

# Stock market analysis and data management.

## **ABSTRACT:**

**Stock analysis is the evaluation of a particular trading instrument, an investment sector, or the market as a whole. Stock analysts attempt to determine the future activity of an instrument, sector, or market.**

**Stock analysis is a method for investors and traders to make buying and selling decisions. By studying and evaluating past and current data, investors and traders attempt to gain an edge in the markets by making informed decisions.**

**When running stock analysis on a company's financial statements, an analyst will usually be checking for the measure of a company's profitability, liquidity, solvency, efficiency**

**Stock analysis is the evaluation of a particular trading instrument, an investment sector, or the market as a whole. Stock analysts attempt to determine the future activity of an instrument, sector, or market.**

**Stock analysis is a method for investors and traders to make buying and selling decisions. By studying and evaluating past and current data, investors and traders attempt to gain an edge in the markets by making informed decisions.**

**When running stock analysis on a company's financial statements, an analyst will usually be checking for the measure of a company's profitability, liquidity, solvency, efficiency**

## REQUIREMENT ANALYSIS

List of tables:

- SHAREHOLDERS
- COMPANIES
- HAVE
- CREATES
- PRODUCTS
- USER
- BUYS

List of attributes with their domain types:

Company:

Company id:cid -Number()

Company name:cname-varchar()

Price:-number(10)

Capital: number(20)

Product:

Item\_id:number(5)

Item\_name: varchar(20)

Item\_type:varchar(15)

Shareholders:

S\_id:number(5)

Gain/loss:varchar(5)

S\_name:varchar(10)

Sharevalue:number(10)

C\_name:varchar2(5)

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C\_id-number()

User:

User\_id:number(5)

Item\_id:number(5)

User\_name-varchar(15)

Login\_id:varchar(30)

Password:varchar(20)

Have:

Date: day-date

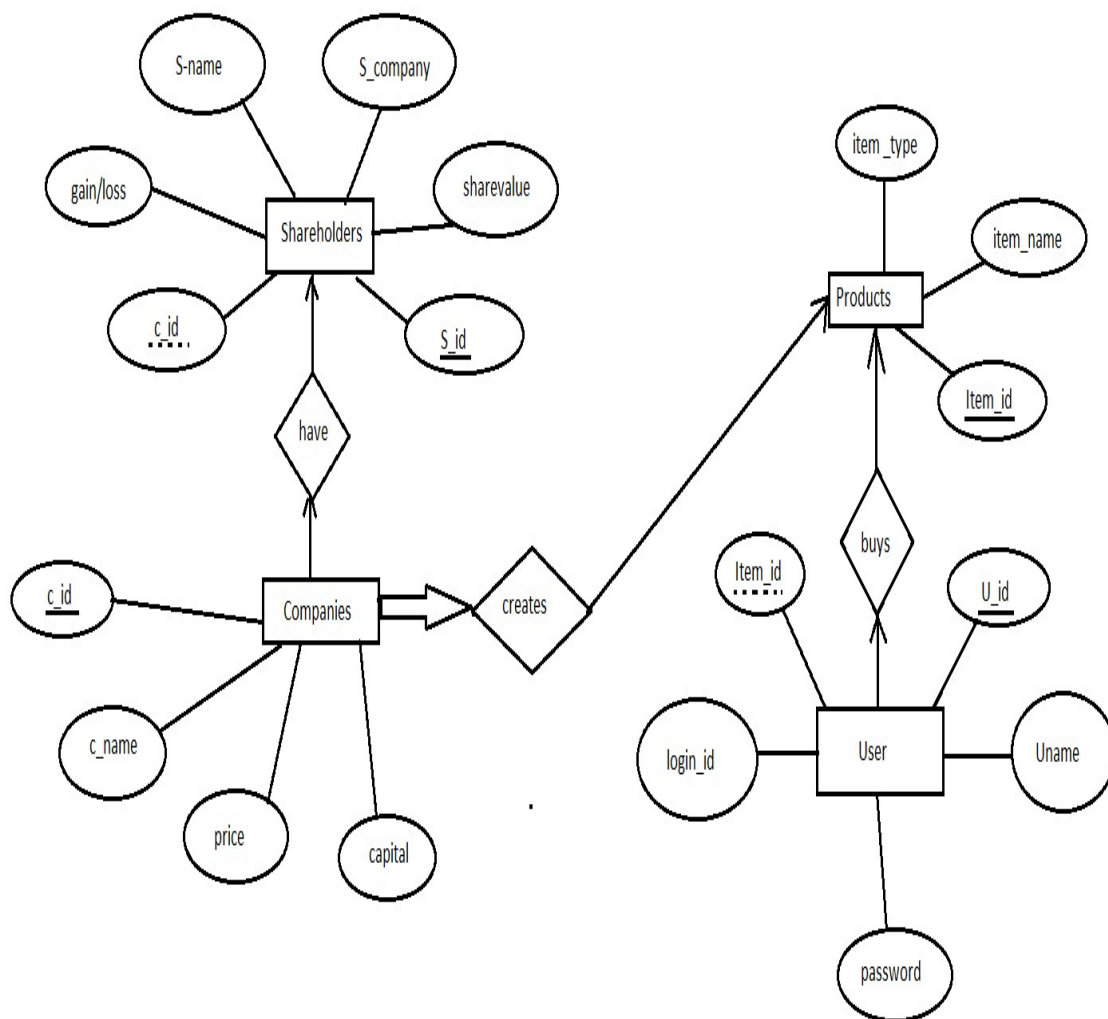
Creates:

