

```
9.2 - division opretion?
       P & R
          9, 2
       р,
         92
       P,
       Pq 92 m
                          we have
       P3 9, 72
                           Tasa
       P2 9, 72
       P2 92
       P, 9, ~
    T_{i} \leftarrow \pi (R-s)(R)
     T_1 \leftarrow \gamma(R-S)((SXT_1)-R)
     T <- T, -T2
     when T=R = S
     SžΤ,
```

(SXT, I-R = SXT, R p es 9, 9, 9 4 p<sub>2</sub> 9<sub>2</sub> P3 9, r2 P2 92 Y2 P2 91 P, 9,  $T_2 = 7 (R-S) ((S\times T_1)-R) = \begin{cases} R \\ Y_3 \end{cases}$ T, -T2 = (7XR)+ S) as T Firaly - R?s

9.3 - Iranividud (name age, gender)

Freequents (name, burgerstore)

(onsumes (name burger)

Priviles (lungerstore, lunger, price)

(9)
The Gurgershore (6 agr < 20 (Person) Defrequents)

(6) Mburgershore ((mame='Rahu '(states)) Di Ginierso (Serves))

(c) Eals > Thame, lunger (Frequents - Thame, lunguestore (Eals IX) serves)

10 wing - 821 Application

Part a SESEIFE T frequents. Gurgers tore
from frequents

JOTH Individual

On Frequents. name = Individual name

where Individual age 220

(6) SELECT Provides. Guyers fore
From provides

JOZN (onsymcos

ON Provides - Juger = (oneymos. Ruga.

Where (onsymers. nane = 'Rahu1'

AND Provides. Price < Do

(1) SE(EET Inide vande rame ( ) nrumer layer From Tradia Q.4 (91 (ardesian Product

no at maximum tepiples in

Courtisian product it nxm

min. not toples:-mxn

Max. not heples in roselling releation)

if no matiching key conduins join

will produce product)

(c) left auter join.

Max i's in\*n (8 ame as natural soin)

min is n (no of tuple left s'oin)

(d 1 Righ œutres jon.

max = n \* m

( 911 rows in 1eft toble in atching with all rows in right toble)

min = m

## @ 1 full outer Join

table my taking with all rows in night table)

min = x + m

(if no tople matching 1/2
the two tuble dut still
we have to include all
the tuple)

(f | Union: Max = on outin

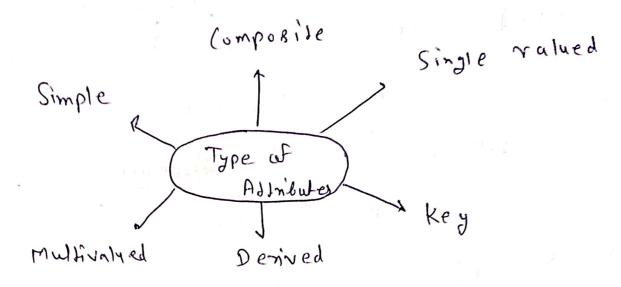
(Union we add by the tuples from both relations)

Min = the minimum i's m

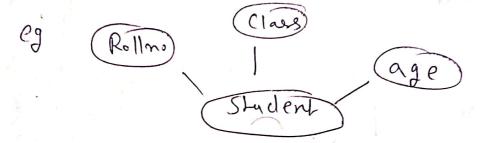
(the gretes 1 of two size

mand n)

8.5 - Type cof Admibule!



(11 Simple: Simple Attributs are those which Cannot be divided fruther.



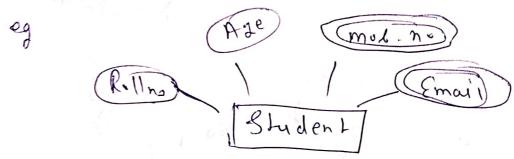
af many other simple attributs.

(3) Single Valued and those afthilutes which (an take only one value for a give eg

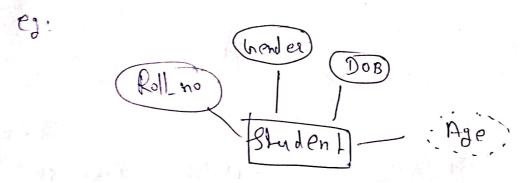
(Roll)

(Bouden) - (hender)

than one value for a given entity set.



Derived: Derived Athibuts are which can se derived from other altributs.



(6) key! which (an identify an entity uniquely in an entity set.

Rolling hender Age

not Contain sufficient

altimitates to uniquely identify its entities

and primary key does not exist For

this entity set

it Contains a partial key Called as discriminar

Primary key of weak entity set

118 own discriminator + Primary key af 8 thong en hiry 8el