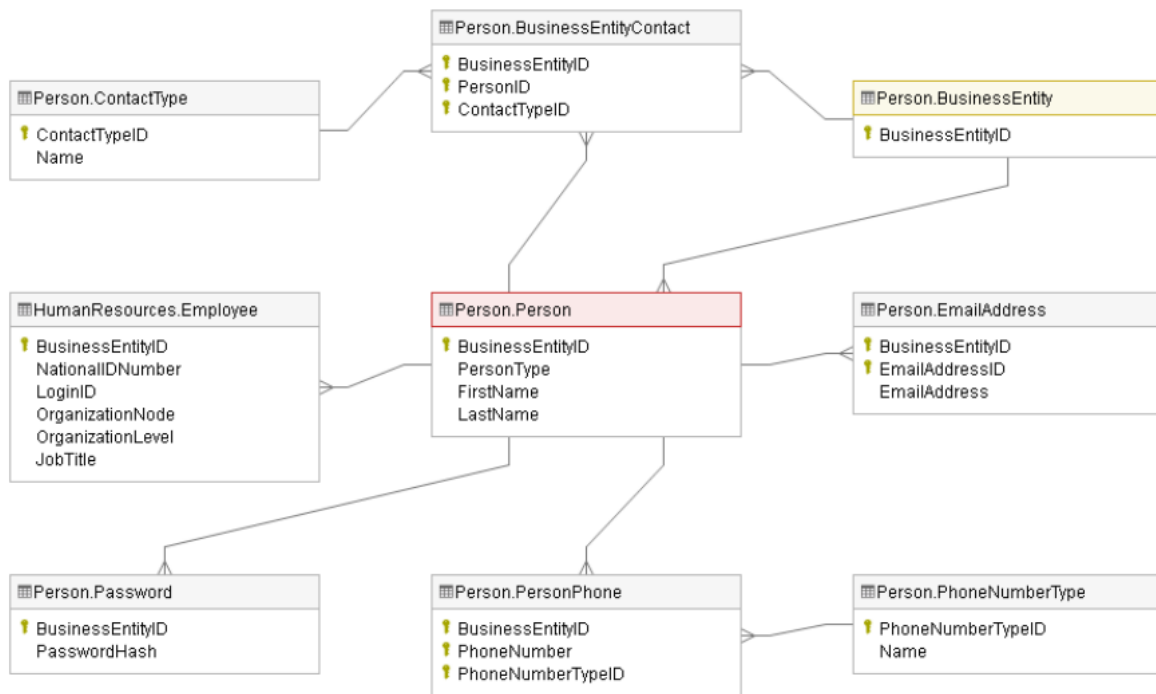


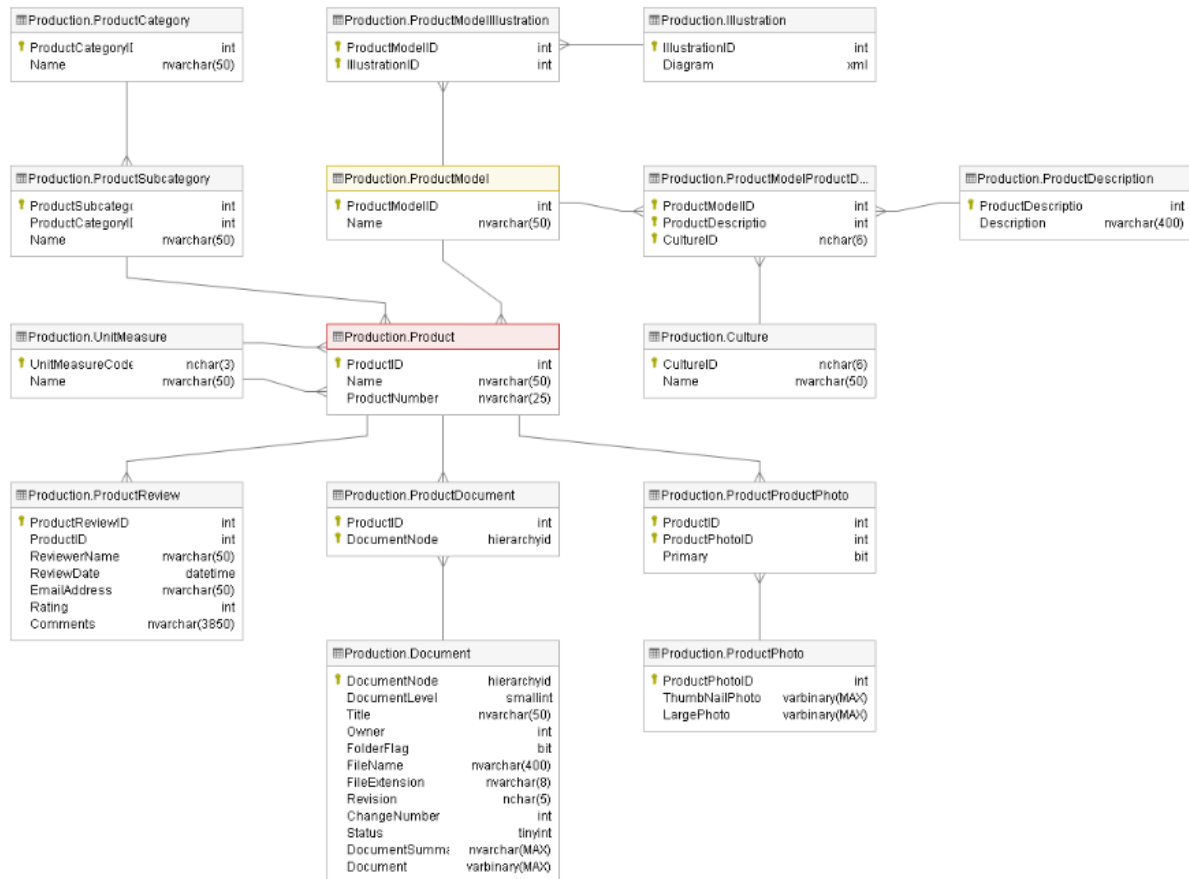
## SQL GROUP ASSIGNMENT

30. Write a short essay talking about a scenario: Good news everyone! We (Wide World Importers) just brought out a small company called “Adventure works”! Now that bike shop is our sub-company. The first thing of all works pending would be to merge the user logon information, person information (including emails, phone numbers) and products (of course, add category, colors) to WWI database. Include screenshot, mapping and query.

