Question One: Fundamental of DBMS (6 marks)

a. Two transactions have their operations interleaved in the following way.

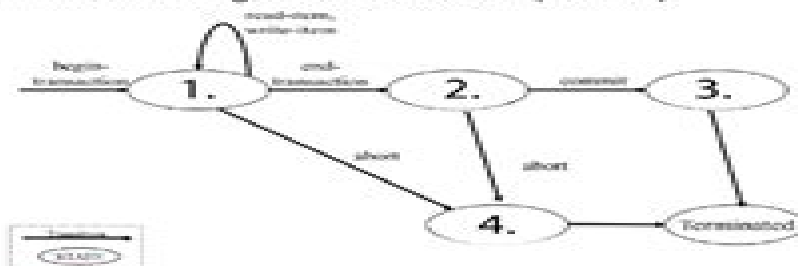| T1	T2
read-item(X);	
X:=X-N;	
	read-item(X);
	X:=X+M;
write-item(X);	
read-item(Y);	
	write-item(X);
Y:=Y+N;	
write-item(Y);	

Is there any concurrency problem? If so, explain the problem? (2 marks)

There will be a lost update problem, this is because both transactions read item X, and then perform a calculation on this item. T1 then writes a new value back for X, as does T2. Thus, the original write completed by T1 is lost.

b. What is the system log? What is the purpose of the system log? (2 marks)

The system log keeps track of the state of a transaction, that is, it keeps track of prepare, commit/abort, complete, etc. messages. This enables a transaction to be recovered and re-done (or aborted) after a site failure.

c. Fill in the missing transaction states. (2 marks)

1. Active
2. Partially committed
3. Committed
4. Failed

Database Systems Exam Questions And Answers

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MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE QUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE DATABASE MANAGEMENT SYSTEM MCQ TO EXPAND YOUR DATABASE MANAGEMENT SYSTEM KNOWLEDGE AND EXCEL IN QUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE QUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY   Advanced Database Systems Nabil R. Adam,Bharat K. Bhargava,1993-12-08 Database management is attracting wide interest in both academic and industrial contexts New application areas such as CAD CAM geographic information systems and multimedia are emerging The needs of these application areas are far more complex than those of conventional business applications The purpose of this book is to bring together a set of current research issues that addresses a broad spectrum of topics related to database systems and applications The book is divided into four parts object oriented databases temporal historical database systems query processing in database systems heterogeneity interoperability open system architectures multimedia database systems   **Guide To Database Management Systems (q & A)** Prof.Satish Jain, This guide contains questions with answers likely to be asked in the question paper set for DBMS for B E Comp Sc MCA M Sc IT PGDCA and other IT related examinations It includes eight Chapters and each chapter contains important questions with answers This guide covers questions related to concepts of DBMS architecture administration and fundamentals of database design It covers topics like entity relationship diagram normalization aggregation functional dependencies and clustering It contains questions related to transaction processing security concurrency control database recovery and query processing Separate chapters are added to give coverage of SQL and Relational Algebra and Calculus Ample numbers of diagrams are used to illustrate the answers for easy understanding Sample papers with answers are also added at the end of this guide to evaluate progress buy readers Separate section is added to cover short questions with answers to prepare readers to answers objective type of questions that might be asked in examination and to assess their comprehension about the entire subject A glossary of numerous technical terms is included for easy understanding of the subject matter   *Database Systems* Elvis C. Foster,Shripad V. Godbole,2022-09-26 This book provides a concise but comprehensive guide to the disciplines of database design construction implementation and management Based on the authors professional experience in the software engineering and IT industries before making a career switch to academia the text stresses sound database design as a necessary precursor to successful development and administration of database systems The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure and that proper database design and management is integral to the success of a software system

