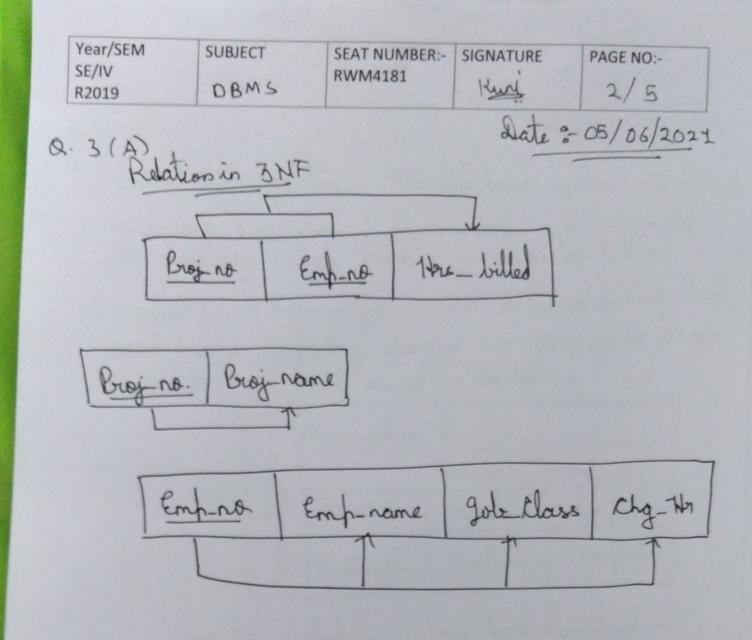
PAGE NO:-SIGNATURE SEAT NUMBER:-Year/SEM SUBJECT Database Marage RWM4181 Kury SE/IV ment system R2019 Date - 05/06/2021 8.3(A) Broj stane Empro Emprane get alose the to How will Solution :-Normalized Relation, Employees (broj no, Empro, Broj-name, Emprame, gole blass, Chg-thr, the Billed With set of FDs Broj-no, Emp-no -> Broj-name, Emp-name, gole_Class, Chg_Hor, Ars_Billed & Enf-no -> Enf-name, gob_ Class, Chg_Hr

Broj-no. -> broj-name

gole class -> Chy_1+7



Year/SEM SUBJECT SEAT NUMBER:-SIGNATURE PAGE NO:-SE/IV RWM4181 DBMS 3/5 Kury R2019 Date: 05/06/2021 Q.3 (B) Ronflict Serializability: The database system must control concurrent escecution of transactions which ensure the the database state remains in consistent state. 2) conflict: A fair of consecutive database actions (roads, writes) is in conflict if changing their order would change the result of at least one of the transactions. Transaction Ti Read (0) | White (0)

Read (0) | White (0)

Read (0) | White (0)

Read (0) | Conflict | Conflict

Read (0) | Conflict | Conflict Conflict Conflict Consider schedule S has two consecutive printegrate Tons it encitagest more it bus ; I encitameteris If I i and I i access to different data items then they will not soft conflict and can be swapped, without any problem. If Ii Fand Ii access son to some data item Other

consider following consequences:

I i = READ(D), I; = READ(D) then no conflict as

they only read us value.
This operation is called as non conflicting swap.

I; = READ(0), I; = READ(D) they they

conflict and carnot be swapped.

PAGE NO:-SIGNATURE SEAT NUMBER:-SUBJECT Year/SEM 43/5 RWM4181 Kury SE/IV OBMS R2019 Note: 05/06/2021 Q. 3(B) I := Write (0), I := Read (0) then they conflict and carnot be surpled. Ii = Write (0), I; = Write (0) then they conflict and carrot be washed. Lo we can say that instructions conflict if both consecutive instructions operate an son some data item and from different transactions and one of them is WRITE obseration. operation. If I i and I access to different data item D then coisider following all consequences no conflict as they only read on writing different values. I; = READ(0) / WRITE(0) , I; = READ(P) /#

VRITED) Henro conflict as they only reading or writing different data. The following set of actions is conflicting: T :: R(X) T2: W(X) T5: W(X) orthite the following set of actions is non conflicting: T, : R(x), T2: R(x), T3: R(x) T, :R(x), T2:W(Y), T3:R(x)

PAGE NO:-SEAT NUMBER:-SIGNATURE Year/SEM SUBJECT SE/IV RWM4181 Kury 5 1/5 DBML R2019 date: 05/06/2021 Q.3 (B) Miew Socialization: - Viene to equivalent to a social schedule of some transactions then it is view socializable. Conditions for view equivalence : Let D = Data item S1, S2 = Dransaction schedules Tisti = Latabase transactions -> Schedules & 1 and 5, are view equivalent if they satisfy following conditions for each data item (0): a) It Ti reads value of Dwenter by Ti ins, then Ti also reads value of D writter by t; is s.
b] 467i writes final value of Dis S1, then t; also writes final value of Dis S2. and also they sat are forforming same ofercations data. It is reads intial value of Din S1, then is also reads intial value of Din S1, then is