Date : day-date

Buys:

Date : day-date

## ER DIAGRAM:



## DML COMMANDS:

```

SQL Plus
SQL> desc product;
Name                                Null?    Type
-----
ITEMNAME                            UARCHAR2(20)
ITEMTYPE                            UARCHAR2(20)
ITEMID                               NOT NULL NUMBER(10)
ITEMPRICE                           NUMBER(10)

SQL> insert into product values('&itemname', '&itemtype', &itemid, &itemprice);
Enter value for itemname: phone
Enter value for itemtype: electrical appliances
Enter value for itemid: 201
Enter value for itemprice: 40000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('phone', 'electrical appliances', 201, 40000)
ERROR:
ORA-01756: quoted string not properly terminated

SQL> insert into product values('&itemname', '&itemtype', &itemid, &itemprice);
Enter value for itemname: oneplus
Enter value for itemtype: mobile
Enter value for itemid: 201
Enter value for itemprice: 40000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('oneplus', 'mobile', 201, 40000)

1 row created.

SQL> /
Enter value for itemname: mac
Enter value for itemtype: laptop
Enter value for itemid: 202
Enter value for itemprice: 100000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('mac', 'laptop', 202, 100000)

1 row created.

SQL> /
Enter value for itemname: fossil
Enter value for itemtype: watch
Enter value for itemid: 203
Enter value for itemprice: 10000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('fossil', 'watch', 203, 10000)

1 row created.

SQL> /

```

## Title: Stock market analysis and data management.

```

SQL Plus
SQL> insert into product values('&itemname','&itemtype',&itemid,&itemprice);
Enter value for itemname: oneplus
Enter value for itemtype: mobile
Enter value for itemid: 201
Enter value for itemprice: 40000
old 1: insert into product values('&itemname','&itemtype',&itemid,&itemprice)
new 1: insert into product values('oneplus','mobile',201,40000)

1 row created.

SQL> /
Enter value for itemname: mac
Enter value for itemtype: laptop
Enter value for itemid: 202
Enter value for itemprice: 100000
old 1: insert into product values('&itemname','&itemtype',&itemid,&itemprice)
new 1: insert into product values('mac','laptop',202,100000)

1 row created.

SQL> /
Enter value for itemname: fossil
Enter value for itemtype: watch
Enter value for itemid: 203
Enter value for itemprice: 10000
old 1: insert into product values('&itemname','&itemtype',&itemid,&itemprice)
new 1: insert into product values('fossil','watch',203,10000)

1 row created.

SQL> /
Enter value for itemname: fz-s v3
Enter value for itemtype: bike
Enter value for itemid: 204
Enter value for itemprice: 120000
old 1: insert into product values('&itemname','&itemtype',&itemid,&itemprice)
new 1: insert into product values('fz-s v3','bike',204,120000)

1 row created.

SQL> select * from product;

ITEMNAME      ITENTYPE      ITEMID  ITEMPRICE
-----
oneplus       mobile        201      40000
mac           laptop        202     100000
fossil        watch         203      10000
fz-s v3       bike          204     120000

SQL>

