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Question Paper Code: 41245

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fourth Semester

Computer Science and Engineering

14UCS405 - DATABASE MANAGEMENT SYSTEMS

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- _____ users form their requests in a database query language.
(a) Naïve (b) Sophisticated (c) Specialized (d) Programmer
- An instance of a relation that satisfies all real-world constraints is called a _____ of the relation.
(a) logical instance (b) legal instance
(c) real instance (d) perfect instance
- Which SQL statement is used to extract data from a database?
(a) SELECT (b) OPEN (c) EXTRACT (d) GET
- The _____ SQL component of SQL allows programs to construct and submit SQL queries at runtime.
(a) Dynamic (b) Embedded (c) Static (d) None of these
- _____ property keeps track of old values if failure happens, it restores the old values to make transaction rolled back.
(a) Durability (b) Atomicity (c) Isolation (d) Consistency

- (b) (i) Explain the different kinds of data models. (8)
- (ii) Explain Boyce-Codd normal form with example and also compare BCNF and 3NF. (8)
- 17.(a) Explain the different algorithms used for selection operation and their associated cost. (16)
- Or
- (b) (i) Examine the steps involved in query processing. (8)
- (ii) List out the different selection operations involved in query processing. (8)
18. (a) Identify the occurrence of deadlock in a system. Explain the two approaches to prevent deadlock. (16)
- Or
- (b) Discuss in detail about transaction properties and two phase commit protocol. (16)
19. (a) List the different levels in RAID and explain its features. (16)
- Or
- (b) Explain the architectural components of a Data warehouse. (16)
20. (a) Explain in detail the database security. (16)
- Or
- (b) Draw the Information Retrieval framework and explain its process. (16)
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