



Manipal Institute of Technology

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Constituent Institute of Manipal University

IV SEMESTER B. TECH. INTERNAL EXAMINATIONS FEBRUARY 2019

TEST-1

SUBJECT: DATABASE SYSTEMS (CSE 2204)

Date of Exam: 15-2-2019

10:15 AM – 11:15 AM

Max. Marks: 15

Instructions to Candidates:

- Answer ALL questions & missing data may be suitably assumed.

1A. Which of the following is not correct?
 A. GROUP BY logically partitions the table; no physical rearranging is done.
 B. Each expression in the SELECT must be a single value per group when GROUP BY is used.
 C. It is not possible use WHERE and then use GROUP BY in the same query.
 D. HAVING is to GROUP BY as WHERE is to SELECT. 0.5

1B. Consider the following relational schema:
 Suppliers(sid:integer, sname:string, city:string, street:string)
 Parts(pid:integer, pname:string, color:string) Supplied(sid:integer, pid:integer, cost:real)
 Consider the following relational query on the above database:
 SELECT S.sname FROM Suppliers S
 WHERE S.sid NOT IN (SELECT C.sid FROM Supplied C
 WHERE C.pid NOT IN (SELECT P.pid FROM Parts P
 WHERE P.color <> 'blue'))
 Assume that relations corresponding to the above schema are not empty. Which one of the following is the correct interpretation of the above query?
 A. Find the names of all suppliers who have not supplied a non-blue part.
 B. Find the names of all suppliers who have supplied only blue parts.
 C. Find the names of all suppliers who have not supplied only blue parts.
 D. Find the names of all suppliers who have supplied a non-blue part. 0.5

1C. Which of these operators selects values that match any value in a given list of values?
 A. IN B. LIKE C. BETWEEN D. EXISTS 0.5

1D. Table Instructor has 10 rows. It has a non-NULL salary column which is also UNIQUE.
 The SQL statement, select count(*) from Instructor where salary > some(select salary from Instructor) gives
 A. 10 B. 9 C. 5 D. 0 0.5

1E. Predicate _____ can be used to check whether relation X is subset of relation Y or not.
 A. Exists (X = Y)
 B. Exists(Y = X)
 C. Not Exists (X = Y)
 D. Not Exists(Y = X) 0.5

2A. The ability to modify the physical schema without changing the logical schema is called _____
 A. Logical Schema
 B. Physical Schema
 C. Logical Data Independence
 D. Physical Data Independence 0.5

2B. In designing a database schema, we must ensure that we avoid two major pitfalls such as _____ and _____
 A. Redundancy & Incompleteness
 B. Redundancy & Inefficiency
 C. Inefficiency & Interdependence
 D. Interdependence & Atomicity 0.5

Manipal University Mtech Mechanical Sample Paper

**Who's Who Marquis,Marquis Who's
Who**

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ANSYS 2020: STRUCTURAL ANALYSIS USING THE ANSYS MECHANICAL APDL RELEASE 2020 R1

ENVIRONMENT R B Choudary,2021-08-09 ANSYS is a large and complex program with various capabilities This book is intended to help the ANSYS user in getting started The four chapters in this book introduce the reader to effective finite element problem solving by demonstrating the use of the comprehensive ANSYS FEM software in a series of step by step tutorials The contents include ANSYS Basics ANSYS Operations Modeling and Meshing and Structural Analysis This book provides its reader with an up to date information on the ANSYS software [Data-Driven Optimization of Manufacturing Processes](#) Kalita, Kanak,Ghadai, Ranjan Kumar,Gao, Xiao-Zhi,2020-12-25 All machining process are dependent on a number of inherent process parameters It is of the utmost importance to find suitable combinations to all the process parameters so that the desired output response is optimized While doing so may be nearly impossible or too expensive by carrying out experiments at all possible combinations it may be done quickly and efficiently by using computational intelligence techniques Due to the versatile nature of computational intelligence techniques they can be used at different phases of the machining process design and optimization process While powerful machine learning methods like gene expression programming GEP artificial neural network ANN support vector regression SVM and more can be used at an early phase of the design and optimization process to act as predictive models for the actual experiments other metaheuristics based methods like cuckoo search ant colony optimization particle swarm optimization and others can be used to optimize these predictive models to find the optimal process parameter combination These machining and optimization processes are the future of manufacturing Data Driven Optimization of Manufacturing Processes contains the latest research on the application of state of the art computational intelligence techniques from both predictive modeling and optimization viewpoint in both soft computing approaches and machining processes The chapters provide solutions applicable to machining or manufacturing process problems and for optimizing the problems involved in other areas of mechanical civil and electrical engineering making it a valuable reference tool This book is addressed to engineers scientists practitioners stakeholders researchers academicians and students interested in the potential of recently developed powerful computational intelligence techniques towards improving the performance of machining processes [IETE Technical Review](#) ,2005 **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12

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