```

```

SQL Plus
Enter value for ulogin: r401
Enter value for password: ram401
Enter value for itemid: 201
old 1: insert into user1 values(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1 values(401,'ram','r401','ram401',201)

1 row created.

SQL> /
Enter value for userid: suresh
Enter value for uname: s
Enter value for ulogin: s
Enter value for password: s
Enter value for itemid: s
old 1: insert into user1 values(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1 values(suresh,'s','s','s',s)
insert into user1 values(suresh,'s','s','s',s)
ERROR at line 1:
ORA-00984: column not allowed here

SQL> /
Enter value for userid: 402
Enter value for uname: suresh
Enter value for ulogin: suresh402
Enter value for password: suresh
Enter value for itemid: 202
old 1: insert into user1 values(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1 values(402,'suresh','suresh402','suresh',202)

1 row created.

SQL> /
Enter value for userid: 403
Enter value for uname: shiva
Enter value for ulogin: shiva403
Enter value for password: anuvitha
Enter value for itemid: 203
old 1: insert into user1 values(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1 values(403,'shiva','shiva403','anuvitha',203)

1 row created.

SQL> /
Enter value for userid: 404
Enter value for uname: sherlock
Enter value for ulogin: sher404
Enter value for password: sherlock
Enter value for itemid: 104

```

# DBMS Assignment -I

## Title: Stock market analysis and data management.

```
SQL Plus
Enter value for password: suresh
Enter value for itemid: 202
old 1: insert into user1 values(&userid,&uname','&ulogin','&password',&itemid)
new 1: insert into user1 values(402,'suresh','suresh402','suresh',202)

1 row created.

SQL> /
Enter value for userid: 403
Enter value for uname: shiva
Enter value for ulogin: shiva403
Enter value for password: anvitha
Enter value for itemid: 203
old 1: insert into user1 values(&userid,&uname','&ulogin','&password',&itemid)
new 1: insert into user1 values(403,'shiva','shiva403','anvitha',203)

1 row created.

SQL> /
Enter value for userid: 404
Enter value for uname: sherlock
Enter value for ulogin: sher404
Enter value for password: sherlock
Enter value for itemid: 104
old 1: insert into user1 values(&userid,&uname','&ulogin','&password',&itemid)
new 1: insert into user1 values(404,'sherlock','sher404','sherlock',104)
insert into user1 values(404,'sherlock','sher404','sherlock',104)
*
ERROR at line 1:
ORA-02291: integrity constraint (IT18737070.SVS_C0011220) violated - parent key
not found

SQL> select * from user1;
```

USERID	UNAME	ULOGIN	PASSWORD
401	ram	r401	ram401
402	suresh	suresh402	suresh
403	shiva	shiva403	anvitha

```
SQL Plus
SQL> insert into company values(&cid,&cname',&price,&capital);
Enter value for cid: 101
Enter value for cname: lefey
Enter value for price: 5000
Enter value for capital: 50000000
old 1: insert into company values(&cid,&cname',&price,&capital)
new 1: insert into company values(101,'lefey',5000,50000000)

1 row created.

SQL> /
Enter value for cid: 102
Enter value for cname: Spaisa
Enter value for price: 4000
Enter value for capital: 40000000
old 1: insert into company values(&cid,&cname',&price,&capital)
new 1: insert into company values(102,'Spaisa',4000,40000000)

1 row created.

SQL> /
Enter value for cid: 103
Enter value for cname: apple
Enter value for price: 6000
Enter value for capital: 100000000
old 1: insert into company values(&cid,&cname',&price,&capital)
new 1: insert into company values(103,'apple',6000,100000000)

1 row created.

SQL> /
Enter value for cid: 104
Enter value for cname: alpha
Enter value for price: 4657
Enter value for capital: 10000000
old 1: insert into company values(&cid,&cname',&price,&capital)
new 1: insert into company values(104,'alpha',4657,10000000)

1 row created.

SQL> select * from company;
```

CID	CNAME	PRICE	CAPITAL
101	lefey	5000	50000000
102	Spaisa	4000	40000000
103	apple	6000	100000000
104	alpha	4657	10000000



## Title: Stock market analysis and data management.

```

SQL Plus

SQL> desc user1;
      Name                               Null?    Type
-----
USERID                                NOT NULL NUMBER(10)
UNAME                                VARCHAR2(20)
ULOGIN                                VARCHAR2(20)
PASSWORD                             VARCHAR2(20)
ITEMID                                NUMBER(10)

SQL> insert into user1(&userid,&uname,&ulogin,&password,&itemid);
Enter value for userid: 401
Enter value for uname: ram
Enter value for ulogin: r401
Enter value for password: ram401
Enter value for itemid: 201
old 1: insert into user1(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1(401,'ram','r401','ram401',201)
insert into user1(401,'ram','r401','ram401',201)
*
ERROR at line 1:
ORA-00928: missing SELECT keyword

SQL> insert into user1 values(&userid,&uname,&ulogin,&password,&itemid);
Enter value for userid: 401
Enter value for uname: ram
Enter value for ulogin: r401
Enter value for password: ram401
Enter value for itemid: 201
old 1: insert into user1 values(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1 values(401,'ram','r401','ram401',201)
1 row created.

SQL> /
Enter value for userid: suresh
Enter value for uname: s
Enter value for ulogin: s
Enter value for password: s
Enter value for itemid: s
old 1: insert into user1 values(&userid,&uname,&ulogin,&password,&itemid)
new 1: insert into user1 values(suresh,'s','s','s',s)
insert into user1 values(suresh,'s','s','s',s)
*
ERROR at line 1:
ORA-00984: column not allowed here

SQL> /

