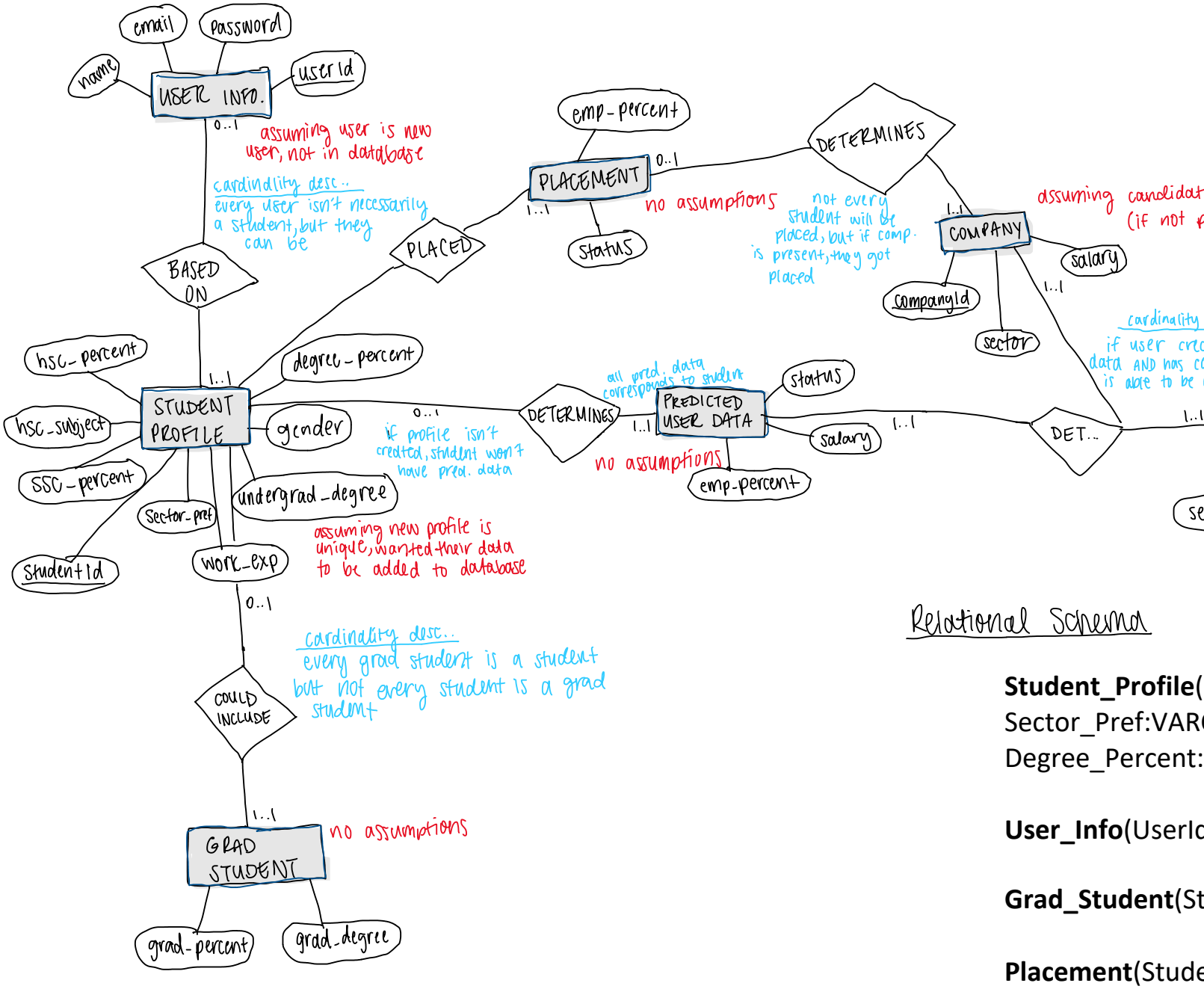
UML/ER diagram

Tuesday, September 26, 2023 5:04 PM



Relational Schema

Student_Profile(
Sector_Pref:VAR
Degree_Percent:

User_Info(UserId

Grad_Student(St

Placement(Stude

PUD(StudentId[F

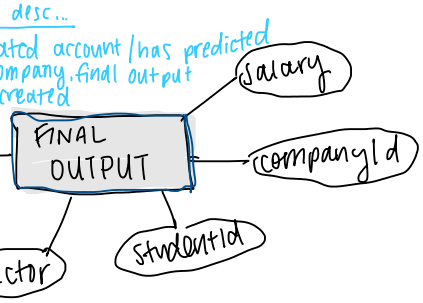
Company(Compa

Final_Output(St

Functional Dependencies

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

e was placed
placed, not in table)



Student_Profile:CHAR[PK], HSC_Percent:FLOAT, HSC_Subject:VARCHAR, SSC_Percent:FLOAT,
CHAR, Work_Exp:VARCHAR, Undergrad_Degree:VARCHAR, Gender:VARCHAR,
FLOAT)

d:INT[PK], Password:VARCHAR, Email:VARCHAR, Name:CHAR)

tudentId:INT[FK], Grad_Percent:FLOAT, Grad_Degree:VARCHAR)

entId:INT[FK], Emp_Percent:FLOAT, Status:VARCHAR]

K], Status:VARCHAR, Salary:INT, Emp_Percent:FLOAT)

anyId:INT[PK], Sector:VARCHAR, Salary:INT)

udentId:VARCHAR[FK], CompanyId:INT[FK], Sector:VARCHAR[FK], Salary:INT[FK]

— dependent —

SP → UI

P → SP

PUD → SP

C → P

SP → GD

C → PUD

L	M	R	N
C	SP	UI	
PUD	P	GD	

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

$\{PUD\}^+ = \{PUD, SP, UI\}$

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

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

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

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

udentId:VARCHAR[PK], CompanyId:INT[FK], Sector:VARCHAR[FK], Salary:INT[FK]