

INVESTMENT PORTFOLIO

Maximizing Returns Through Data-Driven Investment Management

INVESTMENTPORTFOLIO.COM

ASSETS

	Assettype
▶	Equity
	Bond
	Mutual Fund
	Real Estate
	Cryptocurrency
	Commodity
▶	Equity
	Bond

Select Assettype from Assets;

PORTFOLIOS

	Portfolioname
▶	Growth Portfolio
	Retirement Portfolio
	Income Portfolio
	High-Risk Portfolio
	Education Fund
	Real Estate Portfolio
	Healthcare Investments
	Diversified Assets

Select Portfolioname from Portfolios;



FIND TOTAL VALUE OF ASSETS IN EACH PORTFOLIO

```
SELECT P.PORTFOLIOID, SUM(T.QUANTITY * MP.MARKETPRICE)
AS TOTALPORTFOLIOVALUE
FROM TRANSACTIONS T
JOIN MARKETPRICES MP ON T.ASSETID = MP.ASSETID
JOIN PORTFOLIOS P ON T.PORTFOLIOID = P.PORTFOLIOID
WHERE T.TRANSACTIONTYPE = 'BUY'
GROUP BY P.PORTFOLIOID;
```

	portfoliod	totalportfoliovalue
▶	1	40602.50
	2	99450.00
	3	5000.00
	4	80500.00
	5	47500.00
	6	570000.00
	8	28000.00



TOTAL QUANTITY OF EACH ASSET HELD BY AN INVESTOR

```
SELECT I.INVESTORID, A.ASSETNAME, SUM(T.QUANTITY)
AS TOTALQUANTITY
FROM TRANSACTIONS T
JOIN ASSETS A ON T.ASSETID = A.ASSETID
JOIN PORTFOLIOS P ON T.PORTFOLIOID = P.PORTFOLIOID
JOIN INVESTORS I ON P.INVESTORID = I.INVESTORID
GROUP BY I.INVESTORID, A.ASSETNAME;
```

	investorid	assetname	totalquantity
▶	1	Apple Inc.	28
	2	US Treasury Bond	31
	1	US Treasury Bond	10
	3	Vanguard Index Fund	63
	4	Vanguard Index Fund	5
	4	Downtown Apartment	115
	5	Bitcoin	98
	1	Gold	20
	3	Tesla Inc.	180
	2	Corporate Bond ABC	45

TOTAL PROFIT/LOSS PER ASSET

```
SELECT A.ASSETNAME,
       SUM(CASE WHEN T.TRANSACTIONTYPE = 'BUY' THEN T.QUANTITY * MP.MARKETPRICE * -1
                WHEN T.TRANSACTIONTYPE = 'SELL' THEN T.QUANTITY * MP.MARKETPRICE END) AS TOTALPROFITLOSS
  FROM TRANSACTIONS T
 JOIN ASSETS A ON T.ASSETID = A.ASSETID
 JOIN MARKETPRICES MP ON T.ASSETID = MP.ASSETID
 GROUP BY A.ASSETNAME;
```

	assetname	totalprofitloss
▶	Apple Inc.	8482.00
	US Treasury Bond	-61950.00
	Vanguard Index Fund	75531.00
	Downtown Apartment	-80500.00
	Bitcoin	-1900.00
	Gold	-600000.00
	Tesla Inc.	-1000.00
	Corporate Bond ABC	-36000.00

NUMBER OF TRANSACTIONS PER INVESTOR

```
SELECT I.INVESTORID, I.NAME, COUNT(T.TRANSACTIONID) AS TOTALTRANSACTIONS  
FROM TRANSACTIONS T  
JOIN PORTFOLIOS P ON T.PORTFOLIOID = P.PORTFOLIOID  
JOIN INVESTORS I ON P.INVESTORID = I.INVESTORID  
GROUP BY I.INVESTORID, I.NAME;
```

	investorid	name	totaltransactions
▶	1	Alice Johnson	8
	2	Bob Smith	6
	3	Charlie Brown	7
	4	David Miller	5
	5	Emma Davis	4

ASSET HOLDINGS OF AN INVESTOR

```
SELECT I.INVESTORID, I.NAME, A.ASSETNAME, SUM(T.QUANTITY) AS TOTALQUANTITY
FROM TRANSACTIONS T
JOIN ASSETS A ON T.ASSETID = A.ASSETID
JOIN PORTFOLIOS P ON T.PORTFOLIOID = P.PORTFOLIOID
JOIN INVESTORS I ON P.INVESTORID = I.INVESTORID
WHERE I.INVESTORID = 1 -- REPLACE WITH INVESTOR ID FOR SPECIFIC INVESTOR
GROUP BY I.INVESTORID, I.NAME, A.ASSETNAME;
```

	investorid	name	assetname	totalquantity
▶	1	Alice Johnson	Apple Inc.	28
	1	Alice Johnson	Gold	20
	1	Alice Johnson	US Treasury Bond	10

ASSET PRICE TRENDS OVER TIME

```
SELECT A.ASSETNAME, MP.PRICEDATE, MP.MARKETPRICE  
FROM MARKETPRICES MP  
JOIN ASSETS A ON MP.ASSETID = A.ASSETID  
ORDER BY A.ASSETNAME, MP.PRICEDATE  
LIMIT 1000;
```

	assetname	PriceDate	MarketPrice
▶	Apple Inc.	2024-04-01	150.25
	Apple Inc.	2024-05-01	160.00
	Apple Inc.	2024-09-01	750.00
	Bitcoin	2024-06-20	450.00
	Bitcoin	2024-09-01	500.00
	Corporate Bond ABC	2024-08-10	800.00
	Downtown Apartment	2024-06-10	700.00
	Gold	2024-07-05	30000.00

PORFOLIO PERFORMANCE BY ASSET TYPE

```
SELECT P.PORTFOLIOID, A.ASSETTYPE, SUM(T.QUANTITY * MP.MARKETPRICE)
AS PORTFOLIOASSETVALUE
FROM TRANSACTIONS T
JOIN MARKETPRICES MP ON T.ASSETID = MP.ASSETID
JOIN ASSETS A ON T.ASSETID = A.ASSETID
JOIN PORTFOLIOS P ON T.PORTFOLIOID = P.PORTFOLIOID
GROUP BY P.PORTFOLIOID, A.ASSETTYPE;
```

	portfolioid	assettype	portfolioassetvalue
▶	1	Equity	29687.00
	2	Bond	99450.00
	1	Bond	29500.00
	3	Mutual Fund	69977.25
	4	Mutual Fund	5553.75
	4	Real Estate	80500.00
	5	Cryptocurrency	93100.00
	1	Commodity	30000.00
	6	Commodity	570000.00

THANK YOU!

Empowering Smart Decisions for a Secure Financial Future

VIVEK YADAV