

The HAVING clause does which of the following?

Select one:

- a. Acts like a WHERE clause but is used for groups rather than rows.**
- b. Acts like a WHERE clause but is used for rows rather than columns.
- c. Acts like a WHERE clause but is used for columns rather than groups.
- d. Acts EXACTLY like a WHERE clause.

You can add a row using SQL in a database with which of the following

Select one:

- a. ADD
- b. CREATE
- c. INSERT**
- d. MAKE

Which of the following is not true about the execution section of a PL/SQL block?

Select one:

- a. It should have more than one executable line of code.**
- b. It may have just a NULL command to indicate that nothing should be executed.
- c. The statements must always end with a semicolon.
- d. The section may contain SQL commands, logical control commands, assignment commands, as well as other commands.

Which of the following is the correct order of keywords for SQL SELECT statements?

Select one:

- a. SELECT, FROM, WHERE**
- b. FROM, WHERE, SELECT
- c. WHERE, FROM, SELECT
- d. SELECT, WHERE, FROM

To get the server output result and display it into the screen, you need to write.

Select one:

- a. set serveroutput on**

- b. set server output on
- c. set dbmsoutput on
- d. set dbms output on

The command to eliminate a table from a database is

Select one:

- a. REMOVE TABLE CUSTOMER;
- b. DROP TABLE CUSTOMER;**
- c. DELETE TABLE CUSTOMER;
- d. UPDATE TABLE CUSTOMER;

Which of the following are the five built-in aggregate functions provided by SQL?

Select one:

- a. COUNT, SUM, AVG, MAX, MIN**
- b. SUM, AVG, MIN, MAX, MULT
- c. SUM, AVG, MULT, DIV, MIN
- d. SUM, AVG, MIN, MAX, NAME

The SQL WHERE clause

Select one:

- a. limits the column data that are returned.
- b. limits the row data are returned.**
- c. Both A and B are correct.
- d. Neither A nor B are correct.

A subquery in an SQL SELECT statement is enclosed in:

Select one:

- a. braces -- {...}.
- b. CAPITAL LETTERS.
- c. parenthesis -- (...) .**
- d. brackets -- [...].

A view is which of the following

Select one:

- a. A virtual table that can be accessed via SQL commands**
- b. A virtual table that cannot be accessed via SQL commands
- c. A base table that can be accessed via SQL commands
- d. A base table that cannot be accessed via SQL commands

How to select all data from student table starting the name from letter r?

Select one:

- a. SELECT * FROM student WHERE name LIKE 'r%';**
- b. SELECT * FROM student WHERE name LIKE '%r%';
- c. SELECT * FROM student WHERE name LIKE '%r';
- d. SELECT * FROM student WHERE name LIKE '_r%';

Which of the following is NOT a type of SQL constraint?

Select one:

- a. PRIMARY KEY
- b. ALTERNATE KEY**
- c. FOREIGN KEY
- d. UNIQUE

SQL data definition commands make up a(n) ____ .

Select one:

- a. DDL**
- b. DML
- c. HTML
- d. XML

The SQL ALTER statement can be used to.

Select one:

- a. change the table data.
- b. change the table structure.**

c. delete rows from the table.

d. add rows to the table.

The SQL keyword(s) _____ is used with wildcards.

Select one:

a. LIKE only

b. IN only

c. NOT IN only

d. IN and NOT IN

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Grade 4.00 out of 5.00 (80%)

Information



Mid-sem Unit Exam, Session (2020-21)

Program: BCA

Course Code and Name: CA-204(Database Management System)

Question 1

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018305

Name:Shabaj Ansari

Program: BCA

Year /Semester:2nd/3rd

Section/Group: D

Question 2

Incorrect

Mark 0.00 out of 1.00

Which of the following is a comparison operator in SQL?

Select one:

- ☐ a. Double equal sign (==)
- ☐ b. LIKE
- ☐ c. BETWEEN
- ☒ d. Single equal sign (=) ✖

The correct answer is: Double equal sign (==)

Question 3

Correct

Mark 1.00 out of 1.00

The SQL statement `SELECT ROUND(45.926,1) FROM DUAL;`

Select one:

- ☐ a. is illegal
- ☐ b. prints garbage
- ☐ c. prints 045.926
- ☒ d. prints 50 ✓

The correct answer is: prints 50

Question 4

Correct

Mark 1.00 out of 1.00

You can add a row using SQL in a database with which of the following:

Select one:

- ☐ a. ADD
- ☐ b. CREATE
- ☒ c. INSERT ✓
- ☐ d. MAKE

The correct answer is: INSERT

Question 5

Correct

Mark 1.00 out of 1.00

Which of the following is the correct order of keywords for SQL `SELECT` statements?

Select one:

- ☒ a. `SELECT, FROM, WHERE` ✓
- ☐ b. `FROM, WHERE, SELECT`
- ☐ c. `WHERE, FROM,SELECT`
- ☐ d. `SELECT,WHERE,FROM`

The correct answer is: `SELECT, FROM, WHERE`

Question 6

Correct

Mark 1.00 out of 1.00

Foreign key is the one in which the _____ of one relation is referenced in another relation.