```

```

SQL Plus

ERROR at line 1:
ORA-00947: not enough values

SQL> insert into shareholders values(&sname,&sid,&gain_or_loss,&sharevalue,&cid);
Enter value for sname: harcha
Enter value for sid: 301
Enter value for gain_or_loss: gain
Enter value for sharevalue: 40
Enter value for cid: 101
old 1: insert into shareholders values(&sname,&sid,&gain_or_loss,&sharevalue,&cid)
new 1: insert into shareholders values('harcha',301,'gain',40,101)
1 row created.

SQL> /
Enter value for sname: teja
Enter value for sid: 302
Enter value for gain_or_loss: loss
Enter value for sharevalue: 5
Enter value for cid: 102
old 1: insert into shareholders values(&sname,&sid,&gain_or_loss,&sharevalue,&cid)
new 1: insert into shareholders values('teja',302,'loss',5,102)
1 row created.

SQL> /
Enter value for sname: abhi
Enter value for sid: 303
Enter value for gain_or_loss: gain
Enter value for sharevalue: 35
Enter value for cid: 103
old 1: insert into shareholders values(&sname,&sid,&gain_or_loss,&sharevalue,&cid)
new 1: insert into shareholders values('abhi',303,'gain',35,103)
1 row created.

SQL> /
Enter value for sname: ajay
Enter value for sid: 304
Enter value for gain_or_loss: loss
Enter value for sharevalue: 20
Enter value for cid: 104
old 1: insert into shareholders values(&sname,&sid,&gain_or_loss,&sharevalue,&cid)
new 1: insert into shareholders values('ajay',304,'loss',20,104)
1 row created.

SQL> /

```

# DBMS Assignment -I

Title: Stock market analysis and data management.

```
SQL Plus
Enter value for itemtype: electrical appliances
Enter value for itemid: 201
Enter value for itemprice: 40000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('phone', 'electrical appliances', 201, 40000)
ERROR:
ORA-01756: quoted string not properly terminated

SQL> insert into product values('&itemname', '&itemtype', &itemid, &itemprice);
Enter value for itemname: oneplus
Enter value for itemtype: mobile
Enter value for itemid: 201
Enter value for itemprice: 40000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('oneplus', 'mobile', 201, 40000)

1 row created.

SQL> /
Enter value for itemname: mac
Enter value for itemtype: laptop
Enter value for itemid: 202
Enter value for itemprice: 100000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('mac', 'laptop', 202, 100000)

1 row created.

SQL> /
Enter value for itemname: fossil
Enter value for itemtype: watch
Enter value for itemid: 203
Enter value for itemprice: 10000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('fossil', 'watch', 203, 10000)

1 row created.

SQL> /
Enter value for itemname: fz-s v3
Enter value for itemtype: bike
Enter value for itemid: 204
Enter value for itemprice: 120000
old 1: insert into product values('&itemname', '&itemtype', &itemid, &itemprice)
new 1: insert into product values('fz-s v3', 'bike', 204, 120000)

1 row created.

SQL> |
```

```
SQL Plus
SQL> desc company;
Name                               Null?  Type
-----
CID                                NOT NULL NUMBER(10)
CNAME                             VARCHAR2(20)
PRICE                             NUMBER(10)
CAPITAL                           NUMBER(20)

SQL> insert into company values(&cid, '&cname', &price, &capital);
Enter value for cid: 101
Enter value for cname: lefey
Enter value for price: 5000
Enter value for capital: 500000000
old 1: insert into company values(&cid, '&cname', &price, &capital)
new 1: insert into company values(101, 'lefey', 5000, 500000000)

1 row created.

SQL> /
Enter value for cid: 102
Enter value for cname: Spaisa
Enter value for price: 4000
Enter value for capital: 40000000
old 1: insert into company values(&cid, '&cname', &price, &capital)
new 1: insert into company values(102, 'Spaisa', 4000, 40000000)

1 row created.

SQL> /
Enter value for cid: 103
Enter value for cname: apple
Enter value for price: 6000
Enter value for capital: 100000000
old 1: insert into company values(&cid, '&cname', &price, &capital)
new 1: insert into company values(103, 'apple', 6000, 100000000)

1 row created.

SQL> /
Enter value for cid: 104
Enter value for cname: alpha
Enter value for price: 4657
Enter value for capital: 10000000
old 1: insert into company values(&cid, '&cname', &price, &capital)
new 1: insert into company values(104, 'alpha', 4657, 10000000)

1 row created.

SQL>
```

