

GOLD STOCK PRICES

1. -- CALCULATING REVENUE

```
SELECT SUM(Close_Price * Trading_Volume) AS Total_Revenue
FROM combined_gold_stocks;
```

RESULTS

Total_Revenue

1439412537260.40

```
2. SELECT SUM((Close_Price - Open_Price ) * Trading_Volume ) AS Total_profit
FROM combined_gold_stocks;
```

RESULTS

Total_profit

-580876459.30

3. -- AVERAGE CLOSING PRICE FOR EACH YEAR

```
SELECT YEAR(Date) AS YEAR, AVG(Close_Price) AS AVERAGE_CLOSE_PRICE
FROM combined_gold_stocks
GROUP BY YEAR(DATE)
ORDER BY YEAR DESC;
```

YEAR	AVERAGE_CLOSE_PRICE
2024	2203.142143
2023	1954.053600
2022	1808.683871
2021	1801.144246
2020	1779.716667
2019	1397.123016
2018	1272.021600
2017	1260.572112
2016	1251.715079
2015	1158.809524
2014	1258.231319

4. -- AVERAGE GOLD PRICE FLUCTUATIONS PER YEAR

```
SELECT YEAR(Date) AS YEAR, AVG(High_price - Low_Price) AS  
AVERAGE_PRICE_FLUCTUATION  
FROM combined_gold_stocks  
GROUP BY YEAR(Date)  
ORDER BY YEAR ASC;
```

YEAR	AVERAGE_PRICE_FLUCTUATION
2014	17.438736
2015	16.269048
2016	18.828968
2017	12.912351
2018	12.672800
2019	14.266270
2020	29.991667
2021	21.736508
2022	27.108468
2023	24.163600
2024	31.565000

5. -- TOTAL GOLD SOLD

```
SELECT SUM(Trading_Volume) AS TOTAL_GOLD_SOLD FROM combined_gold_stocks
```

TOTAL_GOLD_SOLD
944718451

-- VOLUME AND PRICE CHANGE

```
6. SELECT YEAR(Date) AS YEAR, Trading_Volume , (Close_Price - Open_Price) AS  
CHANGE_IN_PRICE  
FROM combined_gold_stocks  
WHERE Trading_Volume > 500000  
ORDER BY YEAR DESC;
```

	YEAR	Trading_Volume	CHANGE_IN_PRICE
	2020	619051	-0.70
	2020	654660	3.00
	2020	655245	2.40
	2020	787217	3.50
	2020	619051	-0.70
	2020	654660	3.00
	2020	655245	2.40
	2020	787217	3.50
	2019	618309	-4.70
	2019	618309	-4.70
	2016	783657	-3.30
	2016	783657	-3.30

7. SELECT
 HOUR(Date) AS DATE_HOUR,
 SUM(Trading_Volume) AS TOTAL_GOLD_SOLD
 FROM combined_gold_stocks
 GROUP BY HOUR(Date)
 ORDER BY DATE_HOUR;

8. WITH PriceReversals AS (
 SELECT
 Date,
 Close_Price,
 LAG(Close_Price, 1) OVER (ORDER BY Date) AS Previous_Close_Price,
 LEAD(Close_Price, 1) OVER (ORDER BY Date) AS Next_Close_Price
 FROM combined_gold_stocks
)
 SELECT
 Date,
 Close_Price,
 Previous_Close_Price,
 Next_Close_Price
 FROM PriceReversals
 WHERE Close_Price > Previous_Close_Price
 AND Close_Price > Next_Close_Price
 ORDER BY Date;

