Reg. No

St. Joseph's College of Arts & Science (Autonomous)
St. Joseph's College Road, Cuddalore – 607001
B.Sc Degree Examination APRIL - 2019

CS509 – RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hrs **Max Marks :75**

SECTION – A (5X5=25)

Answer any **FIVE** Questions

1. Explain in detail about Schemas.
2. Write about Database users.
3. Illustrate about Mapping constraints.
4. What is Generalization? Explain with example.
5. Discuss about Domain relational calculus.
6. Define and explain First Normal Form.
7. Explain about Foreign Key Constraints.
8. Discuss about DML operations.

SECTION – B (5X10=50)

Answer any **FIVE** Questions

9. What is Data independence? Explain its types.
10. Explain the disadvantages of file processing system.

11. Explain in detail about Types of Attributes in DBMS with example.
12. Describe about E-R diagram in detail.
13. Write about Relational algebra in detail.
14. Discuss in detail about Fourth Normal Form.
15. Explain Integrity constraints with examples.
16. Discuss about Indexes and its types in SQL with example.

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CS509 - RELATIONAL DATA BASE MANAGEMENT SYSTEM

Time : 3 hrs **Max Marks :75**

SECTION – A (5X5=25)

Answer any **FIVE** Questions

1. Explain the purpose of Database system.
2. Explain about mapping constraints.
3. Write notes on Tuple relational calculus.
4. Compare 3NF and BCNF.
5. What are the set operations in SQL? Explain.
6. Explain the role of Database Administrator.
7. Write notes on Views.
8. Explain the following
   a. Natural Join
   b. Outer join

SECTION – B (5X10=50)

Answer any **FIVE** Questions

9. Describe the overall database system structure with neat diagram.
10. Explain the structure of E-R diagram with example.

11. What are the fundamental operations of Relational Algebra? Explain.
12. Describe the Fourth normal form.
13. Write notes on DDL and DML statements.
14. Explain about
    a. Numeric functions
    b. Date functions
15. Explain in detail about the Integrity constraints with example.
16. Draw an E-R diagram for simple bank operations.

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CS509 - RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hrs **Max Marks :75**

SECTION – A (5X5=25)

Answer any **FIVE** Questions

1. Write notes on Data abstraction.
2. Explain the following.
   a. Entity
   b. Attribute
   c. Primary Key
3. What are the Relational algebra additional operations? Explain.
4. Explain Boyce-Codd Normal form.
5. Write notes on Synonyms and Sequences.
6. Explain the following operators.
   a. Union
   b. Cartesian product
7. Discuss about the Set operations in SQL.
8. Write notes on Multivalued dependency.

F5U2/10N15

SECTION – B (5X10=50)

Answer any **FIVE** Questions

9. Discuss about
   a. Data model
   b. Database users
10. Explain the structure of E-R diagram with example.
11. Explain Tuple relational calculus and Domain relational calculus.
12. Explain about Normalization with functional dependency.
13. Write notes on DML and DCL statements.
14. Explain in detail about Locks.
15. Explain the Third normal form with example.
16. Draw an E-R diagram for a simple bank operation.

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St. Joseph's College of Arts & Science (Autonomous)
St. Joseph's College Road, Cuddalore – 607001
B.Sc Degree Examination - NOV 2018

CS509 – RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hrs Max Marks :75

SECTION – A (5X5=25)

Answer any **FIVE** Questions

1. Write a short note on Database Manager.
2. Explain generalization with example.
3. Explain: a) Select Operation b) Union Operation
4. Explain Fourth Normal Form with examples.
5. Discuss the following: a) Indexes b) Clusters
6. Explain about Keys with example.
7. What is joins? Explain with example.
8. Write the formal definition of Domain relational calculus.

SECTION – B (5X10=50)

Answer any **FIVE** Questions

9. Discuss in detail about the Database Administrator.
10. Explain relationshipsand relationship sets with examples.

11. Explain the tuple relational calculus with suitable examples.
12. Discuss Normalization using Multivalued Dependencies with examples.
13. Explain String Functions and Numeric functions.
14. Explain Instances and Schemas with Suitable examples.
15. Discuss about the relational algebra with example.
16. Explain the reducing E-R diagrams to tables with suitable Diagrams.

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St. Joseph's College of Arts & Science (Autonomous)
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B.Sc Degree Examination NOV 2021

CS509 – RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hrs **Max Marks :75**

SECTION – A (5X5=25)

Answer any **FIVE** Questions

1. Explain in detail about Purpose of database systems.
2. Write about Database manager.
3. Illustrate about Relationships and Relationship sets.
4. What is Aggregation? Explain with example.
5. Discuss about Tuple relational calculus.
6. Define and explain Third Normal Form.
7. Explain about Primary Key Constraints.
8. Discuss about DCL operations with example.

SECTION – B (5X10=50)

Answer any **FIVE** Questions

9. Describe about Data models in detail.
10. Explain about Overall system structure in DBMS.

11. Explain in detail about Entities and its types.
12. Explain mapping cordinalities with example.
13. Write about Relational algebra in detail.
14. Discuss in detail about Boyce – Codd normal form.
15. Explain Integrity constraints with example.
16. Discuss about ten various DML operations in SQL with example.

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