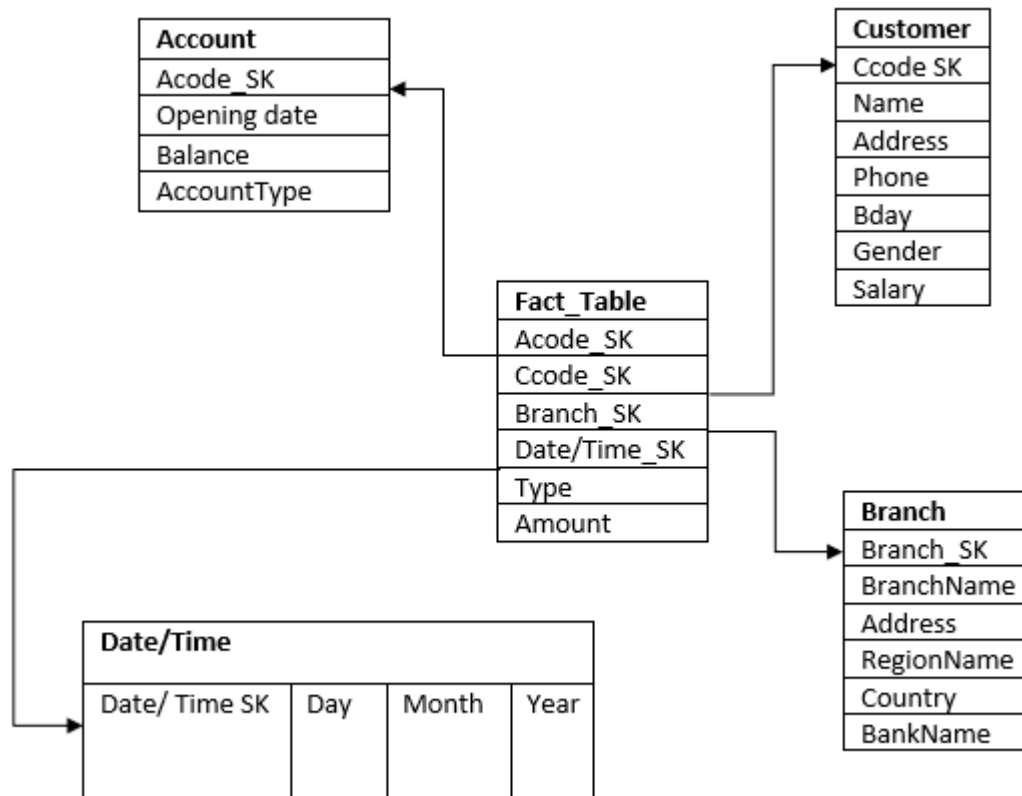# Lab 5 Dimensional Models

1. ACCOUNT (aCode, OpeningDate, Balance,BrenchID (FK), AccountType, cCode (FK))
   CUSTOMER (cCode, Name, Address, Phone, BDay, Gender, Salary) TRANSACTION (Tcode, Date, Type, amount, aCode (FK))
   BRANCH (BrenchID, Name, Address, RegionID (FK), BankID (FK))
   REGION (RegionID, RegionName, Country)
   BANK (BankID, Name,)