### 3. People



## 5. Products



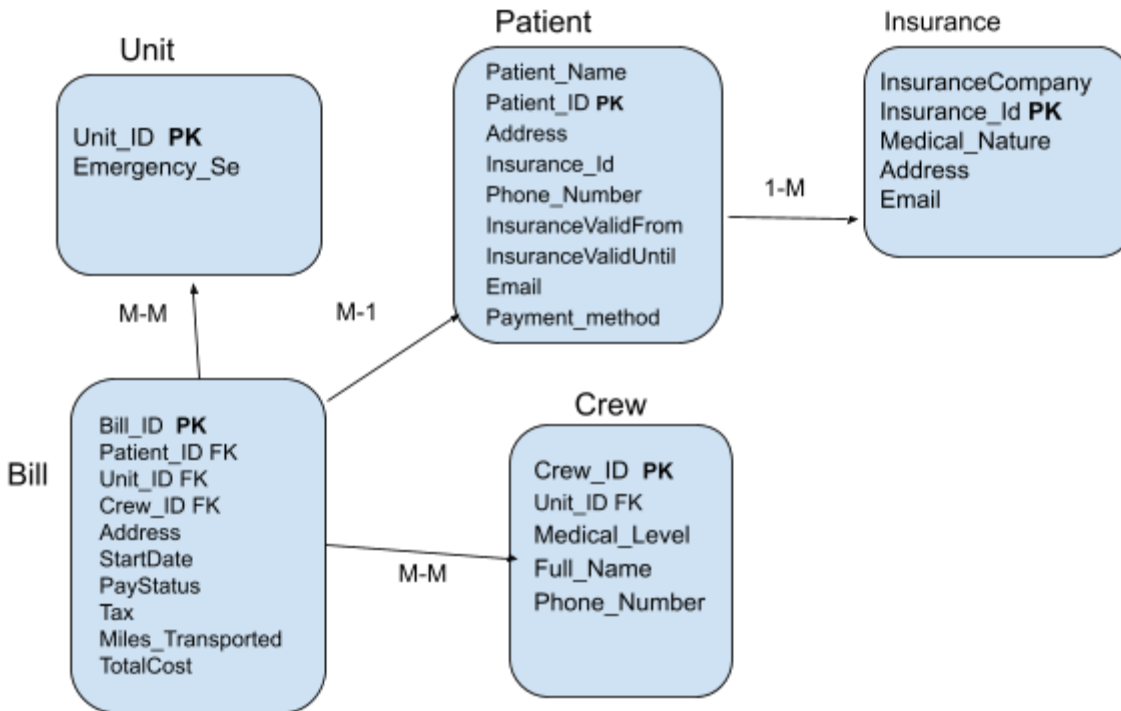
31. Database Design: OLTP db design request for EMS business: when people call 911 for medical emergency, 911 will dispatch UNITS to the given address. A UNIT means a crew on an apparatus (Fire Engine, Ambulance, Medic Ambulance, Helicopter, EMS supervisor). A crew member would have a medical level (EMR, EMT, A-EMT, Medic). All the treatments provided on scene are free. If the patient needs to be transported, that's where the bill comes in. A bill consists of Units dispatched (Fire Engine and EMS Supervisor are free), crew members provided care (EMRs and EMTs are free), Transported miles from the scene to the hospital (Helicopters have a much higher rate, as you can image) and tax (Tax rate is 6%). Bill should be sent to the patient insurance company first. If there is a deductible, we send the unpaid bill to the patient only. Don't forget about patient information, medical nature and bill paying status.

**Table UNIT**(*Unit\_ID*, Emergency\_Service)

**Table Crew**(*Crew\_ID*, Medical\_Level, Full\_Name, Phone\_Number)

**Table Patient**(*Patient\_ID*, PatientName, Address, Insurance\_ID, Phone\_Number, InsuranceValidFrom, InsuranceValidUntil, Email, Payment\_method)

**Table Bill**(*Bill\_ID*, *Patient\_ID*, *Unit\_ID*, *Crew\_ID*, Address, StartDate, PayStatus, Tax, Transported Miles, TotalCost)



Group Member:  
 Trang Bui  
 Darshan Pradhan  
 Lawrence Han

32 Remember the discussion about those two databases from the class, also remember, those data models are not perfect. You can always add new columns (but not alter or drop columns) to any tables. Suggesting adding Ingested DateTime and Surrogate Key columns. Study the Wide World Importers DW. Think the integration schema is the ODS. Come up with a TSQL Stored Procedure driven solution to move the data from WWI database to ODS, and then from the ODS to the fact tables and dimension tables. By the way, WWI DW is a galaxy schema db. Requirements:

- Luckily, we only start with 1 fact: Purchase. Other facts can be ignored for now.
- Add a new dimension: Country of Manufacture. It should be given on top of Stock Items.
- Write script(s) and stored procedure(s) for the entire ETL from WWI db to DW.