that the changes made by incomplete	e transactions are removed from the
	databa	ase. To do so, DBMS maintains a of all write	es to the databases.
	a.	lock	
	b.	log	
	c.	checkpoint	
	d.	buffer	
	e.	view	
4-	When	would you <b>not</b> store data in RDBMS?	
	a.	An online store with a collection of data on customers	, products, and employees.
	b.	A company with a collection of 1 billion web pages.	
	C.	A university with a collection of data on students, pro-	fessors and courses.
	d.	An insurance company with a collection of data to be	used for a credit scoring model.
	e.	A hospital with a collection of data on patients, doctor	rs and clinics.
5-	Inform	nation about the conceptual, external and physical scher	mas is stored in the system
		·	
	a.	locks	
	b.	logs	
	c.	tables	
	d.	catalogs	
	P.	views	

S	tudent Na	me: NetID:
1		of a relationship type corresponds to the number of entity types participating in tionship type.
	b. c. d.	degree cardinalities domain arity role
K 2	columr	ontext of databases, refers to the uniqueness of data values contained in a . High means that the column contains a large percentage of totally unique Low means that the column contains a lot of "repeats" in its data range.
	b. c. d.	relationship role domain white 数 如
3	- A	specifies a set of values that may be assigned to an attribute.
	b. c. d.	relationship role domain key cardinality
4	- Which	one is the proper steps in database data model design?
	a. b.	Conceptual, Logical, Physical and External Conceptual, Logical, Physical and View

c. Logical, Conceptual, Physical, Externald. External, Physical, Logical, Conceptuale. Database, Tables, Columns, Rows, Values

- 5- \_\_\_\_\_\_ specify the minimum or maximum number of relationship instances that an individual entity can participate in.
  - a. Cardinalities
  - b. Degrees
  - c. Roles
  - d. Arity
  - e. Locks
- 6- These are all limitations of ER model **EXCEPT**?
  - a. Functions are not included in the ER model
  - b. ER model cannot model temporal constraints
  - c. ER model cannot model weak entities
  - d. Domains are not included in the ER model
  - e. ER model cannot guarantee the consistency across multiple relationship types
- 7- Use the following ER diagram and fill in the blank.
  - a. \_\_\_\_\_\_ is an Entity Type
    b. \_\_\_\_\_\_ is a Key Attribute Type
    c. \_\_\_\_\_\_ is a Derived Attribute Type
    d. \_\_\_\_\_\_ is a Composite Attribute Type
    e. \_\_\_\_\_\_ is a Multi-Valued Attribute Type
    f. \_\_\_\_\_\_ is a Single-Valued Attribute Type



iese a	are all related to integrity constraint <b>EXCEPT</b> ?
b.	Primary key Unique key Integrity key Check Not Null
sult.	is a question about the data, and the answer consists of a new relation containing the
b. c. d.	relation type entity type constraint rule relationship sets relational database query
I the	blank for [SELECT FROM WHERE].
	Entities, Attributes, Filters Attributes, Entities, Filters Attributes, Joins, Filters Entities, Attributes, Joins, Filters None of the above
hich	Normal Form takes care of dependency of a prime attribute to a non-prime attribute?
a. b. c. d.	1NF 2NF 3NF 4NF BCNF
a. b. c.	an attribute that is a part of one of the candidate keys a set of attributes which can uniquely identify a tuple Swer key the minimal set of attributes which can uniquely identify a tuple Comdidate key an attribute which is not part of any candidate key
	a. b. c. d. e. sult. a. b. c. d. e. hich a. b. c. d. e.

a. SELECT b. DELETE c. UPDATE d. DROP e. INSERT  7- Which join method is valid?  a. Left Join b. Right Join c. Inner Join d. Full Join e. All of the above  8	6-		is not a DML statement.	
c. UPDATE d. DROP e. INSERT  7- Which join method is valid?  a. Left Join b. Right Join c. Inner Join d. Full Join e. All of the above  8		a.	SELECT	
d. DROP e. INSERT  7- Which join method is valid?  a. Left Join b. Right Join c. Inner Join d. Full Join e. All of the above  8		b.	DELETE	
e. INSERT  7- Which join method is valid?  a. Left Join b. Right Join c. Inner Join d. Full Join e. All of the above  8		c.	UPDATE	
7- Which join method is valid?  a. Left Join b. Right Join c. Inner Join d. Full Join e. All of the above  8 is not a Dec statement.  a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		d.	DROP	
a. Left Join b. Right Join c. Inner Join d. Full Join e. All of the above 8		e.	INSERT	
b. Right Join c. Inner Join d. Full Join e. All of the above 8	7-	Which join method is valid?		
c. Inner Join d. Full Join e. All of the above 8 is not a DEC statement.  a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		a.	Left Join	
d. Full Join e. All of the above  8 is not a DU statement.  a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		b.		
e. All of the above  8 is not a DKL statement.  a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		c.	Inner Join	
8 is not a DLC statement.  a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		d.		
a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		e.	All of the above	
a. CREATE TABLE b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation			DDC	
b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation	8-		is not a DLL statement.	
b. ALTER INDEX c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation				
c. DROP TABLE d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation				
d. DELETE FROM e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation				
e. CREATE VIEW  9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation				
9 is a process of organizing the data in database to avoid data redundancy and insertion, update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation				
update and deletion anomaly.  a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		e.	CREATE VIEW	
a. Clustered Index b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation	9-			
b. Normalization c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		update	and deletion anomaly.	
c. ACID d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		a.	Clustered Index	
d. ER Diagram e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		b.	Normalization	
e. Integrity enforcement  10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		c.	ACID	
10 means that the results of applying a transaction are permanent, even in the presence of failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		d.	ER Diagram	
failures.  a. Integrity b. Atomicity c. Consistency d. Isolation		e.	Integrity enforcement	
failures.  a. Integrity b. Atomicity c. Consistency d. Isolation	10			
<ul><li>a. Integrity</li><li>b. Atomicity</li><li>c. Consistency</li><li>d. Isolation</li></ul>	10-			
<ul><li>b. Atomicity</li><li>c. Consistency</li><li>d. Isolation</li></ul>		Tallures	i.	
<ul><li>b. Atomicity</li><li>c. Consistency</li><li>d. Isolation</li></ul>		a.	Integrity	
c. Consistency d. Isolation				
d. Isolation				
			·	
e. Durability		e.	Durability	