



### Relational Schema

**Student\_Profile**(Student\_Profile:CHAR[PK], HSC\_Percent:FLOAT, HSC\_Subject:VARCHAR, SSC\_Percent:FLOAT, Sector\_Pref:VARCHAR, Work\_Exp:VARCHAR, Undergrad\_Degree:VARCHAR, Gender:VARCHAR, Degree\_Percent:FLOAT)

**User\_Info**(UserId:INT[PK], Password:VARCHAR, Email:VARCHAR, Name:CHAR)

**Grad\_Student**(StudentId:INT[FK], Grad\_Percent:FLOAT, Grad\_Degree:VARCHAR)

**Placement**(StudentId:INT[FK], Emp\_Percent:FLOAT, Status:VARCHAR)

**PUD**(StudentId[FK], Status:VARCHAR, Salary:INT, Emp\_Percent:FLOAT)

**Company**(CompanyId:INT[PK], Sector:VARCHAR, Salary:INT)

**Final\_Output**(StudentId:VARCHAR[FK], CompanyId:INT[FK], Sector:VARCHAR[FK], Salary:INT[FK])

### Functional Dependencies

3NF → our group is more comfortable w/ it & could work w/ our data better

— dependent —

	L	M	R	N
SP → UI				
P → SP	C	SP	UI	
PUD → SP	PUD	P	GD	
C → P				
SP → GD				
C → PUD				

$\{C\}^+ = \{C, P, SP, UI, GD\}$        $\{C, SP\}^+ = \{C, SP, P, UI\}$   
 $\{PUD\}^+ = \{PUD, SP, UI\}$        $\{C, SP, P\}^+ = \{C, SP, P, UI\}$

$\{C, PUD\}^+ = \{C, P, SP, PUD, GD, UI\}$        $\{C, SP, PUD\}^+ = \{C, P, SP, GD, PUD, UI\}$