	Date	Close_Price	Previous_Close_Price	Next_Close_Price
	2014-01-24	1264.50	1262.50	1263.50
	2014-01-29	1262.20	1250.50	1242.50
	2014-02-03	1259.90	1239.80	1251.20
	2014-02-18	1324.40	1318.60	1320.40
	2014-02-25	1342.70	1338.00	1328.00
	2014-02-27	1331.80	1328.00	1321.60
	2014-03-03	1350.30	1321.60	1337.90
	2014-03-06	1351.80	1340.30	1338.20
	2014-03-14	1379.00	1372.40	1372.90
	2014-03-21	1336.00	1330.50	1311.10
	2014-03-25	1311.40	1311.10	1303.40
	2014-04-02	1290.80	1280.00	1284.60
	2014-04-04	1303.50	1284.60	1298.30
	2014-04-08	1309.10	1298.30	1305.90
	2014-04-10	1320.50	1305.90	1319.00
	2014-04-14	1327.50	1319.00	1300.30
	2014-04-16	1303.50	1300.30	1293.90
	2014-04-25	1300.80	1290.60	1299.00
	2014-05-05	1309.30	1302.90	1308.60
	2014-05-12	1295.80	1287.60	1294.80
	2014-05-14	1305.90	1294.80	1293.60
	2014-05-20	1294.60	1293.80	1288.10
	2014-05-22	1295.20	1288.10	1291.90
	2014-06-03	1244.50	1244.00	1244.30
	2014-06-05	1253.30	1244.30	1252.50
	2014-06-16	1275.30	1274.10	1272.00
	2014-06-25	1322.60	1321.30	1317.00
	2014-07-02	1330.90	1326.60	1320.60
	2021-10-06	1761.80	1760.90	1759.20
	2021-10-14	1797.90	1794.70	1768.30
	2021-10-20	1784.90	1770.50	1781.90
	2021-10-25	1806.80	1796.30	1793.40

Date	Close_Price	Previous_Close_Price	Next_Close_Price
2021-10-14	1797.90	1794.70	1768.30
2021-10-20	1784.90	1770.50	1781.90
2021-10-25	1806.80	1796.30	1793.40
2021-10-28	1802.60	1798.80	1783.90
2024-01-23	2025.80	2022.20	2016.00
2024-01-25	2017.80	2016.00	2017.30
2024-02-01	2071.10	2067.40	2053.70
2024-02-07	2051.70	2051.40	2047.90
2024-02-20	2039.80	2024.10	2034.30
2024-02-23	2049.40	2030.70	2038.90
2024-02-27	2044.10	2038.90	2042.70
2024-03-11	2188.60	2185.50	2166.10
2024-03-13	2180.80	2166.10	2167.50
2024-03-18	2164.30	2161.50	2159.70
2024-03-21	2184.70	2161.00	2160.00
2024-04-03	2315.00	2281.80	2308.50
2024-04-09	2362.40	2351.00	2348.40
2024-04-16	2407.80	2383.00	2388.40
2024-04-19	2413.80	2398.00	2346.40
2024-04-29	2357.70	2347.20	2302.90
2024-05-01	2311.00	2302.90	2309.60
2024-05-06	2331.20	2308.60	2324.20
2024-05-10	2375.00	2340.30	2343.00
2024-05-15	2394.90	2359.90	2385.50
2024-05-20	2438.50	2417.40	2425.90
2024-05-28	2356.50	2334.50	2341.20
2024-05-30	2366.50	2341.20	2345.80
2024-06-03	2369.30	2345.80	2347.40
2024-06-06	2390.90	2375.50	2325.00
2024-06-10	2327.00	2325.00	2326.60
2024-06-12	2354.80	2326.60	2318.00
2024-06-14	2349.10	2318.00	2329.00
2024-06-20	2369.00	2346.90	2331.20

9. -- MONTHLY AVERAGE CLOSING PRICE

SELECT

YEAR(Date) AS Year,

MONTH(Date) AS Month,

AVG(Close_Price) AS AVERAGE_CLOSING_PRICE

FROM combined_gold_stocks

GROUP BY YEAR(Date), MONTH(Date)

ORDER BY Year, Month;

