

Sub Code 18CS53



Dr. Ambedkar Institute of Technology, Bangalore – 56 (An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgaum)

5th Semester B.E. Degree (Autonomous) Continuous Internal Evaluation - Makeup Odd Semester 2020-21

Date: 07-1-2021	Sub. Title: Data Base Management System	Timings: 1.30 PM – 2.30 PM
Day: Thursday	Sub. Code: 18CS53	Time duration : 1hour
Programme : B.E		Max marks: 25
(CSE)		
Semester : V		Staff in-charge: Mrs. Asha
	CIE – Makeup	Mrs. Veena
		Potdar

Q. No.		Note: Answer ALL the questions		Course Outcome s	BTL* Cognitive Level
1	a)	Explain any five logical operators in SQL with the help of suitable examples.	5 M	CO3	L2
	b	Explain Lock-based Concurrency control with diagram.	5 M	CO4	L2
2	a)	Discuss briefly the problems that arise in the absence of concurrency control.	5 M	CO4	L2
	b	Write & explain the algorithm for Testing Conflict Serializability of a Schedule S with the help of an example.	5 M	CO4	L2
		OR			
	c)	Consider the following schema: EMPLOYEE(Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno) DEPARTMENT(Dname, Dnumber, Mgr_ssn, Mgr_start_date) DEPT_LOCATIONS(Dnumber, Dlocation) PROJECT(Pname, Pnumber, Plocation, Dnum) WORKS_ON(Essn, Pno, Hours) DEPENDENT(Essn, Dependent_name, Sex, Bdate, Relationship) Write the following using SQL queries: 1. Alter the table Project to include Proj_Mgr_Ssn as a new column which refers to the Ssn in the Employee table. 2. Write a query to display the department names sorted in descending order & in each department, the employee first names to be displayed in ascending order.	5 M	CO3	L3

BTL* - Bloom's Taxonomy Level

Name & Signature of Faculty

Approved By HOD

Mrs. Asha -

Mrs. Veena Potdar -

Quiz/Objective Type Questions			Sub Code: 18CS53					
Note: Answer ALL the questions								
1.	Which of the following is not a transaction state?							
	A	Active	В	Partially committed	С	Failed	D	Compensated
2.	A	transaction that has not	ransaction that has not been completed successfully is called as					
	A	Aborted transaction	В	Active transaction	С	Partially committed transaction	D	None of above
3.	What are the ACID Properties of transaction?							
	A	Atomicity, Consistency, Inconsistent, Durability	В	Atomicity, Consistency, Inconsistent, Database	С	Automatically, Consistency, Inconsistent, Durability	D	Atomicity, Consistency, Isolation, Durability
4.	If two transactions T1 and T2 both read the same data and update it then effect of first update will be overwritten by the second update is known as					first update will be		
	A	Race Condition	В	Run Situation	C	Concurrent Access	D	None of above
5.	Which of the following are problems of concurrency control in multi-user environment							
	A	Lost-Update Problem	В	Dirty Read Problem	C	Inconsistent Retrieval Problem	D	All of above
6.	The execution sequences in concurrency control is known as							
	A	Schedules	В	Serializability	С	Organizations	D	Timetable
7.	The technique that controls the interaction between more than one executing transactions is known as					is is known as		
	A	Multitasking technique	В	Serialization technique	С	Schedule technique	D	Concurrency control technique
8.	Transactions T1 and T2 concurrently perform some operations on the same data item and at least one of them is write operation then these transaction known as					and at least one of		
	A	Conflicting	В	Overwriting	С	Non-Conflicting	D	None of above
9.	If a transaction can be granted a lock on an item immediately in spite of the presence of another type of lock, then the two locks are said to be					e of another type of		
	A	Concurrent	В	Conflict	C	Equivalent	D	Compatible
10	A transaction is not allowed to release any lock until it commits is known as							
	A	Rigorous Two Phase Locking	В	Strict Two Phase Locking	С	Shrinking Two Phase Locking	D	Binary Lock