Notes:	U: union	Thum. An (R) Select Au, in from R;
	N: intersection	Janan (R) Select A,in from R;  Jan.Jang (Sells) Select * from R where borz "Jue";
	-: ditterence.	Rxs Crew product
	<u> </u>	Bar Info := Sells Mellsbor= Bars, name Bars
		Notural Join: Sells W Bars  R:= Para (R) & R1(A,An: R)

Problem No.1:

Sol: ( To prame (Prof Modert numerods >12 dopt)

Tsname (Student) -

Sname (Student) TS, name (Vs. 1945, gg/ student (SId. 1992) (SI) X Pstudent (SId. 1992) S.))

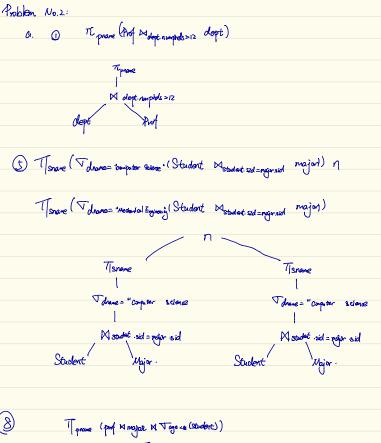
3 (Student)

Journal (ervoll 14 Student) this get all registration for woman, but Since we done have counted function in relational algebra, country go further.

- 4) Similar reason to D, since we about have counted function it convex be done.
- ⑤ Torare (√drame= "computer schee" (Student → Student sid=nggrasid major)) η

Trave ( Tolome= "Medenical Enginesis ( Student Metadent sid=najorsid major)

- 6 In this case we need average function on country function both of with country be expressed in relational algebra.
- Todora numphods (dept) Advance numphods (dept M major M Torone = "prejaming" (Course))
- 8 Typrone (prof Minoglab M Vage 48 (Standart))



(prof Mongar M Tage co (student))

A prome

| Magain Trage co (student)

Prof Mojor Trage co (student)

2.b: Calculate the intersection of supplier's name, two groups are

- @ out of items are less than look; color is real; join Catalogs and Supplies first then Parts
- @ oot of item one less than look's color is green's join Ports and Catalog first, then Suppliers

## HW<sub>2</sub>

## Haoyang Han

## Hhr8512

Problem No 3: Creating order should be:

Create less relevant table at the beginning and then more related table.

Create table Salary (Salary\_level char (50), Mon\_Salary integer, Primary key (Salary level));

Create table Job (Job\_code integer, Job\_title char (50), Primary key (Job\_code));

Create table Employee
(Emp\_no integer,
Emp\_name char (50),
Room\_no integer,
Primary key (Emp\_no),
Manager\_id char (50),
Foreign key references Employee(Manager\_id),
Foreign key references Department(Dept\_no));

Create table Department
(Dept\_no integer,
Dept\_name char (50),
Dept\_head char (50),
Primary key (Dept\_no),
Foreign key references Employee(Emp\_no));

Create table Project
(Proj\_code integer,
Proj\_name char (50),
Start\_date integer,
End\_date integer,
Primary key (Proj\_code),
Foreign key references Employee(Emp\_no));