Select one:

- ☐ a. Foreign key
- ☒ b. Primary key ✓
- ☐ c. References
- ☐ d. Check constraint

The correct answer is: Primary key



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Question 1

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018305

Name:Shabaj Ansari

Program: BCA

Year /Semester:2nd/3rd

Section/Group: D

Question 2

Incorrect

Mark 0.00 out of 1.00

Which of the following is a comparison operator in SQL?

Select one:

- ☐ a. Double equal sign (==)
- ☐ b. LIKE
- ☐ c. BETWEEN
- ☒ d. Single equal sign (=) ✖

The correct answer is: Double equal sign (==)

Question 3

Correct

Mark 1.00 out of 1.00

The SQL statement SELECT ROUND(45.926,1) FROM DUAL;

Select one:

- ☐ a. is illegal
- ☐ b. prints garbage
- ☐ c. prints 045.926
- ☒ d. prints 50 ✓

The correct answer is: prints 50

Question 4

Correct

Mark 1.00 out of 1.00

You can add a row using SQL in a database with which of the following:

Select one:

- ☐ a. ADD
- ☐ b. CREATE
- ☒ c. INSERT ✓
- ☐ d. MAKE

The correct answer is: INSERT

Question 5

Correct

Mark 1.00 out of 1.00

Which of the following is the correct order of keywords for SQL SELECT statements?

Select one:

- ☒ a. SELECT, FROM, WHERE ✓
- ☐ b. FROM, WHERE, SELECT
- ☐ c. WHERE, FROM,SELECT
- ☐ d. SELECT,WHERE,FROM

The correct answer is: SELECT, FROM, WHERE

Question 6

Correct

Mark 1.00 out of 1.00

Foreign key is the one in which the _____ of one relation is referenced in another relation.

Select one:

- ☐ a. Foreign key
- ☒ b. Primary key ✓
- ☐ c. References
- ☐ d. Check constraint

The correct answer is: Primary key



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sdc@iul.ac.in

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Question 1

Not yet answered

Not graded

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Program: BCA

Year /Semester:2nd/3rd

Section/Group: 4/D

Question 2

Not yet answered

Marked out of 1.00

In which phase of Two phase Locking protocol, A transaction may obtain locks, but may not release any lock?

Select one:

- ☐ a. Growing
- ☐ b. Shrinking
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)

Question 3

Not yet answered

Marked out of

Which property states that after a transaction completes successfully, the changes it has made to the database persist, even if there are system failures.

Select one:

Marked out of

1.00

Select one:

- ☐ a. Atomicity
- ☐ b. Consistency
- ☐ c. Isolation
- ☒ d. Durability

[Clear my choice](#)

Question 4

Not yet answered

Marked out of

1.00

Which are the basic database access operations that a transaction can include:

Select one:

- ☐ a. Read
- ☐ b. Write
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)

Question 5

Not yet answered

Marked out of

1.00

Which operation signals a successful end of the transaction?

Select one:

- ☒ a. Commit
- ☐ b. Rollback
- ☐ c. Aborted
- ☐ d. None of the above

[Clear my choice](#)

Question 6

Not yet answered

Marked out of

1.00

What are the main problems of using Serial Schedules?

Select one:

- ☐ a. Limited Concurrency
- ☐ b. Wasting valuable CPU processing time
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)



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Question 1

Not yet
answered

Marked out of
1.00

Which property states that after a transaction completes successfully, the changes it has made to the database persist, even if there are system failures.

Select one:

- ☐ a. Isolation
- ☐ b. Atomicity
- ☐ c. Consistency
- ☒ d. Durability

[Clear my choice](#)

Question 2

Not yet
answered

Marked out of
1.00

The execution sequences are called _____.

Select one:

- ☒ a. Shcedule
- ☐ b. Sequence
- ☐ c. Scheme
- ☐ d. None of the above

[Clear my choice](#)

Question 3

Not yet
answered

Marked out of
1.00

Forming a single logical unit of task from a collection of routine operations is called:

Select one:

- ☐ a. Execution
- ☐ b. None of the above
- ☒ c. Transaction
- ☐ d. Concurrency

[Clear my choice](#)

Question 4

Not yet
answered

Marked out of
1.00

What are the main problems of using Serial Schedules?

Select one:

- ☒ a. Both A and B
- ☐ b. Wasting valuable CPU processing time
- ☐ c. None of the above
- ☐ d. Limited Concurrency

[Clear my choice](#)

Question **5**

Not yet answered

Marked out of 1.00

Which state tells that the transaction has been rolled back and the database has been restored to its state prior to the start of the transaction?

