

# **QUERIES**

## **1. Create Account**

```
INSERT INTO "User" VALUES  
(12345678,'JP','JP%2210','jp2210@gmail.com');
```

## **2. Update Personal Details**

```
UPDATE Trader SET Mobile_NO='+919192939495' WHERE  
Login_ID=12345678;
```

## **3. Change Password**

```
UPDATE "User" SET Password='JP#2210' WHERE  
Login_ID=12345678;
```

## **4. Search a particular stock based on stock symbol**

```
SELECT * FROM Stock WHERE  
StockSymbol='PTLOPBLEZSMRKLD';
```

**5. Search a particular stock based on company name**

**SELECT \* FROM Stock WHERE Company\_Name='Oozz';**

**6. Search stocks whose current price is between 2000 to 5000**

**SELECT \* FROM Stock WHERE Curr\_Price>=2000 AND  
Curr\_Price<=5000;**

**7. Search cheapest stock**

**SELECT \* FROM Stock ORDER BY Curr\_Price LIMIT 1;**

**8. See stocks in ascending order of price**

**SELECT \* FROM Stock ORDER BY Curr\_Price;**

**9. Search most expensive stock**

**SELECT \* FROM Stock ORDER BY Curr\_Price DESC LIMIT 1;**

**10. See stocks in descending order of price**

**SELECT \* FROM Stock ORDER BY Curr\_Price DESC;**

**11. Search a particular stock based on sector of the company**

```
SELECT * FROM Stock JOIN Company ON  
Company_Name=Name WHERE Sector='Media';
```

**12. Search a particular stock based on Revenue**

```
SELECT * FROM Stock JOIN Company ON  
Company_Name=Name WHERE Revenue>=10000000 AND  
Revenue<=100000000000;
```

**13. Search a stock whose company's revenue is highest**

```
SELECT * FROM Stock JOIN Company ON  
Company_Name=Name ORDER BY Revenue DESC LIMIT 1;
```

**14. Search a Most bought Stock in specified duration**

```
SELECT StockSymbol, StockExchange, SUM(Quantity) AS  
Total_Bought_Quantity  
FROM (SELECT * FROM StockOrder WHERE Status='Approved'  
AND Buy_Or_Sell='Buy' AND purchase_Date>= DATE'2005-06-29'  
AND purchase_Date <= DATE '2022-06-29') AS Orders  
GROUP BY StockSymbol, StockExchange  
ORDER BY Total_Bought_Quantity DESC  
LIMIT 1;
```

### **15. Search a Most sold Stock in specified duration**

```
SELECT StockSymbol,StockExchange,sum(Quantity) AS  
Total_Bought_Quantity FROM (SELECT * FROM StockOrder  
WHERE Status='Approved' AND Buy_Or_Sell='Sell'  
purchase_Date>= DATE'2005-06-29' AND purchase_Date <= DATE  
'2022-06-29') AS Orders GROUP BY StockSymbol,StockExchange  
ORDER BY Total_Bought_Quantity DESC LIMIT 1;
```

### **16. Buy stock based on price**

```
INSERT INTO StockOrder VALUES  
('PTLOPBLEZSMRKLD','NSE',56426096,CURRENT_DATE,CURRE  
NT_TIME,100,10,'Buy','Pending');
```

### **17. Sell stock based on price**

```
INSERT INTO StockOrder VALUES  
('PTLOPBLEZSMRKLD','NSE',56426096,CURRENT_DATE,CURRE  
NT_TIME,100,10,'Sell','Pending');
```

### **18. Overall buying of particular stock in interval**

```
SELECT StockSymbol,StockExchange,sum(Quantity) AS  
Total_Bought_Quantity  
FROM (SELECT * FROM StockOrder WHERE Status='Approved'  
AND Buy_Or_Sell='Buy' AND purchase_Date>=DATE '2005-06-29'  
AND purchase_Date<=DATE '2022-06-29') AS Orders  
GROUP BY StockSymbol,StockExchange HAVING  
StockSymbol='PTLOPBLEZSMRKLD' AND  
StockExchange='NSE';
```

### **19. Overall selling of particular stock in interval**

```
SELECT StockSymbol,StockExchange,sum(Quantity) AS  
Total_Bought_Quantity  
FROM (SELECT * FROM StockOrder WHERE Status='Approved'  
AND Buy_Or_Sell='Sell' AND purchase_Date>=DATE '2005-06-29'  
AND purchase_Date<=DATE '2022-06-29') AS Orders  
GROUP BY StockSymbol,StockExchange HAVING  
StockSymbol='PTLOPBLEZSMRKLD' AND  
StockExchange='NSE';
```

