

Ordering of Tuples of Rebabion

RELATION OPERATOR

Horizontal. SSISCTIETE

vertical

SELECT [6] = Ex & DDO = 4 (EMPLOXEE)

PROJECT [TT] -> TI LName FName, Salary (Employee)

5 Dno = 4 { AND Salary > 25000 (EMPLOXEE)

TT Name, Salary : Dept No [Employee]

Method 1: by nestring the operations.
TT Frame, Lname, isalary (5000 = 5 (EMPLOYEE))

and the person of the

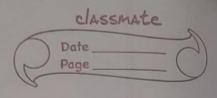
Method? : Renaming & creating intermediate result.

DEP5-EMPS (- FDNO=5 (EMPLOXEE)

RESULT - IT Fname, Lname, Salvey (DEP 5_EMPS)

· TEMP = 5 DNO = SEEMPLOYEE)

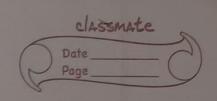
R[First-name, Last-name, Salary) = TT Frame, Lyame, Salary (TEMP).



Binary RO Couplicate buple terminated RUS Union Intersection RNS [That are their R but not in 9] Cartegas Product. BANK DATABASE SCHEMA TOTAL TOTAL Branch (BName , Baby, Assets) austomer (chame, astrect, carry) Account (ACC-No, BName, Balance) Inan (Loan-No, Brians, Amount) Depositor (CName, Acc:No) Borrower (cName, Loan-No) 1) Find the names of all the customers who have loan at the bank along with loan no and loan amount

TI (o (Borrow x Loan))
chame, Loan No. Amoun

Temp (Borrow Da Loan)



@	Find the names of all the branches with the
	customer who have an account is the back
	and who live is Bangalore
	and who live is Bangalore TT (6 (Customer M Depositor M) Brame aby= 'Barg' Acount)
	Property of the second
<u>(3)</u>	Find laboration of all 11
9	Find the names of all the austomers who have both.
>	loan and account at the Bank.
	Mame (Borrower A) Depositor)
	Tomana
	TI (Bordower) MD (Depositor)
Mig.	14819 161 49707
4	Find the names of the austonen who have loan
	at the Bancalore branch
->	chame BName=Bang'
	chame BName=Bang'
(5)	Find the names of all the sustomers who have
	the loan at the Hysore best do not have an
	account at any branch of branch bank.
->	T (6 (Borasury of 1000))
ami	chame (6 (Borsower + Loan)) -
111	channe = My sore TT (Depositor)
	(4) on orbin stof choose color
	and ready signif

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	Inner	left R = 105	RX	ES R	Full P
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	COMPANY SCH	EMA .	RX	ES R	
	COMPANY SCH Dept (Drum,	EMA Drame, Mgr	R No	rdale)	
1	COMPANY SCH Dept (Drum, Emp (SSD No	EMA Drame, Mgr ame, Bdalr,	SSn, Mo	grader,	
-	COMPANY SCHI Dept (Drum, Emp (SSD No Supper-S	EMA Drame, Mgr ame, Bdate, sn, Dro)	SSn, Mo	gender,	
-	COMPANY SCH Dept (Drum, Emp (SSD No	EMA Drame, Mgr ame, Bdate, sn, Dro)	SSn, Mo	gender,	
	COMPANY SCHI Dept (Drum, Emp (SSD No Supper-S Project (Preum	EMA Drame, Mgr ane, Bdab, sn. Dro) Prame,	R Poo, Ma	gender, s	Balary
	COMPANY SCH Dept (Drum, Emp (SSD No Supper-S Project (Pneum Retrieve the	EMA Drame, Mgr ame, Bdate, sn. Dro) Prame, name and	SSD, Mo Address Ploo, Dr	gender, s	Balary
	COMPANY SCHI Dept (Drum, Emp (SSD No Supper-S Project (Preum	EMA Drame, Mgr ame, Bdate, sn. Dro) Prame, name and	SSD, Mo Address Ploo, Dr	gender, s	Balary

Result 2 ← Temp N Fmp Drum = Dno

Result = TI name, Address (Result)

Prum controlling proum, Droger Last Name Address and DOB

> Temp < Splac = Stranford' (Project)

Result 1 = Temp A Dept

Result 2 - Emp Nesuls 1

Marssn = ssn

Result - T Prum, Drum, Name, Address, Bdate (Result2)

3 Find the name of all the employee who works
on all the project controlled by Drum=5
Temp
Temp
Temp
Temp
Temp

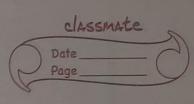
Temp 1 C Temp D Emp

Result (Trame (remp1)

-	DIVISION OPERATOR (=, /)
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1	or "exercy loke at all", "borall", or is all"
	," at every", "for every" or in every".
	C. Lando & Laterial fraktiva works xol (2)

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(2)	A	- mny	The same	BI	TT Pour	B2	1101/3	ВЗ	
(4)	Sno	Pno		Pno		Pno	7	Pna	
	51	PI		P2		P2		PI	
KO (D) A	SI	P2	add	Ho h	2 smn	P4	1 10	1P2	
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	<u>S3</u>	P2		53					
	54	P2	10	54	- mm = 1/		JI iza	911	
2	34	PY							



all disqualified tuple

A/B = T(A) - T(T(A) xB)-A)

(3) Envolled & Counce C

Sid Cid. Cid

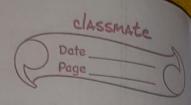
SI CI CI

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S3 C2.

The Marie (TT (Envolled) x cowise) - Envolled 52 11 x (A) B A 33

Tised (Envolled) - Tisid (To (Envolled) x (ourse) - Envolled



Find all customes who have an account aball branches located brooklyn'

O Student Chame, USD, ad, Percentage, Pagne Course (Cid, coame) Erroll (Cid, usn, Grade) Faculty (FID, Frame, Salary)

1 Retrieve the name and % of all students for the course 180543

Temp (Course)

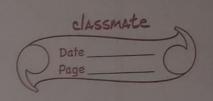
Temps (Temp De Foroll ad

Temp? - Temp, D Student. USn.

Result (Temp2)
hame, Percentage.

(2) List the Dept's having an average salary of the baculties above Rs 30000

Temp 1 (Sum (salary) (Faculty) Temp 1 - 5 ang (salary)



T		6 2	(cal and	>30,000	(Temp1)
remp 2	-	uvg	CSC TWO	330,000	

Result & T Drame (Temp 2 D) Dept)

3) list name of the course having students grade A' maximum.

Temp = Grade = A' (Envoll)

templ - Temp De Course

Result (Temp2) 000 DI and with sellan unplas the gras will de

Retrieve the hame of employees who work for

'kes owich' pept.

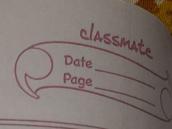
Temp (Dept)

Drame = 'Research'

Temple temp DI Emp

Result & TFrame (Temps)

2 list the name of managers who have ableast Temp = Opendent >= 1



Temp 1 = Dept Al Temp.
Marson = Eson

Result & TEname (Temps D) Emp)

Mgrssn=ssn

- 3 list the dependents of particular emp name with
 Tohn smith

 17 (Dependent D) Employees

 dependent name

 dependent name
- (5) list the emp with salary greater than 10000
 . The prame (of salary) 10000 (Emp)

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