KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY

KUET

SESSIONAL REPORT

Course No. _____

Department Of CSE

Experiment No.

Name of the Experiment Project Proposal and Description on of a Stock - Exchange Database.

Remarks

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Date of Performance .....

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Introduction:

The term stock refer to a guarantee the share of ownership of a company. In giant companies it is not possible for one person to generate all the capitals and take all the risks. So if the ownership is divided and sold as a stock.

A stock exchange is a market place where these stocks are sold and bought. By buying a stock, one become a part of owner of a company.

The stock exchange must maintain a database to work properly. It should contain stock price, user info, company information and users be owned Equity.

Objectives:

1. To create a database for stock-exchange.
2. To automate the ~~calculations~~ data storage through it.

Project Description:

The ER diagram shows the brief idea of the project. Here are 4 entities. User, Stock Exchange, Company Stocks and owned Stocks.

User entity has attribute Userid, Name, A/C number and A/C balance.

Stock Exchange has attribues exchange_id, Opening time and Closing time.

Company Stocks entity has attribute company_id, Company name, Stock Price, Stock volume.

Lastly owned Stock has company name, Quantity and Buying Price attribute. This is a weak entity set.

Here User and Stock Exange is in many to many relation. User can buy stock from more than one

stock Exchange market place and each market place may have more than one users. Again stock exchange and company are in many to many relation. Each company may sell stocks in different stock exchange and each stock exchange may have more than one company.

users and Company is in many to many relation. It is because one user gets yearly revenue from more than one company and each company may have more than one stock holder.

The owned stock entities has relation with user, stock exchange and company. So its primary key would be user_id, exchange_id and company_id. User see his/her owned stock from this. stock exchange knows the sold ammount and company can know the liability ammount from this table.

Conclusion:

From this project we would be able to design a database that is suitable for stock Exchanges. It will automate the data storing system and reduce the effort ~~th~~ for storing the data. It will also lessen the data redundancy a lot. So These were the primary goal of this project which would be achived after completing the project.

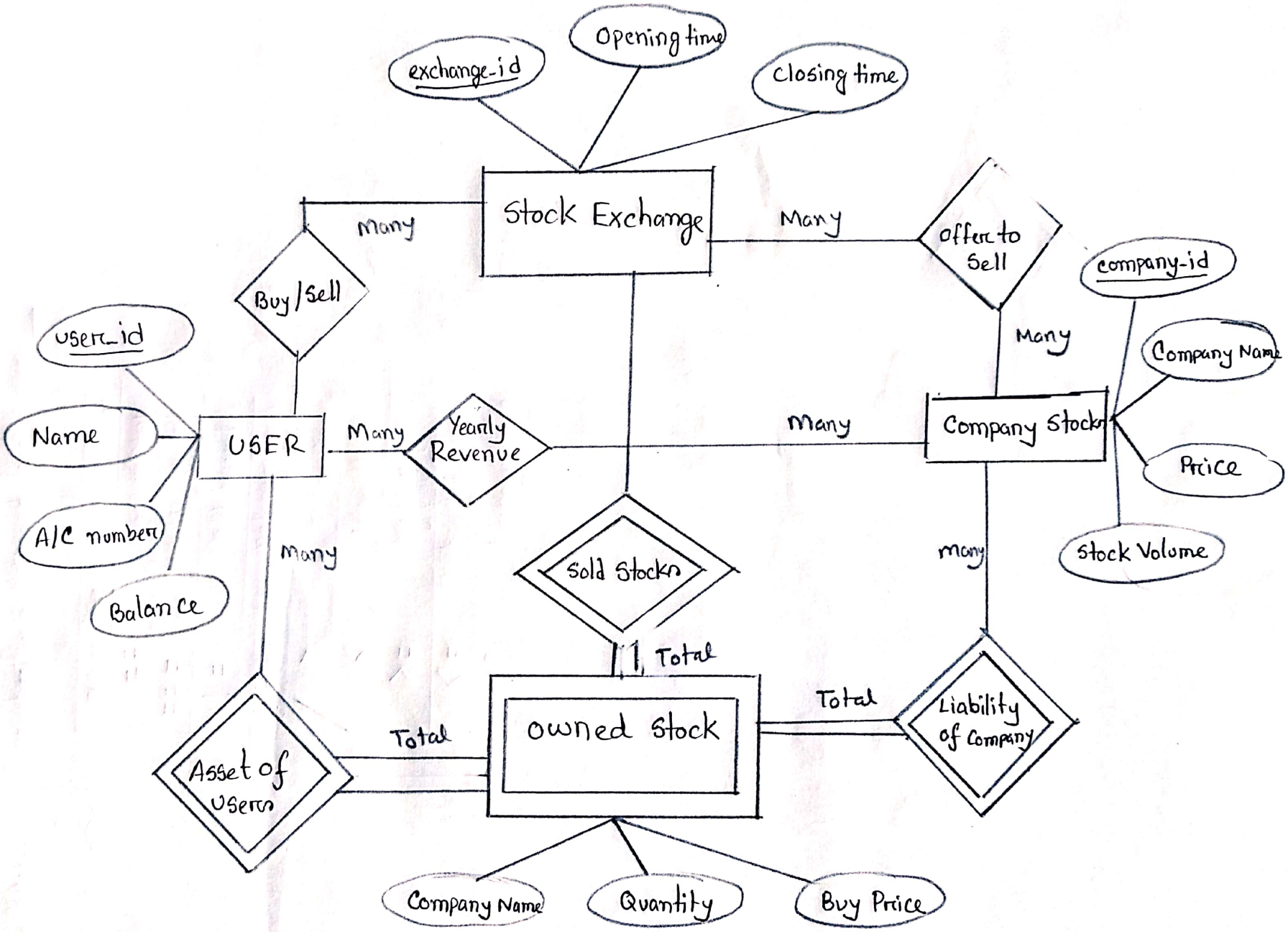

Fig: ER Diagram of stock-Exchange database.