## Title: Stock market analysis and data management.

```

SQL Plus
SQL> /
Enter value for sname: teja
Enter value for sid: 302
Enter value for gain_or_loss: loss
Enter value for sharevalue: 5
Enter value for cid: 102
old 1: insert into shareholders values('&sname',&sid,'&gain_or_loss',&sharevalue,&cid)
new 1: insert into shareholders values('teja',302,'loss',5,102)

1 row created.

SQL> /
Enter value for sname: abhi
Enter value for sid: 303
Enter value for gain_or_loss: gain
Enter value for sharevalue: 35
Enter value for cid: 103
old 1: insert into shareholders values('&sname',&sid,'&gain_or_loss',&sharevalue,&cid)
new 1: insert into shareholders values('abhi',303,'gain',35,103)

1 row created.

SQL> /
Enter value for sname: ajay
Enter value for sid: 304
Enter value for gain_or_loss: loss
Enter value for sharevalue: 20
Enter value for cid: 104
old 1: insert into shareholders values('&sname',&sid,'&gain_or_loss',&sharevalue,&cid)
new 1: insert into shareholders values('ajay',304,'loss',20,104)

1 row created.

SQL> select * from table shareholders;
select * from table shareholders
      *
ERROR at line 1:
ORA-00906: missing left parenthesis

SQL> select * from shareholders;

SNAME          SID GAIN_OR_LOSS  SHAREVALUE    CID
-----
harsha         301 gain           40         101
teja           302 loss            5         102
abhi           303 gain           35         103
ajay           304 loss            20         104

SQL>

```

Title: Stock market analysis and data management.

## DDL COMMANDS:

```
SQL Plus
SQL>Plus: Release 11.2.0.1.0 Production on Wed Feb 12 19:55:05 2020
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: it18737070
Enter password:
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> create table shareholders(sname varchar2(20),sid numeric(10),gain_or_loss numeric(10),sharevalue numeric(10));
Table created.

SQL> desc shareholders;
Name                               Null?    Type
-----
SNAME                               VARCHAR2(20)
SID                                 NUMBER(10)
GAIN_OR_LOSS                        NUMBER(10)
SHAREVALUE                         NUMBER(10)

SQL> create table company(cid numeric(10),cname varchar2(20),price numeric(10),capital numeric(20));
Table created.

SQL> desc company;
Name                               Null?    Type
-----
CID                                 NUMBER(10)
CNAME                              VARCHAR2(20)
PRICE                              NUMBER(10)
CAPITAL                            NUMBER(20)

SQL> create table product(itemname varchar2(20),itemtype varchar2(20),itemid numeric(10),itemprice numeric(10));
Table created.

SQL> desc product;
Name                               Null?    Type
-----
ITEMNAME                           VARCHAR2(20)
ITEMTYPE                           VARCHAR2(20)
ITEMID                             NUMBER(10)
ITEMPRICE                          NUMBER(10)

SQL>
```

```
SQL Plus
USERID                               NOT NULL NUMBER(10)
UNAME                               VARCHAR2(20)
ULOGIN                              VARCHAR2(20)
PASSWORD                            VARCHAR2(20)

SQL> alter table shareholders add cid numeric(10) references company;
Table altered.

SQL> desc
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc shareholders
Name                               Null?    Type
-----
SNAME                               VARCHAR2(20)
SID                                 NOT NULL NUMBER(10)
GAIN_OR_LOSS                       NUMBER(10)
SHAREVALUE                         NUMBER(10)
CID                                 NUMBER(10)

SQL> insert into shareholders(&cid) values(101);
Enter value for cid: 101
old 1: insert into shareholders(&cid) values(101)
new 1: insert into shareholders(101) values(101)
insert into shareholders(101) values(101)
*
ERROR at line 1:
ORA-00928: missing SELECT keyword

SQL> select * from shareholders;

no rows selected

SQL> alter table shareholders add cname varchar2(20) references company;
alter table shareholders add cname varchar2(20) references company
*
ERROR at line 1:
ORA-02267: column type incompatible with referenced column type

SQL> desc company;
Name                               Null?    Type
-----
CID                                 NOT NULL NUMBER(10)
CNAME                              VARCHAR2(20)
PRICE                              NUMBER(10)
CAPITAL                            NUMBER(20)

SQL> alter table user add itemid references product;
```