Additionally students are led to appreciate the huge value of a properly designed database to the success of a business enterprise The text was written for three target audiences It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems graduate students who are pursuing an introductory course to database and practicing software engineers and information technology IT professionals who need a quick reference on database design Database Systems A Pragmatic Approach 3rd Edition discusses concepts principles design implementation and management issues related to database systems Each chapter is organized into brief reader friendly conversational sections with itemization of salient points to be remembered This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested proven and refined over several years Features of the third edition include Short paragraphs that express the salient aspects of each subject Bullet points itemizing important points for easy memorization Fully revised and updated diagrams and figures to illustrate concepts to enhance the student s understanding Real world examples Original methodologies applicable to database design Step by step student friendly guidelines for solving generic database systems problems Opening chapter overviews and concluding chapter summaries Discussion of DBMS alternatives such as the Entity Attributes Value model NoSQL databases database supporting frameworks and other burgeoning database technologies A chapter with sample assignment questions and case studies This textbook may be used as a one semester or two semester course in database systems augmented by a DBMS preferably Oracle After its usage students will come away with a firm grasp of the design development implementation and management of a database system *DATABASE SYSTEMS WITH CASE STUDIES* BERNARD, MARGARET,BACHU, ESHWAR,2015-10-04 Database Systems with Case Studies covers exactly what students needs to know in an introductory database system course This book focuses on database design and exposes students to a variety of approaches for getting the Data Model right The book addresses issues related to database performance Query Processing and Transaction Management for multi user environments This book also introduces non relational XML format to students The approach taken to teach the topics is through introduction of many real world enterprise database case studies and practice problems The case studies are selected based on modern application areas keeping the student s interest in mind The book provides hands on experience of database design issues with several ready made lab exercises For grading students understanding of the topics several challenging assignments are also provided at the end of chapters Multiple choice self tests are provided for formative assessment throughout the book The book is suitable for the undergraduate students of Computer Science and Engineering Information Technology and students of Computer Applications BCA MCA Key features All the topics are illustrated with practical examples Topics like Entity Relationship diagram ERD are discussed with Diagrams and Visual Aids Students are exposed to the various approaches for determining data requirements Structured Query Language SQL examples are worked with scripts results and solutions Exclusive lab exercises on SQL can be used as assignments **Principles of Database**

Management Wilfried Lemahieu,Seppe vanden Broucke,Bart Baesens,2018-07-12 Introductory theory practice balanced text teaching the fundamentals of databases to advanced undergraduates or graduate students in information systems or computer science   *Hands On Relational Database Management System RDBMS-1000+ MCQ* Harry Chaudhary.,2018-09-11 Our 1000 Relational Database Management System Questions and Answers focuses on all areas of Relational Database Management System subject covering 60 topics in Relational Database Management System These topics are chosen from a collection of most authoritative and best reference books on Relational Database Management System One should spend 1 hour daily for 15 days to learn and assimilate Relational Database Management System comprehensively This way of systematic learning will prepare anyone easily towards Relational Database Management System interviews online tests Examinations and Certifications Highlights 1000 Basic and Hard Core High level Multiple Choice Questions Answers in Relational Database Management System with Explanations Prepare anyone easily towards Relational Database Management System interviews online tests Government Examinations and certifications Every MCQ set focuses on a specific topic in Relational Database Management System Specially designed for IBPS IT SBI IT RRB IT GATE CSE UGC NET CS KVS PGT CS PROGRAMMER and other IT Computer Science related Exams Who should Practice these Relational Database Management System Questions Anyone wishing to sharpen their skills on Relational Database Management System Anyone preparing for aptitude test in Relational Database Management System Anyone preparing for interviews campus off campus interviews walk in interviews Anyone preparing for entrance examinations and other competitive examinations All Experienced Freshers and Students   Exam Ref 70-764 Administering a SQL Database Infrastructure Victor Isakov,2017-09-26 Prepare for Microsoft Exam 70 764 and help demonstrate your real world mastery of skills for database administration This exam is intended for database administrators charged with installation maintenance and configuration tasks Their responsibilities also include setting up database systems making sure those systems operate efficiently and regularly storing backing up and securing data from unauthorized access Focus on the expertise measured by these objectives Configure data access and auditing Manage backup and restore of databases Manage and monitor SQL Server instances Manage high availability and disaster recovery This Microsoft Exam Ref Organizes its coverage by exam objectives Features strategic what if scenarios to challenge you Assumes you have working knowledge of database installation configuration and maintenance tasks You should also have experience with setting up database systems ensuring those systems operate efficiently regularly storing and backing up data and securing data from unauthorized access About the Exam Exam 70 764 focuses on skills and knowledge required for database administration About Microsoft Certification Passing both Exam 70 764 and Exam 70 765 Provisioning SQL Databases earns you credit toward an MCSA SQL 2016 Database Administration certification See full details at microsoft com learning   **Database systems, examination paper** ,1997   **The Soul of A New Machine** Tracy Kidder,2011-08-23 Tracy Kidder s riveting Washington Post story of one

company s efforts to bring a new microcomputer to market won both the Pulitzer Prize and the National Book Award and has become essential reading for understanding the history of the American tech industry Computers have changed since 1981 when The Soul of a New Machine first examined the culture of the computer revolution What has not changed is the feverish pace of the high tech industry the go for broke approach to business that has caused so many computer companies to win big or go belly up and the cult of pursuing mind bending technological innovations The Soul of a New Machine is an essential chapter in the history of the machine that revolutionized the world in the twentieth century Fascinating A surprisingly gripping account of people at work Wall Street Journal

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