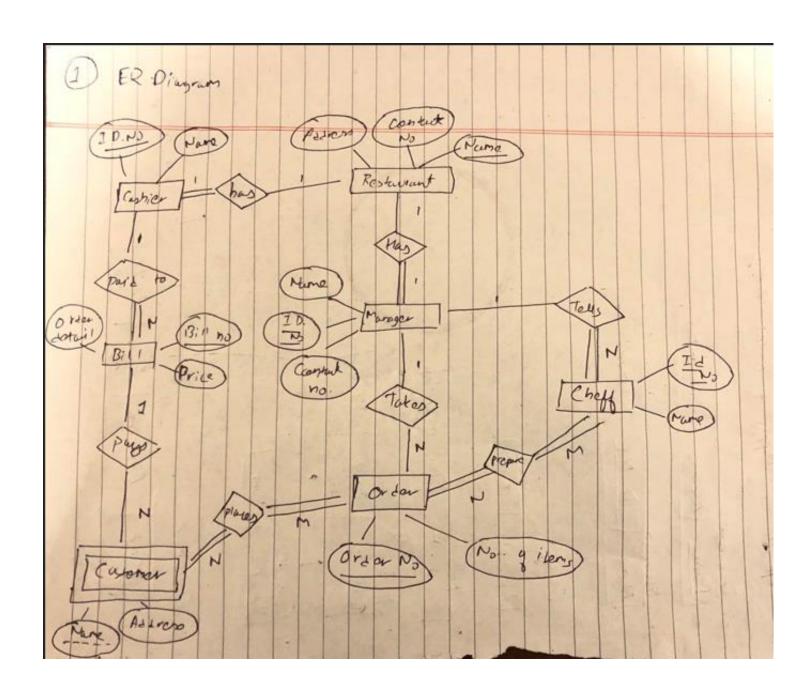
Course: DBMS

Digital Assignment

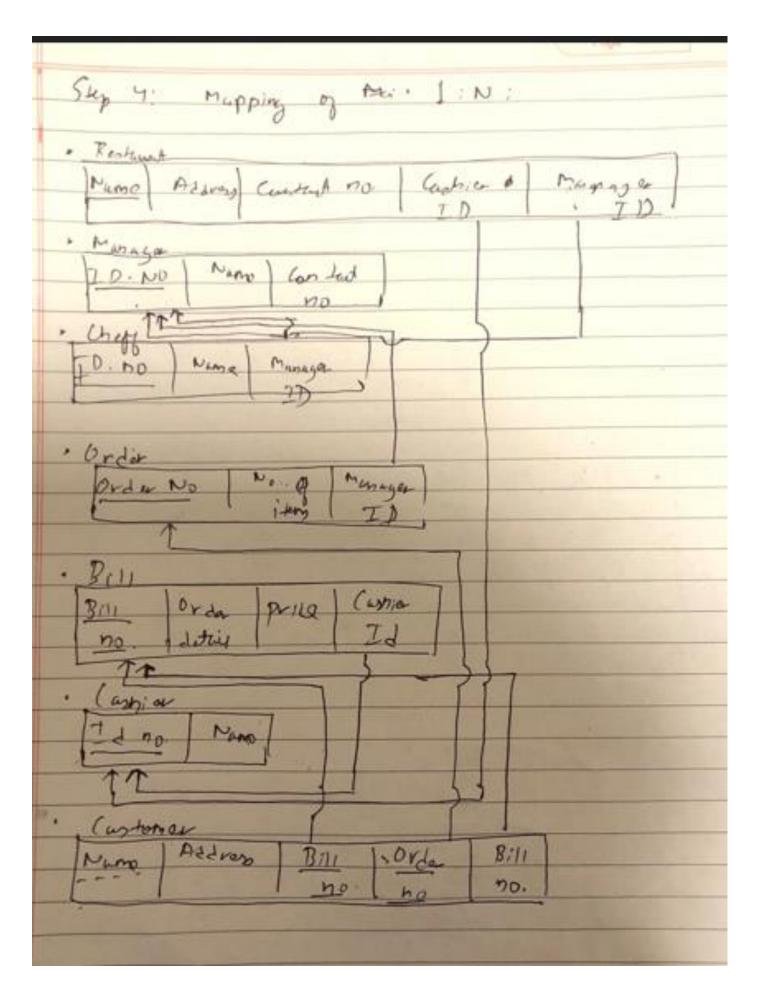
Done by: Prithak Gajurel Registration Number: 20BCE2921

