National University of Computer and Emerging Sciences Lahore Campus

Advance Database Systems

Date: 06-02-2025

Instructor(s)

Mr. Muhammad Naveed

Roll No

BSE-6A

Quiz #01

Course code: CS4064

Total marks: 25

Questions: 2

Student Signature

Attempt all the questions.

CLO 3#: To develop a database solution for given scenario/challenging problem in the domain of database

Q1: Consider the following classes of schedules: conflict-serializable, view serializable, recoverable, * cascadeless, and strict. For each of the following schedules, state which of the preceding classes it belongs to. If you cannot decide whether a schedule belongs in a certain class based on the listed actions, explain briefly. The actions are listed in the order they are scheduled. If a commit or abort is not shown, the schedule is incomplete; assume that abort or commit must follow all the listed actions. Also draw precedence graph for

each schedule. [10] [3/ S1: r2(X), w3(X), c3, w1(Y), r2(Y), r2(Z), c2, r1(Z), c1. 52: r2(X), w3(X), w1(Y), r2(X), w2(Z) book as cycle), view scriptizeable (Ha

CLO 3#: To develop a database solution for given scenario/challenging problem in the domain O2: For the schedule S: r2(X), m2(X)	
clo 3#: To develop a database solution for given scenario/challenging problem in the domain	
O2: For the schedule Strates and the schedule	of database
be accepted/rejected in exactly the order shown by the below protocols. Provide proper reason working. [5] Basic 2PL (add locks to the transactions) with himestory wing deallar avoidance.	n and show your
Y P(x) white-lack (x) - will last 2 Files T3 Hence, Sw White-lack (x) - will last 2 Files T3 Concepted be considered to the constant of the the constant	will be
CLO 3#: To develop a database solution for given scenario/challenging problem in the domest	in of database
S: r1(W); r2(X); w3(X); w1(Y); r2(Y); r2(Z); r3(Y); w1(Z) Draw the serializability (Precedence)graph for this schedule. State whether this schedule is serializable or not. If the schedule is conflict-serializable, write down the equivalent serial serial serializable.	conflict-
otherwise explain why it is not. S T T T P(K) P(K)	
1(N) - P(X) - W(X) -	
-P(Y) At graph contains cycle, not conflict socializeable.	so it is
1(2)	
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