### **20. Add Stock from Watchlist**

```
INSERT INTO STOCK_WATCHLIST VALUES  
('PTLOPBLEZSMRKLD','NSE',56426096);
```

### **21. Remove Stock from Watchlist**

```
DELETE FROM STOCK_WATCHLIST WHERE  
StockSymbol='PTLOPBLEZSMRKLD' AND StockExchange='NSE'  
AND Login_ID=56426096;
```

## **22. Search upcoming IPO**

```
SELECT * FROM IPO WHERE Startdate>=CURRENT_DATE;
```

## **23. Bid for IPO**

```
INSERT INTO Bidded VALUES  
('Oozz','NSE','2005-04-07','2005-04-27',56426096,'PENDING',1);
```

## **24. Add IPO from Watchlist**

```
INSERT INTO IPO_WATCHLIST VALUES  
('Oozz','NSE','2005-04-07','2005-04-27',56426096);
```

## **25. Remove IPO from Watchlist**

```
DELETE FROM IPO_WATCHLIST WHERE Company_Name='Oozz'  
AND Stockexchange='NSE' AND Startdate='2005-04-07' AND  
Enddate='2005-04-27' AND Login_ID=56426096;
```

## **26. Find Listing Date for IPO**

```
SELECT Listing_Date FROM IPO WHERE Company_Name='Oozz'  
AND Stockexchange='NSE' AND Startdate='2005-04-07' AND  
Enddate='2005-04-27';
```

## **27. See current holdings of Stock**

```
SELECT * FROM Owns WHERE Login_ID=56426096;
```

## **28. See list of IPO for which user applied**

```
SELECT * FROM Bidded WHERE Login_ID=56426096;
```

## **29. Add Bank Account**

```
INSERT INTO Bank_Account VALUES ('State Bank Of  
India','203124203123','SBIN0016737',56426096);
```

### **30. Add Money in Bank Account From Wallet**

```
INSERT INTO Transaction VALUES ('DT222222228','Net  
Banking','Credit',20000,'State Bank Of  
India','APPROVED','203124203123',CURRENT_DATE,CURRENT_T  
IME);  
UPDATE Trader SET Wallet_Amount=Wallet_Amount+20000;
```

### **31. Withdraw Money in Bank Account From Wallet**

```
INSERT INTO Transaction VALUES ('DT222222229','Net  
Banking','Debit',20000,'State Bank Of  
India','APPROVED','203124203123',CURRENT_DATE,CURRENT_T  
IME);  
UPDATE Trader SET Wallet_Amount=Wallet_Amount-20000;
```

### **32. Overall Transaction Report for a Bank Account of Trader**

```
SELECT * FROM Transaction WHERE  
Bank_Ac_No='203124203123' AND Bank_Name='SBIN0016737';
```

### **33. Total Credited money in particular Bank Account**

```
SELECT sum(Amount)
```



**FROM (SELECT \* FROM Transaction WHERE  
Credit\_or\_Debit='Credit') AS credit\_transaction  
GROUP BY Bank\_Ac\_No,Bank\_Name HAVING  
Bank\_Ac\_No='203124203123' AND Bank\_Name='SBIN0016737';**

### **34. Total Debited money in particular Bank Account**

**SELECT sum(Amount)  
FROM (SELECT \* FROM Transaction WHERE  
Credit\_or\_Debit='Debit') AS debit\_transaction  
GROUP BY Bank\_Ac\_No,Bank\_Name HAVING  
Bank\_Ac\_No='203124203123' AND Bank\_Name='SBIN0016737';**

### **35. Search and get details of Mutual Fund**

**SELECT \* FROM Mutual\_Funds WHERE MFSymbol='ZOR2X' AND  
StockExchange='BSE';**

### **36. See the collection of stocks for Mutual fund for given duration**

**SELECT \* FROM Is\_Collection\_Of WHERE MFSymbol='ZOR2X'  
AND MF\_StockExchange='BSE' AND Duration &&  
tstzrange('2000-01-01', '2016-12-31', '[');**

### **37. Buy Mutual Funds**

**INSERT INTO Mutual\_Funds\_Orders VALUES  
('ZOR2X','BSE',56426096,CURRENT\_DATE,CURRENT\_TIME,100,1  
0,'Buy','Pending');**

### **38. Sell Mutual Funds**

**INSERT INTO Mutual\_Funds\_Orders VALUES  
('ZOR2X','BSE',56426096,CURRENT\_DATE,CURRENT\_TIME,10,10  
, 'Sell','Pending');**