## Title: Stock market analysis and data management.

```

SQL Plus

Table created.

SQL> desc company;
      Name                          Null?     Type
-----
CID                                NUMBER(10)
CNAME                             VARCHAR2(20)
PRICE                             NUMBER(10)
CAPITAL                           NUMBER(20)

SQL> create table product(itemname varchar2(20),itemtype varchar2(20),itemid numeric(10),itemprice numeric(10));

Table created.

SQL> desc product;
      Name                          Null?     Type
-----
ITEMNAME                           VARCHAR2(20)
ITEMTYPE                           VARCHAR2(20)
ITEMID                             NUMBER(10)
ITEMPRICE                          NUMBER(10)

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));
create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20))
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));
create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20))
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table user1(userid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));

Table created.

SQL> desc user1
      Name                          Null?     Type
-----
USERID                             NUMBER(10)
UNAME                              VARCHAR2(20)
ULOGIN                             VARCHAR2(20)
PASSWORD                           VARCHAR2(20)

SQL>

```

```

SQL Plus

Table created.

SQL> desc shareholders;
      Name                          Null?     Type
-----
SNAME                              VARCHAR2(20)
SID                                NUMBER(10)
GAIN_OR_LOSS                        NUMBER(10)
SHAREVALUE                          NUMBER(10)

SQL> create table company(cid numeric(10),cname varchar2(20),price numeric(10),capital numeric(20));

Table created.

SQL> desc company;
      Name                          Null?     Type
-----
CID                                NUMBER(10)
CNAME                             VARCHAR2(20)
PRICE                             NUMBER(10)
CAPITAL                           NUMBER(20)

SQL> create table product(itemname varchar2(20),itemtype varchar2(20),itemid numeric(10),itemprice numeric(10));

Table created.

SQL> desc product;
      Name                          Null?     Type
-----
ITEMNAME                           VARCHAR2(20)
ITEMTYPE                           VARCHAR2(20)
ITEMID                             NUMBER(10)
ITEMPRICE                          NUMBER(10)

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));
create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20))
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));
create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20))
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));

```

## Title: Stock market analysis and data management.

```

SQL Plus

SQL>Plus: Release 11.2.0.1.0 Production on Wed Feb 12 19:55:05 2020

Copyright (c) 1982, 2010, Oracle. All rights reserved.

Enter user-name: it18737070
Enter password:

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> create table shareholders(sname varchar2(20),sid numeric(10),gain_or_loss numeric(10),sharevalue numeric(10));

Table created.

SQL> desc shareholders;
      Name                          Null?    Type
-----
SNAME                          VARCHAR2(20)
SID                            NUMBER(10)
GAIN_OR_LOSS                   NUMBER(10)
SHAREVALUE                     NUMBER(10)

SQL> create table company(cid numeric(10),cname varchar2(20),price numeric(10),capital numeric(20));

Table created.

SQL> desc company;
      Name                          Null?    Type
-----
CID                            NUMBER(10)
CNAME                          VARCHAR2(20)
PRICE                          NUMBER(10)
CAPITAL                        NUMBER(20)

SQL> |

```

```

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));
create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20))
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));
create table user1(uid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20))
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table user1(userid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));

Table created.

SQL> desc user1
      Name                          Null?    Type
-----
USERID                          NUMBER(10)
UNAME                          VARCHAR2(20)
ULOGIN                         VARCHAR2(20)
PASSWORD                       VARCHAR2(20)

SQL> select * from tab
2 ;

TNAME          TABTYPE  CLUSTERID
-----
COMPANY        TABLE
PRODUCT        TABLE
SHAREHOLDERS   TABLE
USER1          TABLE

SQL> alter table company add primary key(cid);

Table altered.

SQL> desc company;
      Name                          Null?    Type
-----
CID                            NOT NULL NUMBER(10)
CNAME                          VARCHAR2(20)
PRICE                          NUMBER(10)
CAPITAL                        NUMBER(20)

SQL> |