Select one:

- ☐ a. Failed
- ☐ b. Active
- ☒ c. Aborted
- ☐ d. Partially Committed

[Clear my choice](#)

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Question 1

Not yet answered

Marked out of 0.50

Entity is a

Select one:

- ☐ a. Object of relation
- ☐ b. Present working model
- ☒ c. Thing in real world
- ☐ d. Model of relation

[Clear my choice](#)

Question 2

Not yet answered

Marked out of 0.50

_____, express the number of entities to which another entity can be associated via a relationship set.

Select one:

- ☒ a. Mapping Cardinality
- ☐ b. Relational Cardinality
- ☐ c. Participation Constraints
- ☐ d. None

[Clear my choice](#)

Question 3

Not yet answered

Not graded

Enter your Full Name and Roll number

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A ▾

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 $\frac{2}{3}$

Program: BCA

Year /Semester:2nd/3rd

Section/Group: 4/D

Question 4

Not yet answered

Marked out of 0.50

Properties that describe the characteristics of entities are called:

Select one:

- ☐ a. Property
- ☒ b. Attribute
- ☐ c. Identifiers
- ☐ d. Relationship

[Clear my choice](#)

Question 5

Not yet answered

Marked out of

An Entity is said to be _____ if it can exist in the database only when it is associated with another related entity

Select one:

Marked out of 0.50

- ☐ a. Existence Degree
- ☒ b. Existence Dependent
- ☐ c. Entity Dependent
- ☐ d. Entity Degree

[Clear my choice](#)

Question 6

Not yet answered

Marked out of 0.50

An entity set that does not have sufficient attributes to form a primary key is termed a _____

Select one:

- ☐ a. Strong entity set
- ☐ b. Variant set
- ☒ c. Weak entity set
- ☐ d. Variable set

[Clear my choice](#)

Question 7

Not yet answered

Marked out of 0.50

_____ is chosen by the database designer as the principal means of identifying entities within an Entity Set.

Select one:

- ☐ a. Super Key
- ☐ b. Candiadte Key
- ☒ c. Primary key
- ☐ d. Foreign Key

[Clear my choice](#)

Question 8

Not yet answered

Marked out of 0.50

The attribute name could be structured as a attribute consisting of first name, middle initial, and last name . This type of attribute is called

Select one:

- ☐ a. Simple attribute
- ☒ b. Composite attribute
- ☐ c. Multivalued attribute
- ☐ d. Derived attribute

[Clear my choice](#)

Question 9

Not yet answered

Marked out of 0.50

The relationship between the President and the country is an example of which type of relationship?

Select one:

- ☒ a. One-to-One
- ☐ b. One-to-Many
- ☐ c. Many-to-one
- ☐ d. Many-to-many

[Clear my choice](#)

Question 10

Not yet answered

Marked out of

The participation of an entity set E in a relationship set R is said to be _____ if every entity in E participates in at least one relationship in R.

Select one:

Marked out of
0.50

Select one:

- ☐ a. Complete
- ☐ b. Partial
- ☒ c. Total
- ☐ d. None

[Clear my choice](#)

Question **11**

Not yet
answered

Marked out of
0.50

The relationship set is represented in E-R diagram as:

Select one:

- ☐ a. Double diamonds
- ☐ b. Undivided rectangles
- ☐ c. Dashed lines
- ☒ d. Diamond

[Clear my choice](#)

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Question 1

Answer saved

Marked out of
0.50

A _____ is an attribute whose values match the Primary Key values in the related Entity Set.

Select one:

- ☐ a. Super Key
- ☐ b. Candiadte Key
- ☐ c. Primary key
- ☒ d. Foreign Key

[Clear my choice](#)**Question 2**

Answer saved

Marked out of
0.50

_____ is chosen by the database designer as the principal means of identifying entities within an Entity Set.

Select one:

- ☐ a. Super Key
- ☐ b. Candiadte Key
- ☒ c. Primary key
- ☐ d. Foreign Key

[Clear my choice](#)**Question 3**

Answer saved

Marked out of
0.50

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Select one:

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- ☐ b. One-to-Many
- ☐ c. Many-to-one
- ☐ d. Many-to-many

[Clear my choice](#)**Question 4**

Answer saved

Marked out of
0.50

Properties that describe the characteristics of entities are called:

Select one:

- ☐ a. Property
- ☒ b. Attribute
- ☐ c. Identifiers
- ☐ d. Relationship

[Clear my choice](#)**Question 5**

Answer saved

An entity set that does not have sufficient attributes to form a primary key is termed a _____

Marked out of 0.50

- Select one:
- ☐ a. Strong entity set
 - ☐ b. Variant set
 - ☒ c. Weak entity set
 - ☐ d. Variable set
- [Clear my choice](#)

Question 6
Answer saved
Marked out of 0.50

- Which of the fol lowing gives a logical structure of the database graphically?
- Select one:
- ☒ a. E R Diagram
 - ☐ b. Database Diagram
 - ☐ c. Relation Diagram
 - ☐ d. None
- [Clear my choice](#)

Question 7
Answer saved
Marked out of 0.50

- An Entity is said to be _____ if it can exist in the database only when it is associated with another related entity
- Select one:
- ☐ a. Existence Degree
 - ☒ b. Existence Dependent
 - ☐ c. Entity Dependent
 - ☐ d. Entity Degree
- [Clear my choice](#)

Question 8
Answer saved
Marked out of 0.50

- _____, express the number of entities to which another entity can be associated via a relationship set.
- Select one:
- ☒ a. Mapping Cardinality
 - ☐ b. Relational Cardinality
 - ☐ c. Participation Constraints
 - ☐ d. None
- [Clear my choice](#)

Question 9
Answer saved
Not graded

Enter your Full Name and Roll number

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A ▾

B

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$\frac{1}{2}$ $\frac{2}{3}$

Roll Number: 1901018284
Name:sahil khan
Program: BCA

Question 10
Answer saved

Which of the following is a single valued attribute?