### **39. Overall Buying of particular Mutual fund in specified duration**

**SELECT MFSymbol,StockExchange,sum(Quantity) AS  
Total\_Bought\_Quantity  
FROM (SELECT \* FROM Mutual\_Funds\_Orders WHERE  
Status='Approved' AND Buy\_Or\_Sell='Buy' AND  
purchase\_Date>=DATE '2005-05-06' AND purchase\_Date<=DATE  
'2022-01-31') AS Orders  
GROUP BY MFSymbol,StockExchange HAVING  
MFSymbol='ZOR2X' AND StockExchange='BSE';**

### **40. Add Mutual Fund from watchlist**

**INSERT INTO Mutual\_Fund\_Watchlist VALUES  
('ZOR2X','BSE',56426096);**

#### **41. Remove Mutual Fund from watchlist**

```
DELETE FROM Mutual_Fund_Watchlist WHERE  
MFSymbol='ZOR2X' AND StockExchange='BSE' AND  
Login_ID=56426096;
```

#### **42. Search Mutual Funds whose price is between 800 and 10000**

```
SELECT * FROM Mutual_Funds WHERE Curr_Price>=800 AND  
Curr_Price<=10000;
```

#### **43. Search cheapest Mutual Fund**

```
SELECT * FROM Mutual_Funds ORDER BY Curr_Price LIMIT 1;
```

#### **44. See Mutual funds in ascending order of price**

```
SELECT * FROM Mutual_Funds ORDER BY Curr_Price;
```

#### **45. Search most expensive stock**

```
SELECT * FROM Mutual_Funds ORDER BY Curr_Price DESC  
LIMIT 1;
```

#### **46. See Mutual funds in descending order of price**

**SELECT \* FROM Mutual\_Funds ORDER BY Curr\_Price DESC;**

**47. Search a blogs from keywords**

**SELECT \* FROM Blogs WHERE Title='#Healthy#';**

**48. Search a blogs from a particular author**

**SELECT \* FROM Blogs NATURAL JOIN has\_written NATURAL  
JOIN "User" WHERE Name='Genni';**

**49. Search company information**

**SELECT \* FROM Company JOIN Stock ON  
Name=Company\_Name WHERE Company\_Name='Oozz';**

**50. See sector wise holdings**

**SELECT Sector,sum(Quantity) AS Total\_Quantity FROM  
(Company JOIN Stock ON Name=Company\_Name) NATURAL  
JOIN Owns GROUP BY Sector;**

### **51. List of companies in which user have invested**

**SELECT Company\_Name FROM (Company JOIN Stock ON  
Name=Company\_Name) NATURAL JOIN Owns WHERE  
Login\_ID=56426096;**

### **52. Average Buying Price of particular user for all stock**

**SELECT**

**StockExchange,StockSymbol,buying\_price\_totals.total\_buying\_p  
rice / quantity\_totals.total\_quantity AS average\_buying\_price  
FROM**

**(SELECT  
    StockSymbol, StockExchange, SUM(Quantity \*  
Threshold\_Value) AS total\_buying\_price  
FROM  
    StockOrder  
WHERE  
    Login\_ID = 56426096 AND Buy\_Or\_Sell='Buy' AND  
Status='Approved'  
GROUP BY  
    StockSymbol, StockExchange) AS buying\_price\_totals  
NATURAL JOIN**

```

(SELECT
    StockSymbol, StockExchange, SUM(Quantity) AS
total_quantity
FROM
    StockOrder
WHERE
    Login_ID = 56426096 AND Buy_Or_Sell='Buy' AND
Status='Approved'
GROUP BY
    StockSymbol, StockExchange) AS quantity_totals;

```

### **53. Total invested value in stock**

```

SELECT
    sum((buying_price_totals.total_buying_price /
quantity_totals.total_quantity)*(Quantity)) AS Total_Investment
FROM
    (SELECT
        StockSymbol, StockExchange, SUM(Quantity *
Threshold_Value) AS total_buying_price
FROM
        StockOrder
WHERE
        Login_ID = 56426096 AND Buy_Or_Sell='Buy' AND
Status='Approved'
GROUP BY
        StockSymbol, StockExchange) AS buying_price_totals
NATURAL JOIN
    (SELECT
        StockSymbol, StockExchange, SUM(Quantity) AS
total_quantity
FROM