```

## DBMS Assignment -I

### Title: Stock market analysis and data management.

```
SQL Plus
-----
CID                NOT NULL  NUMBER(10)
CNAME              VARCHAR2(20)
PRICE              NUMBER(10)
CAPITAL            NUMBER(20)

SQL> alter table user add itemid references product;
alter table user add itemid references product
      *
ERROR at line 1:
ORA-00903: invalid table name

SQL> alter user1 add itemid references product;
alter user1 add itemid references product
      *
ERROR at line 1:
ORA-00940: invalid ALTER command

SQL> desc user1;
-----
Name                Null?    Type
-----
USERID              NOT NULL NUMBER(10)
UNAME               VARCHAR2(20)
ULOGIN              VARCHAR2(20)
PASSWORD            VARCHAR2(20)

SQL> desc product;
-----
Name                Null?    Type
-----
ITEMNAME            VARCHAR2(20)
ITEMTYPE            VARCHAR2(20)
ITEMID              NOT NULL NUMBER(10)
ITEMPRICE           NUMBER(10)

SQL> alter table user1 add itemid references product;

Table altered.

SQL> desc user1;
-----
Name                Null?    Type
-----
USERID              NOT NULL NUMBER(10)
UNAME               VARCHAR2(20)
ULOGIN              VARCHAR2(20)
PASSWORD            VARCHAR2(20)
ITEMID              NUMBER(10)

SQL>
```

```
SQL Plus
ORA-00904: : invalid identifier

SQL> create table user1(userid numeric(10),uname varchar2(20),ulogin varchar2(20),password varchar2(20));

Table created.

SQL> desc user1
-----
Name                Null?    Type
-----
USERID              NUMBER(10)
UNAME               VARCHAR2(20)
ULOGIN              VARCHAR2(20)
PASSWORD            VARCHAR2(20)

SQL> select * from tab
2 ;
-----
TNAME                TABTYPE CLUSTERID
-----
COMPANY              TABLE
PRODUCT              TABLE
SHAREHOLDERS          TABLE
USER1                 TABLE

SQL> alter table company add primary key(cid);

Table altered.

SQL> desc company;
-----
Name                Null?    Type
-----
CID                NOT NULL  NUMBER(10)
CNAME              VARCHAR2(20)
PRICE              NUMBER(10)
CAPITAL            NUMBER(20)

SQL> alter table product add primary key(itemid);

Table altered.

SQL> desc product;
-----
Name                Null?    Type
-----
ITEMNAME            VARCHAR2(20)
ITEMTYPE            VARCHAR2(20)
ITEMID              NOT NULL  NUMBER(10)
ITEMPRICE           NUMBER(10)

SQL>
```



## Title: Stock market analysis and data management.

```

SQL Plus
ULOGIN          VARCHAR2(20)
PASSWORD        VARCHAR2(20)

SQL> select * from tab
2 ;

TABLENAME          TABTYPE CLUSTERID
-----
COMPANY            TABLE
PRODUCT            TABLE
SHAREHOLDERS       TABLE
USER1              TABLE

SQL> alter table company add primary key(cid);

Table altered.

SQL> desc company;
Name                   Null?    Type
-----
CID                     NOT NULL NUMBER(10)
CNAME                   VARCHAR2(20)
PRICE                   NUMBER(10)
CAPITAL                 NUMBER(20)

SQL> alter table product add primary key(itemid);

Table altered.

SQL> desc product;
Name                   Null?    Type
-----
ITEMNAME                VARCHAR2(20)
ITEMTYPE                VARCHAR2(20)
ITEMID                  NOT NULL NUMBER(10)
ITEMPRICE                NUMBER(10)

SQL> alter table shareholders add primary key(sid);

Table altered.

SQL> desc shareholders;
Name                   Null?    Type
-----
SNAME                   VARCHAR2(20)
SID                     NOT NULL NUMBER(10)
GAIN_OR_LOSS            NUMBER(10)
SHAREVALUE              NUMBER(10)

SQL>

```

```

SQL Plus

SQL> alter table user1 add itemid references product;

Table altered.

SQL> desc user1;
Name                   Null?    Type
-----
USERID                 NOT NULL NUMBER(10)
UNAME                  VARCHAR2(20)
ULOGIN                 VARCHAR2(20)
PASSWORD               VARCHAR2(20)
ITEMID                 NUMBER(10)

SQL> create table have ();
create table have ()
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table have(sid numeric(10),cid numeric(10));

Table created.

SQL> alter table have add foreign key(cid) references company;

Table altered.

SQL> insert into have(&cid) values(101);
Enter value for cid: 101
old 1: insert into have(&cid) values(101)
new 1: insert into have(101) values(101)
insert into have(101) values(101)
*
ERROR at line 1:
ORA-00928: missing SELECT keyword

SQL> alter table have add foreign key(sid) references shareholders;

Table altered.

SQL> desc have;
Name                   Null?    Type
-----
SID                     NUMBER(10)
CID                     NUMBER(10)

SQL>

