

St. Mira's College for Girls,
(Autonomous-Affiliated to Savitribai Phule Pune University)

Class: SYBBA(CA)

Subject: *Relational Database Management*
system

Subject Code: BC31601

SEM III
(2018-19)

Unit 4: Recovery

Skill Development – Problem solving

Date: 7/3/2018

ASSIGNMENT-1 OF RELATIONAL DATABASE MANAGEMENT SYSTEM

9/75
Dhaga

NAME :- ISHA
CHAUHAN

ROLLNO :- 11839

CLASS :- SYBCA

Dhaga
Deepali Gupta
(Subject Teacher)



Jh
Principal Incharge
St. Mira's College for Girls

Q) Following are the log entries at the time of system crash.

[start - transaction, T_1]

[read - item, T_1 , D]

[write - item, T_1 , D, 20]

[commit T_1]

[checkpoint]

[start - transaction T_2]

[read - item, T_2 , B]

[write - item, T_2 , B, 12]

[start - transaction, T_3]

[write - item, T_3 , A, 20]

[read - item, T_2 , D]

[write - item, T_3 , D, 25] ← System Crash

If deferred update technique with checkpoint is used, what will be the recovery procedure?

- A) T_1 is committed before the last system checkpoint so it is stored on secondary storage. Hence it need not be Redone. Transactions T_2 and T_3 are ignored, because they did not reach their commit points i.e T_2 and T_3 do not have commit instruction before the system crash. T_2 and T_3 are active and did not commit we cancel their operation of T_2 and T_3 .

Deepali
Deepali Gupta
Subject Teacher.



JL
Principal Incharge
St. Mira's College for Girls