Marked out of
0.50

- Select one:
- ☒ a. Registration_number
 - ☐ b. MobileNo
 - ☐ c. Subject_taken
 - ☐ d. Reference

[Clear my choice](#)

Question **11**
Answer saved
Marked out of
0.50

A _____ is an association among two or more entities.

- Select one:
- ☐ a. Associativity
 - ☒ b. Relationship
 - ☐ c. Dependency
 - ☐ d. None

[Clear my choice](#)

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Completed on Friday, 11 December 2020, 5:28 PM
Time taken 3 mins 15 secs
Grade **5.00** out of 5.00 (**100%**)

Question **1**
Correct
Mark 1.00 out of 1.00

The _____ operation selects certain columns from the table and discards the other columns.

- Select one:
- ☐ a. Selection
 - ☒ b. Projection ✓
 - ☐ c. Join
 - ☐ d. None of these

The correct answer is: Projection

Question **2**
Correct
Mark 1.00 out of 1.00

The basic objective of Normalization is to reduce _____

- Select one:
- ☐ a. Dependency
 - ☒ b. Redundancy ✓
 - ☐ c. Reusability
 - ☐ d. None of these

The correct answer is: Redundancy

Question **3**
Correct
Mark 1.00 out of 1.00

Cartesian Product is also known as _____

- Select one:
- ☒ a. Cross Product ✓
 - ☐ b. Static Product
 - ☐ c. Vector Product
 - ☐ d. None of these

The correct answer is: Cross Product

Question 4

Correct

Mark 1.00 out of 1.00

The _____ operation selects certain rows from the table and discards the other rows.

Select one:

- ☒ a. Selection ✓
- ☐ b. Projection
- ☐ c. Join
- ☐ d. None of these

The correct answer is: Selection

Question 5

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018176

Name: Mohammad Asif

Program: bca

Year /Semester: 2nd/3rd

Section/Group: c

Question 6

Correct

Mark 1.00 out of 1.00

_____ exists when a relation has at least three attributes, two of them are multivalued and their values depend on only the third attribute.

Select one:

- ☐ a. Relational Dependency
- ☒ b. Multivalued Dependency ✓
- ☐ c. Dependency
- ☐ d. Functional Dependency

The correct answer is: Multivalued Dependency



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Completed on Saturday, 19 December 2020, 2:53 PM
Time taken 14 mins 40 secs
Grade 3.50 out of 5.00 (70%)

Question **1**
Incorrect
Mark 0.00 out of 0.50

The participation of an entity set E in a relationship set R is said to be ____ if every entity in E participates in at least one relationship in R.

Select one:

- ☐ a. Complete
- ☒ b. Partial **✖**
- ☐ c. Total
- ☐ d. None

The correct answer is: Total

Question **2**
Complete
Not graded

Enter your Full Name and Roll number

Roll Number: 1901018176
Name: Mohammad Asif
Program: BCA
Year /Semester: 2nd/3rd
Section/Group: C

Question **3**
Incorrect
Mark 0.00 out of 0.50

In an Entity-Relationship Diagram “Ellipses” represents

Select one:

- ☐ a. Attributes
- ☐ b. Weak entity set
- ☐ c. Relationship sets
- ☒ d. Multi-valued attributes **✖**

The correct answer is: Attributes

Question **4**

Correct

Mark 0.50 out of 0.50

The relationship set is represented in E-R diagram as:

Select one:

- ☐ a. Double diamonds
- ☐ b. Undivided rectangles
- ☐ c. Dashed lines
- ☒ d. Diamond ✓

The correct answer is: Diamond

Question **5**

Correct

Mark 0.50 out of 0.50

Which of the following is a single valued attribute?

Select one:

- ☒ a. Registration_number ✓
- ☐ b. MobileNo
- ☐ c. Subject_taken
- ☐ d. Reference

The correct answer is: Registration_number

Question **6**

Correct

Mark 0.50 out of 0.50

_____ is an abstraction through which relationships are treated as higher-level entities.

Select one:

- ☐ a. Specialization
- ☐ b. Generalization
- ☒ c. Aggregation ✓
- ☐ d. None

The correct answer is: Aggregation

Question **7**

Correct

Mark 0.50 out of 0.50

The _____ of a relationship type is the number of participating entity types.

Select one:

- ☐ a. Adjacency
- ☐ b. Participants
- ☒ c. Degree ✓
- ☐ d. None

The correct answer is: Degree

Question 8

Incorrect

Mark 0.00 out of 0.50

EMPLOYEE WorksOn PROJECT is _____ type of relationship.