```



# DBMS Assignment -I

## Title: Stock market analysis and data management.

```
SQL Plus

SQL> alter table company add primary key(cid);

Table altered.

SQL> desc company;
-----
Name                          Null?   Type
-----
CID                            NOT NULL NUMBER(10)
CNAME                          VARCHAR2(20)
PRICE                          NUMBER(10)
CAPITAL                        NUMBER(20)

SQL> alter table product add primary key(itemid);

Table altered.

SQL> desc product;
-----
Name                          Null?   Type
-----
ITEMNAME                       VARCHAR2(20)
ITEMTYPE                       VARCHAR2(20)
ITEMID                         NOT NULL NUMBER(10)
ITEMPRICE                      NUMBER(10)

SQL> alter table shareholders add primary key(sid);

Table altered.

SQL> desc shareholders;
-----
Name                          Null?   Type
-----
SNAME                          VARCHAR2(20)
SID                            NOT NULL NUMBER(10)
GAIN_OR_LOSS                   NUMBER(10)
SHAREVALUE                     NUMBER(10)

SQL> alter table user1 add primary key(userid);

Table altered.

SQL> desc user1;
-----
Name                          Null?   Type
-----
USERID                         NOT NULL NUMBER(10)
UNAME                          VARCHAR2(20)
ULOGIN                         VARCHAR2(20)
PASSWORD                       VARCHAR2(20)

SQL> |
```

```
SQL Plus

SQL> alter table have add foreign key(cid) references company;

Table altered.

SQL> insert into have(cid) values(101);
Enter value for cid: 101
old 1: insert into have(cid) values(101)
new 1: insert into have(101) values(101)
insert into have(101) values(101)
*
ERROR at line 1:
ORA-00928: missing SELECT keyword

SQL> alter table have add foreign key(sid) references shareholders;

Table altered.

SQL> desc have;
-----
Name                          Null?   Type
-----
SID                            NUMBER(10)
CID                            NUMBER(10)

SQL> create table creates(cid numeric(10),itemid numeric(10));

Table created.

SQL> desc creates;
-----
Name                          Null?   Type
-----
CID                            NUMBER(10)
ITEMID                         NUMBER(10)

SQL> alter table creates add foreign key(cid) references company;

Table altered.

SQL> alter table creates add foreign key(itemid) references product;

Table altered.

SQL> desc creates;
-----
Name                          Null?   Type
-----
CID                            NUMBER(10)
ITEMID                         NUMBER(10)

SQL> |
```

## Title: Stock market analysis and data management.

```

SQL Plus
Name          Null?    Type
-----
ITEMNAME      VARCHAR2(20)
ITEMTYPE      VARCHAR2(20)
ITEMID        NOT NULL NUMBER(10)
ITEMPRICE     NUMBER(10)

SQL> alter table user1 add itemid references product;

Table altered.

SQL> desc user1;
Name          Null?    Type
-----
USERID        NOT NULL NUMBER(10)
UNAME         VARCHAR2(20)
ULOGIN        VARCHAR2(20)
PASSWORD      VARCHAR2(20)
ITEMID        NUMBER(10)

SQL> create table have ();
create table have ()
*
ERROR at line 1:
ORA-00904: : invalid identifier

SQL> create table have(sid numeric(10),cid numeric(10));

Table created.

SQL> alter table have add foreign key(cid) references company;

Table altered.

SQL> insert into have(&cid) values(101);
Enter value for cid: 101
old 1: insert into have(&cid) values(101)
new 1: insert into have(101) values(101)
insert into have(101) values(101)
*
ERROR at line 1:
ORA-00928: missing SELECT keyword

SQL> alter table have add foreign key(sid) references shareholders;

Table altered.

SQL> desc

```

```

SQL Plus

SQL> desc have;
Name          Null?    Type
-----
SID           NUMBER(10)
CID           NUMBER(10)

SQL> create table creates(cid numeric(10),itemid numeric(10));

Table created.

SQL> desc creates;
Name          Null?    Type
-----
CID           NUMBER(10)
ITEMID        NUMBER(10)

SQL> alter table creates add foreign key(cid) references company;

Table altered.

SQL> alter table creates add foreign key(itemid) references product;

Table altered.

SQL> desc creates;
Name          Null?    Type
-----
CID           NUMBER(10)
ITEMID        NUMBER(10)

SQL> create table buys(userid numeric(10),itemid numeric(10));

Table created.

SQL> alter table buys add foreign key(userid) references user1;

Table altered.

SQL> alter table buys add foreign key(itemid) references product;

Table altered.

SQL> desc buys;
Name          Null?    Type
-----
USERID        NUMBER(10)
ITEMID        NUMBER(10)

SQL>

```