	Year	Month	AVERAGE_CLOSING_PRICE
	2014	1	1253.012500
	2014	2	1300.721053
	2014	3	1336.528571
	2014	4	1298.747619
	2014	5	1287.809524
	2014	6	1282.566667
	2014	7	1310.602439
	2014	8	1296.680952
	2014	9	1236.476190
	2014	10	1223.569565
	2014	11	1176.584211
	2014	12	1200.409091
	2015	1	1253.205000
	2015	2	1225.484211
	2015	3	1177.854545
	2015	4	1199.828571
	2015	5	1198.200000
	2015	6	1181.159091
	2015	7	1128.336364
	2015	8	1118.819048
	2015	9	1123.866667
	2015	10	1159.390909
	2015	11	1083.885000
	2015	12	1068.586364
	2016	1	1097.289474
	2016	2	1201.605000
	2016	3	1245.854545

```

10. SELECT
    WEEK(Date, 1) AS WEEK_NUMBER,
    YEAR(Date) AS Year,
    COUNT(DISTINCT Close_Price) AS Total_Close_Prices
FROM combined_gold_stocks
GROUP BY WEEK(Date, 1), YEAR(Date)
ORDER BY Year, WEEK(Date, 1);

```

WEEK_NUMBER	Year	Total_Close_Prices
4	2014	3
5	2014	5
6	2014	5
7	2014	5
8	2014	4
9	2014	5
10	2014	5
11	2014	5
12	2014	5
13	2014	5
14	2014	5
15	2014	5
16	2014	4
17	2014	5
18	2014	5
19	2014	5
20	2014	5
21	2014	5
22	2014	4
23	2014	5
24	2014	5

WEEK_NUMBER	Year	Total_Close_Prices
25	2014	5
26	2014	5
27	2014	4
28	2014	5
29	2014	5
30	2014	5
31	2014	5
32	2014	5
33	2014	5
34	2014	5
35	2014	5
36	2014	4
37	2014	5
38	2014	5
39	2014	5
40	2014	5
41	2014	5
42	2014	5
43	2014	5
44	2014	5
45	2014	4
46	2014	5

WEEK_NUMBER	Year	Total_Close_Prices
46	2014	5
47	2014	5
48	2014	4
49	2014	5
50	2014	5
51	2014	5
52	2014	4
53	2014	3
1	2015	1
2	2015	5
3	2015	5
4	2015	4
5	2015	5
6	2015	5
7	2015	5
8	2015	4
9	2015	5
10	2015	5
11	2015	5
12	2015	5
13	2015	5
14	2015	4

WEEK_NUMBER	Year	Total_Close_Prices
7	2024	5
8	2024	4
9	2024	5
10	2024	5
11	2024	5
12	2024	5
13	2024	4
14	2024	5
15	2024	5
16	2024	5
17	2024	5
18	2024	5
19	2024	5
20	2024	5
21	2024	5
22	2024	4
23	2024	5
24	2024	5
25	2024	4
26	2024	5
27	2024	3

WEEK_NUMBER	Year	Total_Close_Prices
37	2023	5
38	2023	5
39	2023	5
40	2023	5
41	2023	5
42	2023	5
43	2023	5
44	2023	5
45	2023	5
46	2023	5
47	2023	4
48	2023	5
49	2023	5
50	2023	5
51	2023	5
52	2023	4
1	2024	4
2	2024	5
3	2024	4
4	2024	5
5	2024	5
6	2024	5

WEEK_NUMBER	Year	Total_Close_Prices
15	2023	5
16	2023	5
17	2023	5
18	2023	5
19	2023	5
20	2023	5
21	2023	5
22	2023	4
23	2023	5
24	2023	5
25	2023	4
26	2023	5
27	2023	4
28	2023	5
29	2023	5
30	2023	5
31	2023	5
32	2023	5
33	2023	5
34	2023	5
35	2023	5
36	2023	4

11. -- Calculate Yearly Percentage Change

WITH yearly_prices AS (

SELECT

YEAR(Date) AS Year,

MIN(Close_Price) AS Starting_Price,

MAX(Close_Price) AS Ending_Price

FROM combined_gold_stocks

GROUP BY YEAR(Date)

