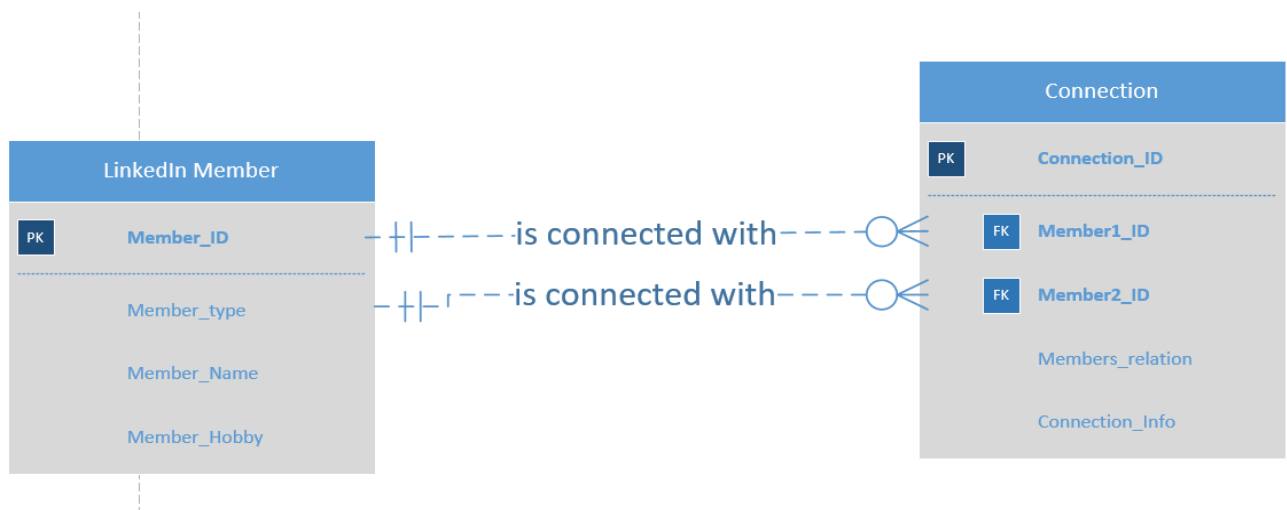
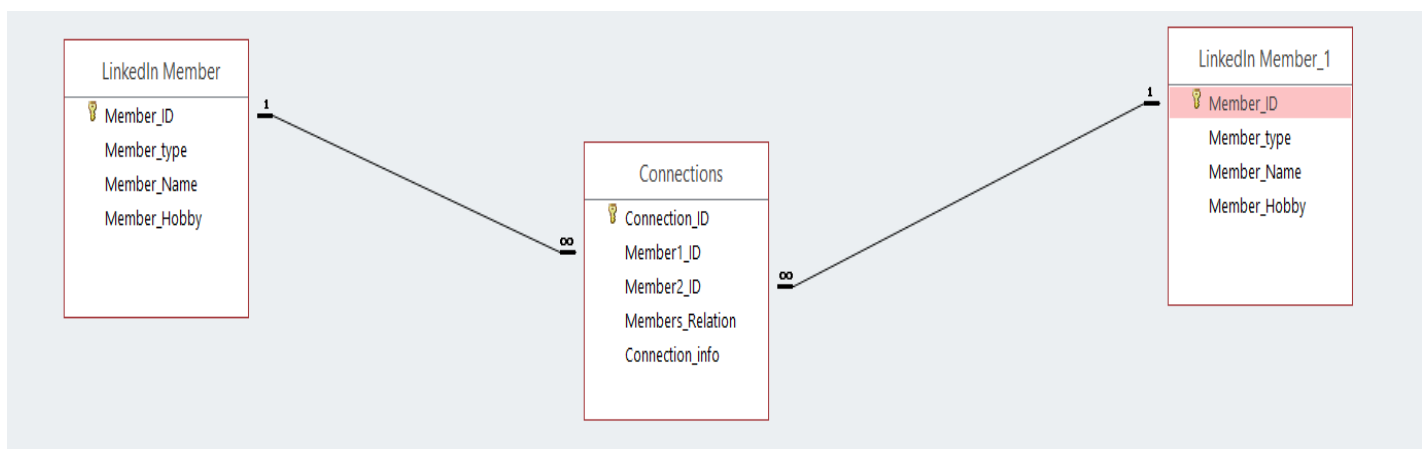


**IST 659: Lab-3**

**Question1:** For better communication between faculty and students in the Whitman MBA School, management decides to develop an academic social network platform like LinkedIn. On this platform, each member (students, faculty and staff) shall have an account with their personal information, such as their name, and hobbies etc. Besides, the members can connect with zero or multiple other members in their network.