Select one:

- ☐ a. One-to-One
- ☒ b. One-to-Many ✖
- ☐ c. Many-to-one
- ☐ d. Many-to-many

The correct answer is: Many-to-many

Question 9

Correct

Mark 0.50 out of 0.50

Weak entity set is represented as:

Select one:

- ☐ a. Underline
- ☐ b. Double line
- ☐ c. Double diamond
- ☒ d. Double rectangle ✔

The correct answer is: Double rectangle

Question 10

Correct

Mark 0.50 out of 0.50

_____ is chosen by the database designer as the principal means of identifying entities within an Entity Set.

Select one:

- ☐ a. Super Key
- ☐ b. Candiadte Key
- ☒ c. Primary key ✔
- ☐ d. Foreign Key

The correct answer is: Primary key

Question 11

Correct

Mark 0.50 out of 0.50

Entity is a

Select one:

- ☐ a. Object of relation
- ☐ b. Present working model
- ☒ c. Thing in real world ✔
- ☐ d. Model of relation

The correct answer is: Thing in real world



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QUIZ 1 ►

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Question 1

Not yet
answered

Marked out of
1.00

How access specifiers in Class helps in Abstraction?

Select one:

- ☐ a. They does not helps in any way
- ☒ b. They allows us to show only required things to outer world
- ☐ c. They help in keeping things together
- ☐ d. Abstraction concept is not used in classes

[Clear my choice](#)

Question 2

Not yet
answered

Marked out of
1.00

Which operator is overloaded for a cout object?

Select one:

- ☐ a. >>;
- ☐ b. <;
- ☐ c. >;
- ☒ d. <<;

[Clear my choice](#)

Question 3

Not yet
answered

Marked out of
1.00

Which of the following provides a programmer with the facility of using object of a class inside other classes?

Select one:

- ☐ a. Inheritance
- ☒ b. Composition
- ☐ c. Abstraction
- ☐ d. Encapsulation

[Clear my choice](#)

Question 4

Not yet
answered

Marked out of
1.00

Which of the following class allows to declare only one object of it?

Select one:

- ☐ a. Abstract class
- ☐ b. Virtual class
- ☒ c. Singleton class
- ☐ d. Friend class

[Clear my choice](#)

Question **5**

Not yet
answered

Marked out of
1.00

What does polymorphism in OOPs mean?

Select one:

- ☒ a. Concept of allowing overriding of functions
- ☐ b. Concept of hiding data
- ☐ c. Concept of keeping things in differnt modules/files
- ☐ d. Concept of wrapping things into a single unit

[Clear my choice](#)



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Information



Mid-sem Unit Exam, Session (2020-21)

Program: BCA

Course Code and Name: CA-204 (DBMS)

Question 1

Not yet answered

Not graded

Enter your Full Name and Roll number

↓

A ▾

B

I

≡

≡¹/₂

🔗

🔄

🖼️

Program: BCA

Year /Semester: 2nd/3rd

Section/Group: C

Question 2

Not yet answered

Marked out of 1.00

In which phase of Two phase Locking protocol, A transaction may release locks, but may not obtain any new locks?

Select one:

- ☐ a. Growing
- ☒ b. Shrinking
- ☐ c. None of the above
- ☐ d. Both A and B

[Clear my choice](#)

Question 3

Not yet answered

Marked out of

In which phase of Two phase Locking protocol, A transaction may obtain locks, but may not release any lock?

Select one:

Marked out of 1.00

- ☐ a. Shrinking
- ☒ b. Growing
- ☐ c. None of the above
- ☐ d. Both A and B

[Clear my choice](#)

Question 4

Not yet answered

Marked out of 1.00

If a transaction T_i has obtained an _____ on item Q, then T_i can both read and write Q.

Select one:

- ☐ a. Shared
- ☐ b. None of the above
- ☐ c. Both A and B
- ☒ d. Exclusive

[Clear my choice](#)

Question 5

Not yet answered

Marked out of 1.00

Which operation signals a successful end of the transaction?

Select one:

- ☐ a. Aborted
- ☐ b. Rollback
- ☒ c. Commit
- ☐ d. None of the above

[Clear my choice](#)

Question 6

Not yet answered

Marked out of 1.00

What are the main problems of using Serial Schedules?

Select one:

- ☐ a. None of the above
- ☐ b. Wasting valuable CPU processing time
- ☐ c. Limited Concurrency
- ☒ d. Both A and B

[Clear my choice](#)



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UNIT TEST 4

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Completed on Thursday, 10 December 2020, 12:16 AM
Time taken 4 mins 34 secs
Marks 5.00/5.00
Grade **25.00** out of 25.00 (**100%**)

Question **1**
Correct
Mark 1.00 out of 1.00

Which one is not a DBMS Software?

