Week 4

Lecture Activity

1. Explain why there is 1:m relationship between 2 entities, PK of the 1-side will be the FK on the m-side. Provide explanation with an example

2. Redesign the following entity

> Where every employee needs to have atleast one skill & evvery skill can be chosen by an employee. In addition, the information about skills like skill ID and name need to be stored in the db.

Explain why this needs to be redesigned & convert the new ERD to relations

3. Convert the associative entity to a relation

- Customer: CustomerID, CustomerName
- Shipment: ShipmentID, ShipmentDate, ShipmentAmount, CustomerID, VendorID
- Vendor: VendorID, VendorAddress

```
CUSTOMER(<u> CustomerID </u>, CustomerName)
VENDOR(<u> VendorID </u>, VendorAddress)

SHIPMENT(<u> ShipmentID </u>, ShipmentDate, ShipmentAmount, CustomerID*,
VendorID*)
FK (CustomerID) references CUSTOMER
FK (VendorID) references VENDOR
```

Tutorial Activity

Converting ERD into relation

Tutorial 2

> IComp(CompID, CompName, CompAddress, CompPhone, CompRep)
>
> Patient(PatId, PatFName, PatLName, PatGender, PatAge, PatDoB, PatAddress, PatPhone, PatRDate, CompId*) FK(CompId) references IComp
>
> PatMChart(PatCID, PatID*, PatAdmDate, PatDisDate, PatSymp, PatDiag, DocId*, NurseID*) FK (PatID) references Patient FK (DocID) references Staff FK (NurseID) references Staff
>
> Staff (StaffID , StaffName)
>
> Prescrition(DrugNo , PatCID, DrugAmt,EDate, SDate, DrugNo*, PatCID*) FK (DrugNo) references Drug FK (PatCID) references PatMChart

> Drug(DrugNo, DrugDose, DrugDosg, DrugMethod, DrugName, DrugPrice)

Tutorial 3

> Placeholder