➤ Necessary Assumptions (Business Rules):

- Each member must have a LinkedIn account
- Each employee can connect to zero or multiple other members in their network

**MS Visio****MS ACCESS**

Datasheet view (LinkedIn Member)

| Member_ID ▾ | Member_type ▾ | Member_Name ▾ | Member_Hobby ▾ |
|-------------|---------------|---------------|----------------|
| 1           | Student       | Farees        | Games          |
| 2           | Professor     | Patel         | Reading        |

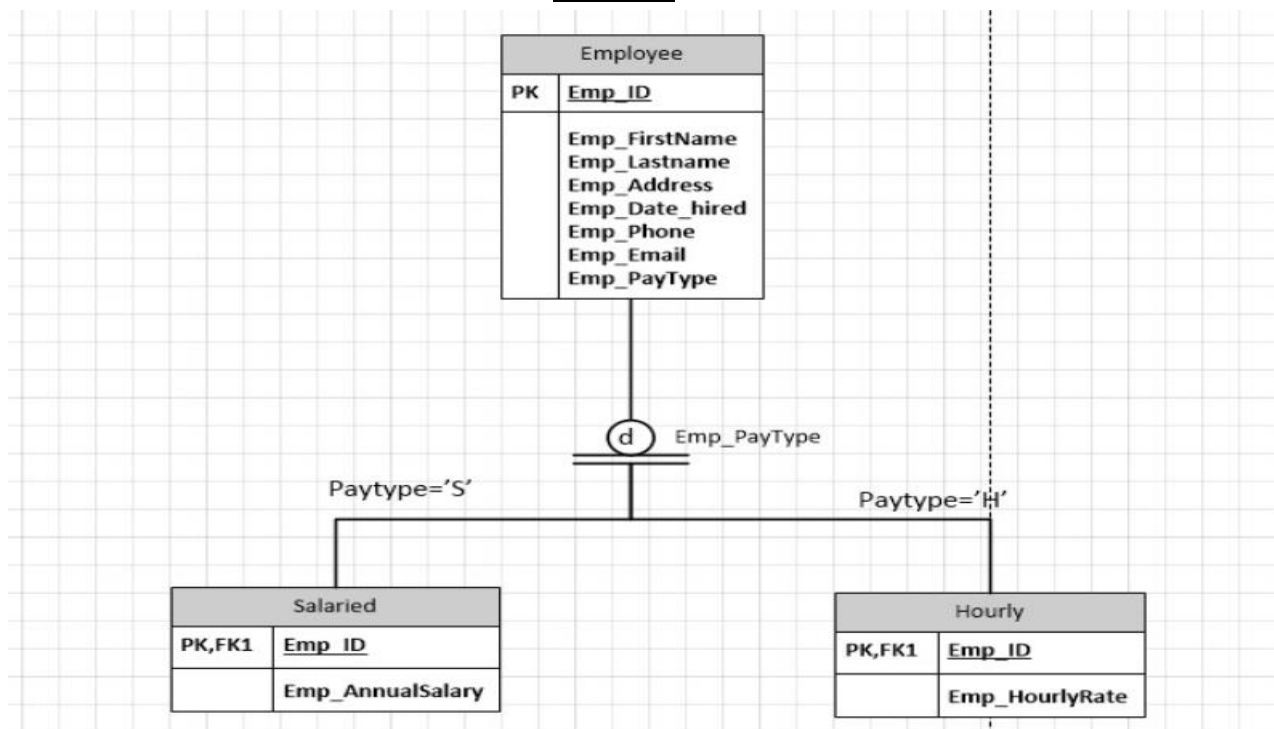
Datasheet view (Connections)