- Select one:
- ☐ a. MS Access
 - ☒ b. Python ✓
 - ☐ c. Oracle
 - ☐ d. Microsoft SQL Server

The correct answer is: Python

Question **2**
Correct
Mark 1.00 out of 1.00

Before database management systems (DBMSs) were introduced, organizations usually stored information in _____

- Select one:
- ☐ a. First Processing System
 - ☐ b. File Proceed System
 - ☐ c. None of the above
 - ☒ d. File Processing System ✓

The correct answer is: File Processing System

Question **3**
Correct
Mark 1.00 out of 1.00

_____ is a place to store data.

- Select one:
- ☐ a. None of the above
 - ☐ b. Base for Data
 - ☐ c. DBMS
 - ☒ d. Database ✓

The correct answer is: Database

Question **4**

Correct

Mark 1.00 out of 1.00

A domain is atomic if elements of the domain are considered to be _____ units.

Select one:

- ☐ a. Divisible
- ☐ b. Constant
- ☒ c. Indivisible ✓
- ☐ d. Different

The correct answer is: Indivisible

Question **5**

Correct

Mark 1.00 out of 1.00

Advantages of DBMS are:

Select one:

- ☐ a. Redundancy Control
- ☐ b. Unauthorized Access restriction
- ☒ c. All of the above ✓
- ☐ d. Integrity Constraints Enforcement

The correct answer is: All of the above

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UNIT 1

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Grade **5.00** out of 5.00 (**100%**)

Question **1**

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018176

Name: Mohammad Asif

Program: BCA

Year /Semester: 2nd/3rd

Section/Group: C

Question **2**

Correct

Mark 1.00 out of 1.00

Tables in 3NF:

Select one:

- ☐ a. Remove Partial Dependencies
- ☒ b. Remove Transitive dependencies ✓
- ☐ c. Simple Attribute
- ☐ d. None of these

The correct answer is: Remove Transitive dependencies

Question **3**

Correct

Mark 1.00 out of 1.00

_____ exists when a relation has at least three attributes, two of them are multivalued and their values depend on only the third attribute.

Select one:

- ☐ a. Relational Dependency
- ☒ b. Multivalued Dependency ✓
- ☐ c. Dependency
- ☐ d. Functional Dependency

The correct answer is: Multivalued Dependency

Question 4

Correct

Mark 1.00 out of 1.00

_____ is the process of defining a set of subclasses of an entity type.

Select one:

- ☒ a. Specialization ✓
- ☐ b. Generalization
- ☐ c. Aggregation
- ☐ d. None

The correct answer is: Specialization

Question 5

Correct

Mark 1.00 out of 1.00

_____ Normal Form was defined to disallow multivalued attributes, composite attributes, and their combinations.

Select one:

- ☐ a. 4NF
- ☐ b. 3NF
- ☐ c. 2NF
- ☒ d. 1NF ✓

The correct answer is: 1NF

Question 6

Correct

Mark 1.00 out of 1.00

A DBMS should provide a security and authorization subsystem, which the DBA uses to create accounts and to specify account restrictions.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.



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Completed on Friday, 11 December 2020, 12:05 AM
Time taken 12 mins 18 secs
Grade **4.00** out of 5.00 (**80%**)

Question **1**
Correct
Mark 1.00 out of 1.00

We specify a database schema by a set of definitions expressed by a special language called a _____

- Select one:
- ☒ a. Data Definition Language ✓
 - ☐ b. Data Manipulation Language
 - ☐ c. Relational Data Language
 - ☐ d. None of these

The correct answer is: Data Definition Language

Question **2**
Incorrect
Mark 0.00 out of 1.00

If an attribute of a composite key is dependent on an attribute of the other composite key, a Normalization called _____ is needed.

- Select one:
- ☐ a. 1NF
 - ☐ b. 2NF
 - ☒ c. 3NF ✗
 - ☐ d. BCNF

The correct answer is: BCNF

Question **3**
Correct
Mark 1.00 out of 1.00

_____ is an abstraction through which relationships are treated as higher-level entities.

- Select one:
- ☐ a. Specialization
 - ☐ b. Generalization
 - ☒ c. Aggregation ✓
 - ☐ d. None

The correct answer is: Aggregation

Question 4

Correct

Mark 1.00 out of 1.00

Tables in 3NF:

Select one:

- ☐ a. Remove Partial Dependencies
- ☒ b. Remove Transitive dependencies ✓
- ☐ c. Simple Attribute
- ☐ d. None of these

The correct answer is: Remove Transitive dependencies

Question 5

Correct

Mark 1.00 out of 1.00

An attribute that is part of any candidate key in the relation is called:

Select one:

- ☒ a. Prime attribute ✓
- ☐ b. Non Prime attribute
- ☐ c. Parent attribute
- ☐ d. Candidate attribute

The correct answer is: Prime attribute

Question 6

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018305

Name:Shabaj ansari

Program: BCA

Year /Semester:2nd/3rd.