Account
Acode_SK
Opening date
Balance
AccountType

Customer
Ccode SK
Name
Address
Phone
Bday
Gender
Salary

Fact_Table
Acode_SK
Ccode_SK
Branch_SK
Date/Time_SK
Type
Amount

Branch
Branch_SK
BranchName
Address
RegionName
Country
BankName

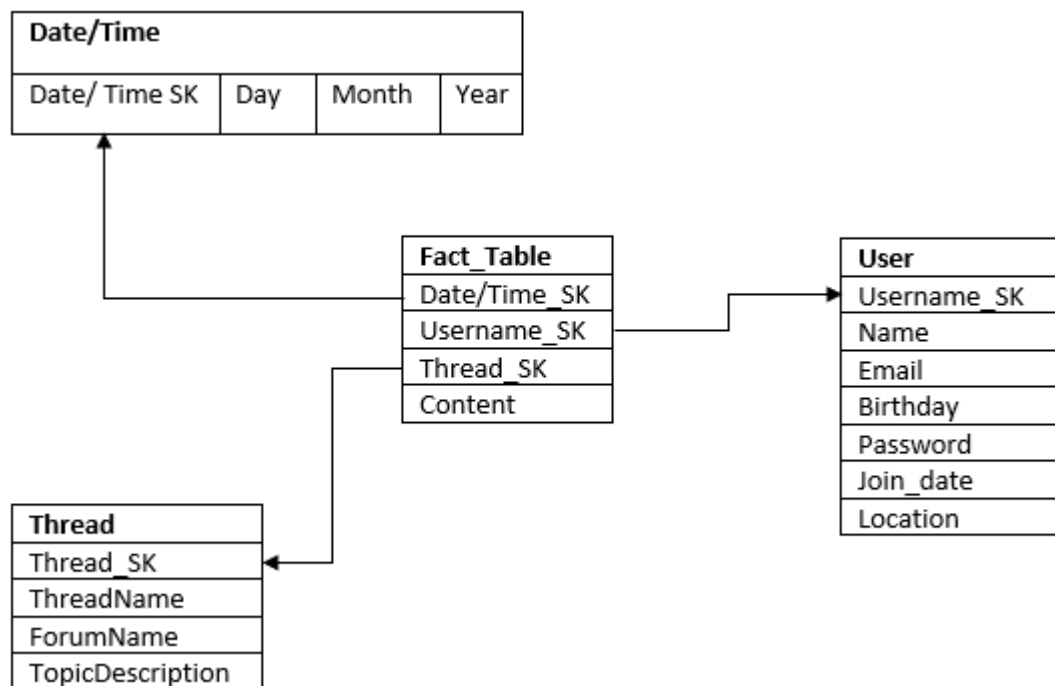| Date/Time			
Date/ Time SK	Day	Month	Year

Select sum (Fact_Table. Amount), Branch.BranchName From Fact_Table
Join Account on Fact_Table.Acode SK = Acode_SK
Join Branch on Fact_Table.Branch_SK = Branch_SK
Join Date/Time on Fact_Table.Date/Time_SK = Date/Time_SK
Where Account. AccountType = 'Student' and
Date/Time.Day between 1 and 31 and
Date/Time.Month 'Jan' and 'Dec' and
Date/Time.Year = 2009
Group by Branch_SK

2. User (Username, Password, Name, Email)
   Forum (Fid, ForumName, Topic)
   Thread (Tid, Tname, CreatedDate, Fid(FK))
   Topic (TopicID, TopicDescription)
   Posts (Pid, Tid, Username, Content, Timestamp)

   One Topic many Forums
   One Forum Many Threads
   One Threads Many Posts
   One User Many Posts

Date/Time			
Date/ Time SK	Day	Month	Year

Fact_Table
Date/Time_SK
Username_SK
Thread_SK
Content

User
Username_SK
Name
Email
Birthday
Password
Join_date
Location

Thread
Thread_SK
ThreadName
ForumName
TopicDescription

Query 1: Total number of posts on the on a thread by a user.
Select count (*) From Fact_Table
Join Thread on Fact_Table.Thread_SK = Thread.Thread_SK
Join User on Fact_Table.Username_SK = User.Username_SK
Where User.Username_SK = 'Jordan' and Thread.Thread_SK = 123

Query 2: Shows the content a user has posted over a period of time
Select content From Fact_Table
Join Date/Time on Fact_Table.Date/Time_SK = Date/Time.Date/Time_SK
Join User on Fact_Table.Username_SK = User.Username_SK
Join Thread on Fact_Table.Thread_SK = Thread.Thread_SK
Where User.Username = 'Jordan' and Thred.Thread_SK = 123
And Date/Time.Day Between 1 and 31 and Date/Time.Month = 'April'
And Date/Time.Year = 2016

I done my dimensional model on Boards.ie. Boards.ie is a large Irish Forum on the internet. This allows Users can post questions or opinions on certain topics of interest. Other people can then see what this person has posted and then reply to it. There is a huge verity of topics to post and comment on.