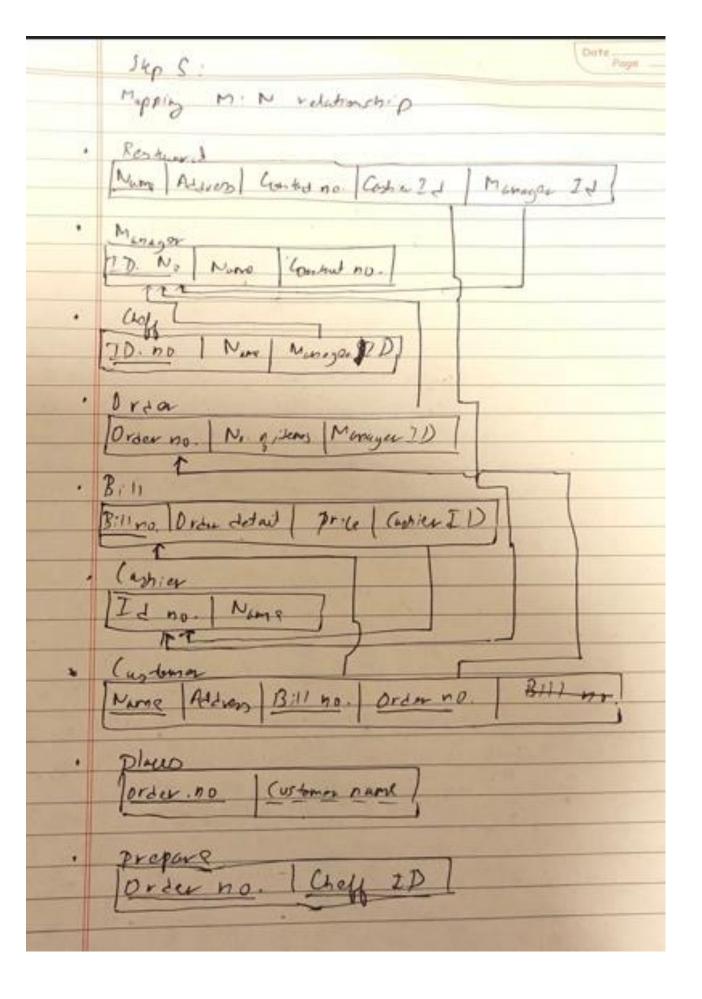
Draw the ER diagram of the database maintained to run a restaurant. Convert the ER diagram into corresponding tables. [10]



	now,
	Mupping the ER disquess to toble
0.00	Step I: Mapping Strong Certity:
	Resolutions
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	Marager
	Musse ID. No (contact no.
-	Chebb
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	[Les 100 2 13]
	R; 11
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19	1Id. No Nure
	The state of the s

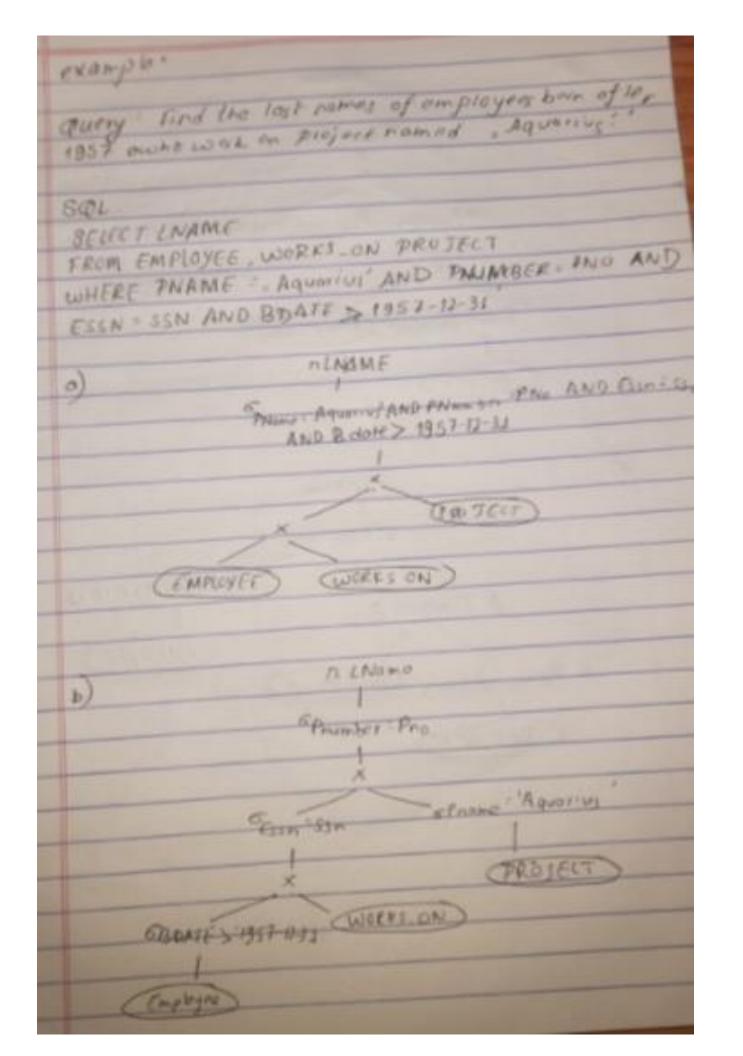
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- Resturant						
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Managa						
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· Cheff						
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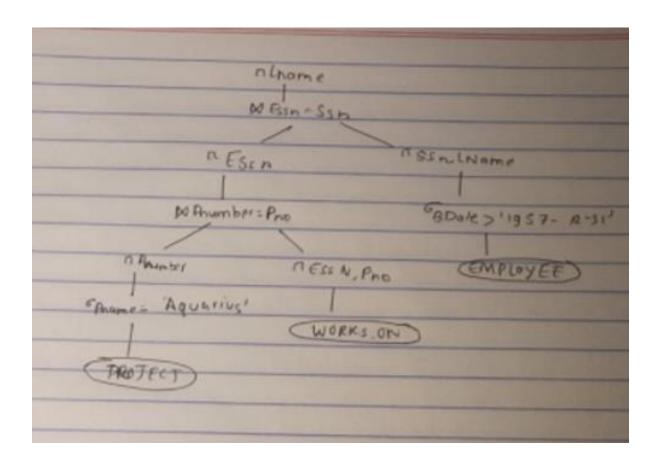


