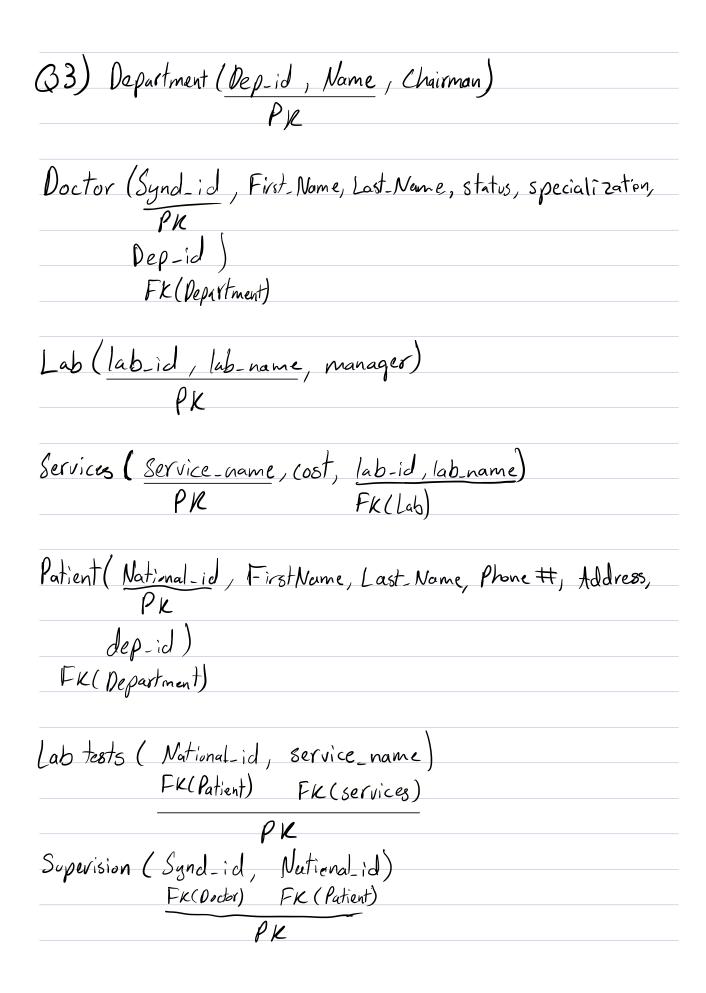
Mohammed EMh	oly 90-202159
Q1) Relational r	nodel
PK	
Applicant (user_id, birth, Phone_num	gender, region, city, country, email, Date of First Name, Middle-Name, Last-Name)
PK	
Collegel Name,	city, country, ranking)
writter	as college-id in ERD by mistake.
	ne, faculty-id, First-Name, Last-Name,
FK College	
	PK
tenure, Num-of-Po	ub)
Publications (College	name, faculty-id, Publication-title)
FKICO	llege), FK (faculty)
	PK
Application (Application	n_Num, Semester, user_id, Year, GPA, FK(Applicant)
	Da Da PR
App_Date, ref1, r	2ť2, reť3)

## Q2) Branch (Branch-id, Branch-name, location) PK Book (ISBN, title, Copy-Num, Publisher, Category) FK(Publisher) Publisher (Name, Address, email) Publisher Nums (Number, Name) Boyer (email, Name, Grender) Book-Copies (Copy-Number, branchid, nom-of-copies) FR(book) FK(branch) PK Transactions (Ref-id, user-id, back ISBN, email, branch-id, PK FK(Buyer) FK(Book) FK(Byyer) FK(brand) Fransaction date Acthors (Acthor-name, Book-ISBN) FK(Book)



Bed (Assigned_num, dep-id, category-name, National-id)  FK (Department) FK (Bed-category) FK (Patient)
FK (Department) FK (Bed-category) FK (Patient)
$\mathcal{P} \mathcal{N}$
Bed-Category ( Category-name, cost)
PK
Q4) Flight (Flight_Num, Operation-days) PK
PK
Airport (Code, name, city) PR
PK
Airplane types (type-name, manufacturer)
PK
Seat Nums (Airplane-type-name, Fare-type, seat-num)
FR (Airplane-types) FR (Faves)
PK
Airplane (Airplane-Num, Airplane-type-name, Status)
FR(Airplane-types)
PK

Allowed-types (Airport-code, Airport-Nam FK(Airport)	ne, Air plane-type)  FK(Airplane-types)
PK	
Flight leg (Flight Num, number, des FK(Flight)	p-airport_id,
$\mathcal{O}_{\mathcal{U}}$	
arrival-airport-id, scheduled-dep	o-time, schoolvled
FK (Airport) arrival_time)	
leg-instance (Flight-leg, day, actual- FX(Flightleg)	dep, actual-arrival,
Airplane) FK(Airplane)	
Fares (Flight_Num, number, type FR(Flight_leg) PK	, price)