| MCQ Question: Relational Algebra is a query language that takes two relations as input and produces another relation as an output of the query. |
|--|
| Options: |
| Relational Structural Procedural Fundamental |
| Correct Answer: Procedural |
| MCQ Question: Which of the following is a fundamental operation in relational algebra? |
| Options: |
| Set intersection Natural join Assignment None of the mentioned |
| Correct Answer: None of the mentioned |
| MCQ Question: Which of the following is used to denote the selection operation in relational algebra? |
| Options: |
| Pi (Greek) Sigma (Greek) Lambda (Greek) Omega (Greek) |
| Correct Answer: Sigma (Greek) |
| MCQ Question: For select operation the appear in the subscript and the argument appears in the paranthesis after the sigma. |
| Options: |
| Predicates, relation Relation, Predicates Operation, Predicates Relation, Operation |
| Correct Answer: Predicates, relation |
| MCQ Question: The operation, denoted by ?, allows us to find tuples that are in one |

relation but are not in another.

Options:

- 1. Union
- 2. Set-difference
- 3. Difference
- 4. Intersection

Correct Answer: Set-difference

MCQ Question: Which is a unary operation:

Options:

- 1. Selection operation
- 2. Primitive operation
- 3. Projection operation
- 4. Generalized selection

Correct Answer: Generalized selection

MCQ Question: Which is a join condition contains an equality operator:

Options:

- 1. Equijoins
- 2. Cartesian
- 3. Natural
- 4. Left

Correct Answer: Equijoins

MCQ Question: In precedence of set operators, the expression is evaluated from

Options:

- 1. Left to left
- 2. Left to right
- 3. Right to left
- 4. From user specification

Correct Answer: Left to right

MCQ Question: Which of the following is not outer join?

Options:

1. Left outer join 2. Right outer join 3. Full outer join 4. All of the mentioned Correct Answer: All of the mentioned MCQ Question: The assignment operator is denoted by **Options:** 1. -> 2. <-3. = 4. == Correct Answer: <-**MCQ Question:** A ____ system is a non-procedural query language. **Options:** 1. Rational Calculus 2. Relational Calculus 3. Ambiguous Calculus 4. None of the above **Correct Answer:** Relational Calculus **MCQ Question:** A ____ query language focuses on how to get the end results for the user. **Options:** 1. Procedural 2. Non-procedural 3. Circular 4. Flow Correct Answer: Non-procedural **MCQ Question:** How many types of relational calculus are there? **Options:** 1. 1 2. 2

3. 3

| Correct Answer: 2 |
|--|
| MCQ Question: Which of the following is a type of relational calculus? |
| Options: |
| Tuple Relational Calculus Domain Relational Calculus Both A and B None of the above |
| Correct Answer: Both A and B |
| MCQ Question: In a relation, are selected using the tuple relational calculus. |
| Options: |
| Attributes Tuples Relation Calculus |
| Correct Answer: Tuples |
| MCQ Question: in TRC use tuples from a relation. |
| Options: |
| Filtering Variables Unfiltering Variables Filtering Statics Unfiltering Statics |
| Correct Answer: Filtering Variables |
| MCQ Question: There can be tuples in the result of the relation. |
| Options: |
| One Two Three Many |

Correct Answer: Many

| MCQ Question: What is the notation to denote Tuple Relational Calculus? |
|---|
| Options: |
| 1. {T P (T)} 2. {P (T) T} 3. {P (T)} 4. {T} |
| Correct Answer: {T P (T)} |
| MCQ Question: What is the T in Tuple Relational Calculus's Notation? |
| Options: |
| Input Tuples Resulting Tuples Both A and B None of the above |
| Correct Answer: Resulting Tuples |
| MCQ Question: P(T) represents the condition that is used to T. |
| Options: |
| Get Fetch Both A and B None of the above |
| Correct Answer: Both A and B |
| MCQ Question: A is normalized after it has been organized. |
| Options: |
| Table Database Row Column |
| Correct Answer: Database |
| MCQ Question: By normalizing relations or sets of relations, one minimizes |
| Options: |

- Data
 Fields
- 3. Redundancy
- 4. Database

| Correct Answer | : Redundancy |
|----------------|--------------|
|----------------|--------------|

MCQ Question: In addition to removing undesirabe characteristics, normalization also eliminates ____ anomalies.

Options:

- 1. Insert
- 2. Update
- 3. Delete
- 4. All of the above

Correct Answer: All of the above

MCQ Question: A common approach to normalization is to ____ the larger table into smaller tables and link them together by using relationships.

Options:

- 1. Add
- 2. Subtract
- 3. Multiply
- 4. Divide

Correct Answer: Divide

MCQ Question: Redundancy is reduced in a database table by using the ____ form.

Options:

- 1. Abnormal
- 2. Normal
- 3. Special
- 4. None

Correct Answer: Normal

MCQ Question: In practical applications, how many types of Normal Forms are there?

Options:

1. 3

| 2. 4 3. 5 4. 6 |
|--|
| Correct Answer: 4 |
| MCQ Question: Which of the following is not a type of Normal Form? |
| Options: |
| 1. 1NF 2. 2NF 3. 3NF 4. 10NF |
| Correct Answer: 10NF |
| MCQ Question: Which of the following is a type of Normal Form? |
| Options: |
| ACNF BCNF CCNF DCNF |
| Correct Answer: BCNF |
| MCQ Question: When a relation contains an atomic value, it is a relation. |
| Options: |
| 1. 1NF 2. 2NF 3. 3NF 4. BCNF |
| Correct Answer: 1NF |
| MCQ Question: 2NF relations are those that are in 1NF with all the attribute types dependent on the key. |
| Options: |
| Primary Foreign Composite |

4. Alternate

Correct Answer: Primary