Hung distanced velotional algebras expressions and hence many different group trees can be sensely equivalent, that is they can represent the same years and produce to some vesults. The gray parson will dypliate generate a standard in it and quary the to corresponding to the sol green without doing any openization A unonial gray tree represents a resuboral algebra expression that is very inefficient if executed a mostly, because of carrying product (x) productions produt (x) specificus. The hourse, query optimizer will trustorm this initial query tree into or cycluded find query tree that I exercise The optimizer muse indude roles for equivalence coming valdiend algebra expressione that can be applied to transfer on the inited three into the final, optimized quay the The way how a given tree is transformal using harstis to given below:

1) Aradup 'select ' operations with conjunctive conditions into a casual of SELECT operators 2) wing to commutativity of SELECT involved in select condition 3) using commutativity and associativity the left notes of the PRODUCT opaches with a subsegunt states operators in the tree into a & JUZN operation, if a condition represents a ju juin apa sty 5) Brak down and more 10+5 9 p projection attributes down the free of creating new po TROJE (7 opensions 6) Identify sub-trees that represent be crewial by a shipe digurithing



Sandlys ntroma 0 Essn = Ssn Bdak > 1957-12-31 6 Prumber : Pra (EMPLOYEE) Thome - Aquerius (WORKS ON) PROJECT d) 17 Lnome DESSN-SSN Bdote >1957-12-31 M Phumber: Pro (EMPLOYEE) 6 Prieme Aguerry (WORKS, ON) PRUJECT



	Debu					
(2)	Dote					
In hinay tocks	Transmitte does not our of write locks in such such our of the serial cability of					
chaid of yourander somilieabiles						
- Scholar on in our A transportion is smill						
12P1) is all locks operators (real -lock,						
were lost) prevale to 101						
in the lost precede the first uslock agreeding						
This 2PI protocall governous serialisticity						
me is one by the need of 2pl protocoll						
Lets to be up as crangle to proove ke.						
Travaltors 71 and 7-2	7, 7,					
as shown is try 1	real-lock (x): real_lock (x);					
Pollow two - poure	real-iken(x); real-item(x);					
locks protocol because	unlock(Y): unlock(x).					
the warmen lock (A)	write-lock(x); write-lock(x);					
unlact (V) operates in	Y = x + Y; Y = x + Y; ;					
TI and similarly	write jun(x); write-ins(Y)					
the write - lot (Y)	unlack (x) in bet(x);					
oparation follows to	2 (dvi) - Oth					
union (x) operation in Te.						
Co.						
Institut Victor: X = 20, Y=30						
result of sevial saturated To Golland						
by 72 We get						
	30					

	And I the very y sapral schedule						
	-12 boxessed by TI we got						
	X= 70, Y-50						
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-176	heer						
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	seri li abiliz						
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	Rd it we care in						
	But it we corpore the						
planing example in fig 2;							
	The state of the s	1 9/	61				
	1	7,1	F2'				
	to you transition	rew lock (Y);	V 450 03				
	7,1 and 721	real-ium(Y);					
	Cori In	unlack (Y);					
	Sent branch 12	1 2	red-lat (x)				
	order if		real risens.				
	we more sty		Unlat (x)				
	24.44	1 1 2 1 2 1	write -10ct (x):				
	7,1 - 7,1		and the fact				
0	7,1-1		valita (x);				
32.	12 7/1		Y=X+Y;				
1	110000		man ling (4)				
	4 = 20, Y=30		Contort (Y).				
	30	write - lost(x)	1				
	X = 70, Y=30	red_iks(x)	-				
	Curren 7,1-17,1	X = X4X,	The state of the s				
	and	write - Hanley					
	X : 20, 14:50	uniou(x)					
An Continue to							
72 - 7, 1							

Moreo 1 it can be proved that, it every
themsender for he a streeth follow the two-prine
looky protocol is the schools is greated to
the smill zulle.

2pl protocol is the a the schools for lost
update protocol and solution for income
Suppress protocol respecting.