Section/Group: 4/D

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Time taken 10 mins 4 secs
Grade **5.00** out of 5.00 (**100%**)

Question **1**
Correct
Mark 1.00 out of 1.00

_____, express the number of entities to which another entity can be associated via a relationship set.

- Select one:
- ☒ a. Mapping Cardinality ✓
 - ☐ b. Relational Cardinality
 - ☐ c. Participation Constraints
 - ☐ d. None

The correct answer is: Mapping Cardinality

Question **2**
Correct
Mark 1.00 out of 1.00

The attribute name could be structured as a attribute consisting of first name, middle initial, and last name . This type of attribute is called

- Select one:
- ☐ a. Simple attribute
 - ☒ b. Composite attribute ✓
 - ☐ c. Multivalued attribute
 - ☐ d. Derived attribute

The correct answer is: Composite attribute

Question **3**
Correct
Mark 1.00 out of 1.00

An Entity is said to be _____ if it can exist in the database only when it is associated with another related entity

- Select one:
- ☐ a. Existence Degree
 - ☒ b. Existence Dependent ✓
 - ☐ c. Entity Dependent
 - ☐ d. Entity Degree

The correct answer is: Existence Dependent

Question 4

Correct

Mark 1.00 out of 1.00

The relationship between the President and the country is an example of which type of relationship?

Select one:

- ☒ a. One-to-One ✓
- ☐ b. One-to-Many
- ☐ c. Many-to-one
- ☐ d. Many-to-many

The correct answer is: One-to-One

Question 5

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018176

Name: Mohammad Asif

Program: bca

Year /Semester: 2nd/3rd

Section/Group: c

Question 6

Correct

Mark 1.00 out of 1.00

An Entity may have:

Select one:

- ☐ a. Physcial Existence
- ☐ b. Logical Existence
- ☒ c. Both A and B ✓
- ☐ d. None

The correct answer is: Both A and B

◀ FOCUSED DISCUSSION FORUM
UNIT 2

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Grade **4.00** out of 5.00 (**80%**)

Question **1**

Complete

Not graded

Enter your Full Name and Roll number

Roll Number: 1901018305

Name:Shabaj ansari

Program: BCA

Year /Semester:2nd/3rd

Section/Group: 4/d

Question **2**

Correct

Mark 1.00 out of 1.00

_____ is chosen by the database designer as the principal means of identifying entities within an Entity Set.

Select one:

- ☐ a. Super Key
- ☐ b. Candiadte Key
- ☒ c. Primary key ✓
- ☐ d. Foreign Key

The correct answer is: Primary key

Question **3**

Correct

Mark 1.00 out of 1.00

An attribute takes a _____ when an entity does not have a value for it.

Select one:

- ☐ a. Default value
- ☐ b. Zero value
- ☒ c. Null value ✓
- ☐ d. None

The correct answer is: Null value

Question 4

Incorrect

Mark 0.00 out of 1.00

Weak entity set is represented as:

Select one:

- ☐ a. Underline
- ☐ b. Double line
- ☒ c. Double diamond ✖
- ☐ d. Double rectangle

The correct answer is: Double rectangle

Question 5

Correct

Mark 1.00 out of 1.00

An Entity is said to be _____ if it can exist in the database only when it is associated with another related entity

Select one:

- ☐ a. Existence Degree
- ☒ b. Existence Dependent ✔
- ☐ c. Entity Dependent
- ☐ d. Entity Degree

The correct answer is: Existence Dependent

Question 6

Correct

Mark 1.00 out of 1.00

The attribute AGE is calculated from DATE_OF_BIRTH. The attribute AGE is:

Select one:

- ☐ a. Simple attribute
- ☐ b. Composite attribute
- ☐ c. Multivalued attribute
- ☒ d. Derived attribute ✔

The correct answer is: Derived attribute



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Question 2

Not yet
answered

Marked out of
1.00

A schedule S is said to be _____ if it is view equivalent to a serial schedule.

Select one:

- ☐ a. Conflict Serializable
- ☐ b. Non-conflict Serializable
- ☒ c. View Serializable
- ☐ d. None of the above

[Clear my choice](#)

Question 3

Not yet
answered

Marked out of
1.00

A Schedule S is _____ if, for every transaction T participating in the schedule, all the operations of T are executed consecutively in the schedule.

Select one:

- ☐ a. Serial Schedule
- ☐ b. Non-Serial Schedule
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)

Question 4

Not yet
answered

Marked out of
1.00

At which state, some types of concurrency control protocols may do additional checks to see if the transaction can be committed or not?

Select one:

- ☐ a. Active
- ☒ b. Partially Committed
- ☐ c. Committed
- ☐ d. Aborted

[Clear my choice](#)

Question 5

Not yet
answered

Marked out of
1.00

Forming a single logical unit of task from a collection of routine operations is called:

Select one:

- ☐ a. Execution
- ☐ b. Concurrency
- ☒ c. Transaction
- ☐ d. None of the above

[Clear my choice](#)

Question **6**Not yet
answeredMarked out of
1.00

If a schedule S can be transformed into a schedule S' by a series of swaps of nonconflicting instructions, we say that S and S' are _____.

Select one:

- ☐ a. Conflict Serializable
- ☒ b. Non-conflict Serializable
- ☐ c. View Serializable
- ☐ d. None of the above

[Clear my choice](#)Question **7**Not yet
answeredMarked out of
1.00

If a transaction T_i has obtained a _____ lock on item Q, then T_i can read, but cannot write, Q.

