Code No: R05410410 | R05 | Set No. 2

IV B.Tech I Semester Examinations,November 2010
DATABASE MANAGEMENT SYSTEMS
Common to E.COMP.E, ETM, E.CONT.E, EIE, ECE

Time: 3 hours
Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. How does the remapping of bad sectors by disk controllers affect data retrieval rates ? [16]

2. Explain all the operations on B^+_tree by taking a sample example. [16]

3. (a) Explain in detail about the "Outer join" Operation.

   (b) For the following relational database, give the expressions in SQL. [8+8]
   Sailor_schema (sailor_id, sailorname, rating, Age) Reserves (sailor_id, Boat)id, day) Boat_Schema(Boat_id, boatname, color)

      i. find the name and age of the oldest sailors?
      ii. Count the No.of sailors?
      iii. Count the No.of different sailors names?
      iv. Find the names who are older than the oldest sailors with rating of 10?

4. (a) Define all operations of join operator. Why special attention is given for this?

   (b) What is an unsafe query? Give an example and explain why it is important to disallow such queries? [8+8]

5. (a) What is 2PL Locking protocol? Explain with suitable example? How does it guarantee serialazability? [12]

   (b) Differentiate between Strict 2PL & Rigorous 2PL [4]

6. (a) Write a short note on

      i. Reading uncommitted data(WR Conflict)
      ii. Unrepeatable reads(RW Conflict)
      iii. Overwriting uncommitted data(WW Conflict) [9]

   (b) Explain schedules involving aborted transaction with suitable examples. [7]

7. (a) Write about the storage manager of database system structure.

   (b) Discuss the Query Processor of Database system structure. [8+8]

8. (a) What is Normalization?give types of normalization

   (b) What are the advantages of normalized relations over the un normalized relations? [8+8]

⋆ ⋆ ⋆ ⋆

1

Code No: R05410410 | **R05** | **Set No. 4**

IV B.Tech I Semester Examinations,November 2010
DATABASE MANAGEMENT SYSTEMS
Common to E.COMP.E, ETM, E.CONT.E, EIE, ECE

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. (a) Explain in detail about the "Outer join" Operation.
   (b) For the following relational database, give the expressions in SQL.   [8+8]
       Sailor_schema (sailor_id, sailorname, rating, Age) Reserves (sailor_id, Boat)id,
       day) Boat_Schema(Boat_id, boatname, color)
       i. find the name and age of the oldest sailors?
       ii. Count the No.of sailors?
       iii. Count the No.of different sailors names?
       iv. Find the names who are older than the oldest sailors with rating of 10?

2. Explain all the operations on B^+_tree by taking a sample example.   [16]

3. (a) Write about the storage manager of database system structure.
   (b) Discuss the Query Processor of Database system structure.   [8+8]

4. (a) Write a short note on
       i. Reading uncommitted data(WR Conflict)
       ii. Unrepeatable reads(RW Conflict)
       iii. Overwriting uncommitted data(WW Conflict)   [9]
   (b) Explain schedules involving aborted transaction with suitable examples.   [7]

5. (a) What is 2PL Locking protocol? Explain with suitable example? How does it
       guarantee serialazability?   [12]
   (b) Differentiate between Strict 2PL & Rigorous 2PL   [4]

6. (a) What is Normalization?give types of normalization
   (b) What are the advantages of normalized relations over the un normalized rela-
       tions?   [8+8]

7. (a) Define all operations of join operator. Why special attention is given for
       this?
   (b) What is an unsafe query? Give an example and explain why it is important
       to disallow such queries?   [8+8]

8. How does the remapping of bad sectors by disk controllers affect data retrieval rates
   ?   [16]

⋆ ⋆ ⋆ ⋆

2

Code No: R05410410 | **R05** | **Set No. 1**

IV B.Tech I Semester Examinations,November 2010
DATABASE MANAGEMENT SYSTEMS
Common to E.COMP.E, ETM, E.CONT.E, EIE, ECE

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. (a) Define all operations of join operator. Why special attention is given for this?
   (b) What is an unsafe query? Give an example and explain why it is important to disallow such queries?   [8+8]

2. (a) Explain in detail about the "Outer join" Operation.
   (b) For the following relational database, give the expressions in SQL.   [8+8]
   Sailor_schema (sailor_id, sailorname, rating, Age) Reserves (sailor_id, Boat)id, day) Boat_Schema(Boat_id, boatname, color)
       i. find the name and age of the oldest sailors?
       ii. Count the No.of sailors?
       iii. Count the No.of different sailors names?
       iv. Find the names who are older than the oldest sailors with rating of 10?

3. Explain all the operations on B^+_tree by taking a sample example.   [16]

4. How does the remapping of bad sectors by disk controllers affect data retrieval rates ?   [16]

5. (a) What is Normalization?give types of normalization
   (b) What are the advantages of normalized relations over the un normalized relations?   [8+8]

6. (a) Write about the storage manager of database system structure.
   (b) Discuss the Query Processor of Database system structure.   [8+8]

7. (a) Write a short note on
       i. Reading uncommitted data(WR Conflict)
       ii. Unrepeatable reads(RW Conflict)
       iii. Overwriting uncommitted data(WW Conflict)   [9]
   (b) Explain schedules involving aborted transaction with suitable examples.   [7]

8. (a) What is 2PL Locking protocol? Explain with suitable example? How does it guarantee serialazability?   [12]
   (b) Differentiate between Strict 2PL & Rigorous 2PL   [4]

⋆ ⋆ ⋆ ⋆

3

Code No: R05410410   **R05**   **Set No. 3**

IV B.Tech I Semester Examinations,November 2010
DATABASE MANAGEMENT SYSTEMS
Common to E.COMP.E, ETM, E.CONT.E, EIE, ECE
Time: 3 hours   Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. (a) Write about the storage manager of database system structure.

   (b) Discuss the Query Processor of Database system structure.   [8+8]

2. (a) Write a short note on

      i. Reading uncommitted data(WR Conflict)
      ii. Unrepeatable reads(RW Conflict)
      iii. Overwriting uncommitted data(WW Conflict)   [9]

   (b) Explain schedules involving aborted transaction with suitable examples.   [7]

3. (a) What is 2PL Locking protocol? Explain with suitable example? How does it
       guarantee serialazability?   [12]

   (b) Differentiate between Strict 2PL & Rigorous 2PL   [4]

4. How does the remapping of bad sectors by disk controllers affect data retrieval rates
   ?   [16]

5. (a) Define all operations of join operator. Why special attention is given for
       this?

   (b) What is an unsafe query? Give an example and explain why it is important
       to disallow such queries?   [8+8]

6. (a) What is Normalization?give types of normalization

   (b) What are the advantages of normalized relations over the un normalized rela-
       tions?   [8+8]

7. (a) Explain in detail about the "Outer join" Operation.

   (b) For the following relational database, give the expressions in SQL.   [8+8]
       Sailor_schema (sailor_id, sailorname, rating, Age) Reserves (sailor_id, Boat)id,
       day) Boat_Schema(Boat_id, boatname, color)

      i. find the name and age of the oldest sailors?
      ii. Count the No.of sailors?
      iii. Count the No.of different sailors names?
      iv. Find the names who are older than the oldest sailors with rating of 10?

8. Explain all the operations on B^+_tree by taking a sample example.   [16]

⋆ ⋆ ⋆ ⋆

4