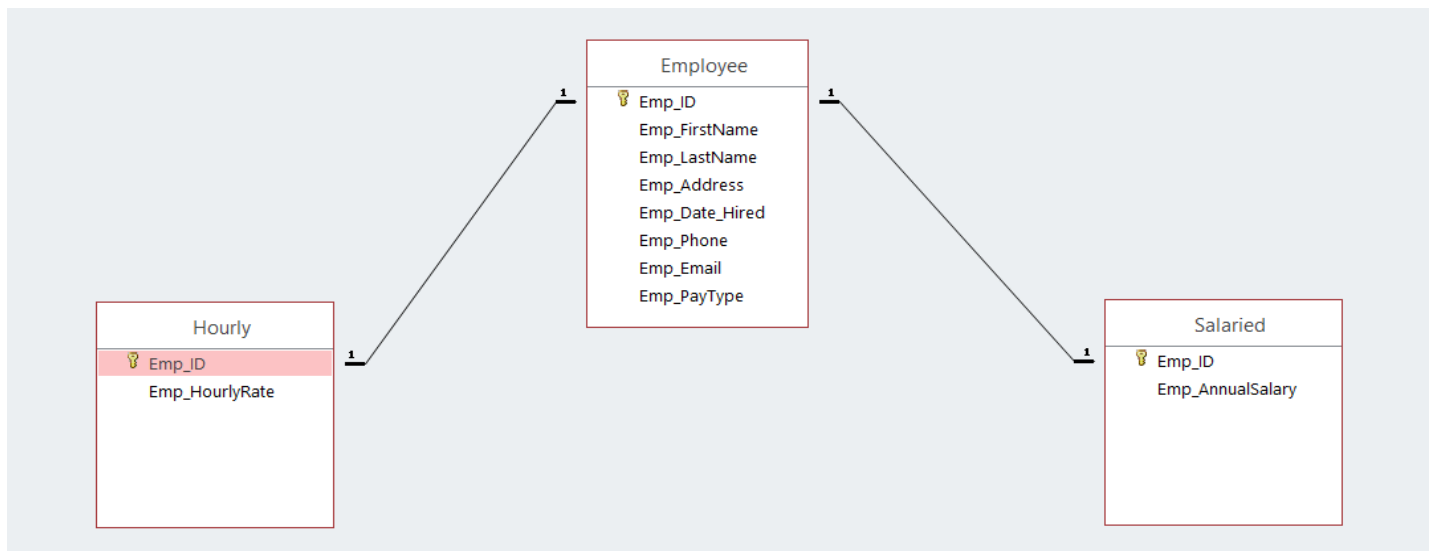
| Connection_ID ▾ | Member1_ID ▾ | Member2_ID ▾ | Members_Relation ▾ | Connection_info ▾ |
|-----------------|--------------|--------------|--------------------|-------------------|
| 1               | 1            | 2            | Friend             |                   |

**Question2:** Finish reading the slides for supertype and subtype. Then create an ERD in Visio 2010 for the Employee (Salaried and hourly) disjoint example in slide 27. Also, create an Access database with three tables for the ERD. Insert 5 employee records, where 3 of them are salaried and 2 of them are Hourly.

## ➤ Necessary Assumptions (Business Rules):

- Every employee receives salary by either hourly rate or a fixed annual salary amount

MS Visio

MS ACCESSDatasheet view (Employee)

| Emp_ID | Emp_FirstName | Emp_LastName | Emp_Address              | Emp_Date_Hired | Emp_Phone | Emp_Email          | Emp_PayType |
|--------|---------------|--------------|--------------------------|----------------|-----------|--------------------|-------------|
| 1      | Farees        | Patel        | 1011 East Adams Strret   | 10/1/2016      | 123456789 | farees@gmail.com   | S           |
| 2      | John          | Carter       | 1211 Hall Street         | 9/8/2016       | 234567891 | john@carter.com    | H           |
| 3      | Harry         | Kane         | 3122 East Fayette Street | 9/21/2016      | 345678912 | harry@gmail.com    | S           |
| 4      | Williams      | Bell         | 4532 West Fayette Stree  | 8/23/2016      | 456789123 | williams@gmail.com | H           |
| 5      | Johnson       | Gomes        | 5455 Westscott Street    | 7/13/2016      | 567891234 | johnson@gmail.com  | S           |

Datasheet view(Hourly)

| Emp_ID | Emp_HourlyRate |
|--------|----------------|
| 2      | 15             |
| 4      | 20             |

Datasheet view (Salaried)

| Emp_ID | Emp_AnnualSalary |
|--------|------------------|
| 1      | 100000           |
| 3      | 90000            |
| 5      | 70000            |