Select one:

- ☒ a. Shared
- ☐ b. Exclusive
- ☐ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **8**Not yet
answeredMarked out of
1.00

If a transaction T_i has obtained an _____ on item Q, then T_i can both read and write Q.

Select one:

- ☐ a. Shared
- ☒ b. Exclusive
- ☐ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **9**Not yet
answeredMarked out of
1.00

In which phase of Two phase Locking protocol, A transaction may obtain locks, but may not release any lock?

Select one:

- ☒ a. Growing
- ☐ b. Shrinking
- ☐ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **10**Not yet
answeredMarked out of
1.00

In which phase of Two phase Locking protocol, A transaction may release locks, but may not obtain any new locks?

Select one:

- ☐ a. Growing
- ☒ b. Shrinking
- ☐ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **11**Not yet
answeredMarked out of
1.00

Lock in _____ mode is compatible with shared mode, but not with exclusive mode.

Select one:

- ☒ a. Shared
- ☐ b. Exclusive
- ☐ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **12**Not yet
answeredMarked out of
1.00

Term stating either all operations of transaction are executed or none to be performed is known as:

Select one:

- ☒ a. Atomicity
- ☐ b. Consistency
- ☐ c. Isolation
- ☐ d. Durability

[Clear my choice](#)Question **13**Not yet
answeredMarked out of
1.00

The execution of a transaction should not be interfered with by any other transactions executing concurrently, this property is known as:

Select one:

- ☒ a. Atomicity
- ☐ b. Consistency
- ☐ c. Isolation
- ☐ d. Durability

[Clear my choice](#)Question **14**Not yet
answeredMarked out of
1.00

The execution sequences are called _____.

Select one:

- ☐ a. Scheme
- ☒ b. Shcedule
- ☐ c. Sequence
- ☐ d. None of the above

[Clear my choice](#)Question **15**Not yet
answeredMarked out of
1.00

The schedule which is equivalent to a serial schedule are called _____ schedules.

Select one:

- ☒ a. Serializable
- ☐ b. Non-Serializable
- ☐ c. Sequence
- ☐ d. None of the above

[Clear my choice](#)

Question **16**Not yet
answeredMarked out of
1.00

There may be _____ possible serial schedules of n transactions.

Select one:

- ☒ a. $n!$
- ☐ b. $n/2$
- ☐ c. $2n$
- ☐ d. None of the above

[Clear my choice](#)Question **17**Not yet
answeredMarked out of
1.00

To ensure that the system must control the interaction among the concurrent transactions it is achieved through _____.

Select one:

- ☐ a. Conflict Control
- ☐ b. Consistency Control
- ☒ c. Concurrency Control
- ☐ d. None of the above

[Clear my choice](#)Question **18**Not yet
answeredMarked out of
1.00

Two operations in a schedule are said to _____ if they belong to different transactions, access the same database item, and at least one of these operations is a write operation.

Select one:

- ☐ a. serial
- ☐ b. non conflict
- ☒ c. conflict
- ☐ d. None of the above

[Clear my choice](#)Question **19**Not yet
answeredMarked out of
1.00

What are the main problems of using Serial Schedules?

Select one:

- ☐ a. Limited Concurrency
- ☐ b. Wasting valuable CPU processing time
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **20**Not yet
answeredMarked out of
1.00

What is main mode in which a data item may be locked?

Select one:

- ☐ a. Shared
- ☐ b. Exclusive
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **21**Not yet
answeredMarked out of
1.00

Which are the basic database access operations that a transaction can include:

Select one:

- ☐ a. Read
- ☐ b. Write
- ☒ c. Both A and B
- ☐ d. None of the above

[Clear my choice](#)Question **22**Not yet
answeredMarked out of
1.00

Which operation signals a successful end of the transaction?

Select one:

- ☒ a. Commit
- ☐ b. Rollback
- ☐ c. Aborted
- ☐ d. None of the above

[Clear my choice](#)Question **23**Not yet
answeredMarked out of
1.00

Which property states that after a transaction completes successfully, the changes it has made to the database persist, even if there are system failures.

Select one:

- ☐ a. Atomicity
- ☐ b. Consistency
- ☐ c. Isolation
- ☒ d. Durability

[Clear my choice](#)Question **24**Not yet
answeredMarked out of
1.00

Which property states that if the database was in consistent state before the start of a transaction, then on termination of transaction the database will also be in consistent state?

Select one:

- ☐ a. Atomicity
- ☒ b. Consistency
- ☐ c. Isolation
- ☐ d. Durability

[Clear my choice](#)

Question **25**

Not yet answered

Marked out of 1.00

Which state tells that the transaction has been rolled back and the database has been restored to its state prior to the start of the transaction?

Select one:

- ☐ a. Active
- ☐ b. Partially Committed
- ☐ c. Failed
- ☒ d. Aborted

[Clear my choice](#)

Question **26**

Not yet answered

Marked out of 1.00

While one transaction is accessing a data item, no other transaction can access or modify that data item, it is achieved through _____.

Select one:

- ☒ a. Locking
- ☐ b. Keying
- ☐ c. Non-Keying
- ☐ d. None of the above

[Clear my choice](#)

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