TradeVerse

Table 1: Users_Table

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
User_ID	Variable Character	10	No	Unique identifier for each user
First_Name	Variable Character	30	No	User's first name
Last_Name	Variable Character	30	No	User's last name
Email_ID	Variable Character	30	Yes	User's email address
DOB	Date	N/A	No	User's date of birth
Occupation	Variable Character	30	Yes	User's occupation (can be student)
Organization_Name	Variable Character	30	Yes	The name of user's company or school
Purpose	Variable Character	30	Yes	Purpose for registering
number_of_Followers	Number	(10,0)	No	Number of followers for each user

Table 2: Transactions

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Transaction_ID	Variable Character	10	No	Unique identifier for each transaction
Transaction_Date/Time	Datetime	N/A	No	The date and time of the transaction
Share_ID	Variable Character	10	No	Unique identifier for each share (Foreign Key)
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)
Comment	Variable Character	30	Yes	Comment or note for each transaction

Table 3: Transaction_Buyin

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Transaction_ID	Variable Character	10	No	Unique identifier for each transaction
Buy_in_Amount	Number	(10,5)	No	The amount of shares each transaction buys in
number_of_shares_bought	Number	(10,0)	No	Number of shares each transaction bought

Table 4: Transactions_Sell

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Transaction_ID	Variable Character	10	No	Unique identifier for each transaction
Sell_Amount	Number	(10,5)	No	The amount of shares each transaction sell out
number_of_shares_sold	Number	(10,0)	No	Number of shares each transaction sold

Table 5: Portfolio

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Portfolio_ID	Variable Character	10	No	Unique identifier for each portfolio
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)
Current_Invested_Amount	Number	(10,5)	No	The amount that each user had invested in
Balance_in_Hand	Number	(10,5)	No	The amount that each user still had in hand
Date	Date	N/A	No	The date that user bought this portfolio
Time	Datetime	N/A	No	The date and time that the user bought this portfolio

Table 6: individual_Stock_Performance

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Portfolio_ID	Variable Character	10	No	Unique identifier for each portfolio (Foreign Key)
Share_ID	Variable Character	10	No	Unique identifier for each share (Foreign Key)
Current_Price	Number	(10,5)	No	The most current price for the portfolio
number_of_shares owned	Number	(10,0)	No	Number of shares that the user has owned for this portfolio
Average_buy_price	Number	(10,5)	No	The average buying price for the portfolio

Table 7: table_share

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Share_ID	Variable Character	10	No	Unique identifier for each share
Company_ID	Variable Character	10	No	Unique identifier for each company (Foreign Key)
Share_description	Variable Character	99	Yes	The description of each share
Exchange_Name	Variable Character	30	No	The name for the share (Foreign Key)

Table 8: Share_Current

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Share_ID	Variable Character	10	No	Unique identifier for each share
Current_value	Number	(10,5)	No	The current value for the share
number_of_shares_in_market	Number	(10,0)	No	Number of shares outstanding in the market

Table 9: Share_Daily_Summary

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Share_ID	Variable Character	10	No	Unique identifier for each share
Opening_value	Number	(10,5)	No	The value of the share when the exchange opened
Closing_value	Number	(10,5)	No	The value of the share when the exchange closed
Date_1	Date	N/A	No	The date for each opening and closing value

Table 10: Share_Detail_Valuation

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Share_ID	Variable Character	10	No	Unique identifier for each share
Share_value	Number	(10,5)	No	The value of the share for different date and time
Date/Time	Datetime	N/A	No	The date and time of the share value

Table 11: Company

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Company_ID	Variable Character	10	No	Unique identifier for each company
Company_name	Variable Character	30	No	The name for each company

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Type	Variable Character	10	No	The type of company (Public or Private)
Industry_ID	Variable Character	10	No	Unique identifier for each industry

Table 12: Company Information

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Company_ID	Variable Character	10	No	Unique identifier for each company
EPS	Number	(10,2)	No	Earnings per share for the company
P/E Ratio	Number	(10,2)	No	The ratio measure its current share price relative to its per share earnings
Market Capital	Number	(20,0)	No	Total dollar market value of all the company's outstanding shares
Dividends_declared_in_year	Number	(10,2)	No	Dividends of company's outstanding shares

Table 13: Industry

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Industry_ID	Variable Character	10	No	Unique identifier for each industry
Industry_Name	Variable Character	30	No	The name for each industry

Table 14: News

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Company_ID	Variable Character	10	No	Unique identifier for each company
News Description	Variable Character	1000	No	Detailed News

Table 15: Formed_Group

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Group_ID	Variable Character		10 No	Unique identifier for each group
Manager_ID	Variable Character		10 Yes	User ID of the manager of the group (Foreign Key)
Formed_Date	Date	N/A	No	The date that the group is formed
number_of_members	Number	(10,0)	No	Number of members for each group
Group_Name	Variable Character		30 No	The name for the group
Purpose	Variable Character		30 Yes	The purpose for forming the group

Table 16: Users_of_Group

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Group_ID	Variable Character	10	No	Unique identifier for each group (Foreign Key)
User_ID	Variable Character	10	No	Unique identifier for each user(Foreign Key)

Table 17: Competition

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Competition_ID	Variable Character	10	No	Unique identifier for each competition
Prize	Number	(10,0)	Yes	The prize amount for each competition

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Description	Variable Character	1000	Yes	The detailed description and rules for the competition
Start_Date	Date	N/A	No	The start date for the competition
End_Date	Date	N/A	No	The end date for the competition

Table 18: Participant

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Competition_ID	Variable Character	10	No	Unique identifier for each competition (Foreign Key)
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)

Table 19: Donation

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Donation_ID	Variable Character	10	No	Unique identifier for each donation
Donation_Date	Date	N/A	No	The date of the donation
Donation_Time	Time	N/A	No	The time of the donation
User_ID	Variable Character	10	No	Unique identifier for each user
Donation_Amount	Number	(10,0)	No	The amount of the donation
Donation_Purpose	Variable Character	30	Yes	The purpose for the donation

Table 20: Followers/Following

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Following_ID	Variable Character	10	No	User ID for the people that each user is following (Foreign Key)
Followers_ID	Variable Character	10	No	User ID for the people followed the user (Foreign Key)

Table 21: Watch List

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Share_ID	Variable Character	10	No	Unique identifier for each share that the user is watching but hasn't bought yet(Foreign Key)
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)

Table 22: Industry Following

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Industry_ID	Variable Character	10	No	Unique identifier for each industry (Foreign Key)
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)

Table 23: Exchange

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Exchange_Name	Variable Character	30	No	The name of the exchange center
Current_Composite_Rate	Number	(3,5)	No	Up/Down Rate

Table 24: Discussion_Forum_Question

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Question_ID	Variable Character	10	No	Unique identifier for each question (Foreign Key)
Question_Description	Variable Character	1000	No	The detailed content of the question
Share_ID	Variable Character	10	Yes	Unique identifier for each share (Foreign Key)
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)

Table 25: Discussion_Forum_Answer

Attribute Name	Data Type	Valid Values	NULL Allowed	Description of the attribute
Question_ID	Variable Character	10	No	Unique identifier for each question (Foreign Key)
Answer_ID	Variable Character	10	No	Unique identifier for each answer under the question
Answer_Description	Variable Character	1000	No	The detailed content of the answer
User_ID	Variable Character	10	No	Unique identifier for each user (Foreign Key)
Rating	Number	(2,0)	Yes	The rating of usefulness of the answer on a scale of 1-10 by the user who post the question