```

```
        StockOrder
WHERE
    Login_ID = 56426096 AND Buy_Or_Sell='Buy' AND
Status='Approved'
GROUP BY
    StockSymbol, StockExchange) AS quantity_totals
NATURAL JOIN Owns;
```

#### **54. See total current value of holdings**

```
SELECT sum(Quantity*Curr_Price) AS curr_holdings FROM
Stock NATURAL JOIN Owns GROUP BY Login_ID HAVING
Login_ID=56426096;
```

#### **55. Total unrealised profit/loss for particular user**

```
SELECT
    sum((curr_price-(buying_price_totals.total_buying_price /
quantity_totals.total_quantity))*(Quantity)) AS
Total_Unrealised_Profit_OR_Loss
FROM
    (SELECT
        StockSymbol, StockExchange, SUM(Quantity *
Threshold_Value) AS total_buying_price
    FROM
        StockOrder
    WHERE
        Login_ID = 56426096 AND Buy_Or_Sell='Buy' AND
Status='Approved')
```

```

GROUP BY
    StockSymbol, StockExchange) AS buying_price_totals
NATURAL JOIN
(SELECT
    StockSymbol, StockExchange, SUM(Quantity) AS
total_quantity
FROM
    StockOrder
WHERE
    Login_ID = 56426096 AND Buy_Or_Sell='Buy' AND
Status='Approved'
GROUP BY
    StockSymbol, StockExchange) AS quantity_totals
NATURAL JOIN Owns
NATURAL JOIN Stock;

```

## **56. Write Blogs**

```

INSERT INTO Blogs VALUES (4521,'Stock Market','Stock is main
entity in Stock Market.',CURRENT_DATE,CURRENT_TIME);
INSERT INTO has_written VALUES(4521,24722292);

```

## **57. Total payable fees in term of brokerage rate for specified interval for particular user**

```

SELECT sum(Quantity*Threshold_Value*Brokerage_Rate) As
total_return_in_term_of_brokerage_rate

```



**FROM (SELECT \* FROM StockOrder WHERE Status='Approved'  
AND purchase\_Date>=DATE '2005-12-31' AND  
purchase\_Date<=CURRENT\_DATE)  
GROUP BY Login\_ID  
HAVING Login\_ID=56426096;**

### **58. Add new company**

**INSERT INTO Company VALUES ('HDFC LIFE PVT LIMITED'  
, 'BANKING', 10000000000);**

### **59. Add Stock by admin**

**INSERT INTO Stock VALUES ('HDFCLIFE', 'NSE', 100, 200, 'HDFC  
LIFE PVT LIMITED');**

### **60. Remove IPO by admin**

**DELETE FROM Stock WHERE StockSymbol='HDFCLIFE' AND  
StockExchange='NSE';**

### **61. Add IPO by admin**

**INSERT INTO IPO VALUES ('HDFC LIFE PVT LIMITED','NSE','2024-02-02','2024-02-06','2024-02-13',10000,20000,20);**

### **62. Remove IPO by admin**

**DELETE FROM IPO WHERE Company\_Name='HDFC LIFE PVT LIMITED' AND StockExchange='NSE';**

### **63. Add Mutual Funds by admin**

**INSERT INTO Mutual\_Funds VALUES ('VSMPXZY','NSE','HDFC LIFE PVT LIMITED',10000,250000);**

### **64. Remove Mutual Funds by admin**

**DELETE FROM Mutual\_Funds WHERE MFName='VSMPXZY' AND StockExchange='NSE';**

### **65. Update status of stock order by admin**

**UPDATE StockOrder SET STATUS='Approved' WHERE StockSymbol='PKRQBEOYDJYXNLQ' AND StockExchange='BSE'**

**AND Login\_ID=65469628 AND purchase\_Date='2024-06-29' AND  
purchase\_Time='3:00 PM';**

**66. Update status of Mutual fund order by admin**

**UPDATE Mutual\_Funds\_Orders SET STATUS='Approved' WHERE  
MFSymbol='VYU9X' AND StockExchange='NSE' AND  
Login\_ID=65469628 AND purchase\_Date='2024-06-29' AND  
purchase\_Time='3:00 PM';**

**67. Update status of IPO bid by admin**

**UPDATE Bidded SET STATUS='Approved' WHERE  
Company\_Name='Topdrive' AND StockExchange='NSE' AND  
Login\_ID=32118456 AND Startdate='2005-04-29' AND  
Enddate='2005-06-18';**

**68. Update status of Transaction Status by admin**

**UPDATE Transaction SET STATUS='Approved' WHERE  
Transaction\_ID='1325185782';**