),

percentage_change AS (

SELECT

Year,

Starting_Price,

Ending_Price,

((Ending_Price - Starting_Price) / Starting_Price) * 100 AS Percentage_Change

FROM yearly_prices

)

SELECT *

FROM percentage_change

ORDER BY Year;

Year	Starting_Pri...	Ending_Price	Percentage_Change
2014	1142.60	1379.00	20.689655
2015	1049.60	1300.70	23.923399
2016	1073.60	1372.60	27.850224
2017	1162.00	1351.20	16.282272
2018	1182.30	1368.00	15.706673
2019	1272.00	1560.40	22.672956
2020	1477.90	2069.40	40.023006
2021	1678.00	1954.40	16.471990
2022	1633.40	2043.30	25.094894
2023	1817.10	2093.10	15.189037
2024	2004.30	2438.50	21.663424

12. -- 7-day rolling average of closing prices

```
SELECT YEAR(Date), Close_Price,  
       AVG(Close_Price) OVER (ORDER BY Date ROWS BETWEEN 6 PRECEDING AND  
                              CURRENT ROW) AS ROLLING_7_DAY_AVERAGE  
FROM combined_gold_stocks  
ORDER BY YEAR(Date) DESC;
```

YEAR(Date)	Close_Price	ROLLING_7_DAY_AVERAGE
2024	2073.40	2081.457143
2024	2073.40	2078.642857
2024	2042.80	2071.457143
2024	2042.80	2065.642857
2024	2050.00	2060.857143
2024	2050.00	2057.742857
2024	2049.80	2054.600000
2024	2049.80	2051.228571
2024	2033.50	2045.528571
2024	2033.50	2044.200000
2024	2033.00	2042.800000
2024	2033.00	2040.371429
2024	2027.80	2037.200000
2024	2027.80	2034.057143
2024	2019.20	2029.685714
2024	2019.20	2027.642857
2024	2051.60	2030.228571
2024	2051.60	2032.885714
2024	2030.20	2032.485714
2024	2030.20	2032.828571

13. SELECT YEAR(Date), (Close_Price - Open_Price) AS DAILY_GAIN
FROM combined_gold_stocks
ORDER BY DAILY_GAIN DESC
LIMIT 10;

YEAR(Date)	DAILY_GAIN
2020	73.50
2020	73.50
2016	68.10
2016	68.10
2020	64.30
2020	64.30
2023	59.80
2023	59.80
2014	58.70
2014	58.70

14. SELECT YEAR(Date), QUARTER(Date) AS QUARTER, Close_Price
FROM combined_gold_stocks

```
WHERE YEAR(Date) > 2023 AND YEAR(Date) = 2024  
ORDER BY YEAR(Date) DESC;
```

YEAR(Date)	QUARTER	Close_Price	YEAR(Date)	QUARTER	Close_Price
2024	1	2029.30	2024	2	2334.50
2024	1	2021.60	2024	2	2337.20
2024	1	2006.50	2024	2	2392.90
2024	1	2030.20	2024	2	2425.90
2024	1	2051.60	2024	2	2438.50
2024	1	2019.20	2024	2	2417.40
2024	1	2027.80	2024	2	2385.50
2024	1	2033.00	2024	2	2394.90
2024	1	2033.50	2024	2	2359.90
2024	1	2049.80	2024	2	2343.00
2024	1	2050.00	2024	2	2375.00
2024	1	2042.80	2024	2	2340.30
2024	1	2073.40	2024	2	2322.30
2024	3	2369.40	2024	2	2324.20
2024	3	2333.40	2024	2	2331.20
2024	3	2338.90	2024	2	2308.60
2024	2	2339.60	2024	2	2309.60
2024	2	2336.60	2024	2	2311.00
2024	2	2313.20	2024	2	2302.90
2024	2	2330.80	2024	2	2357.70
2024	2	2344.40	2024	2	2347.20
2024	2	2331.20	2024	2	2342.50
2024	2	2369.00	2024	2	2338.40
2024	2	2346.90	2024	2	2342.10
2024	2	2329.00	2024	2	2346.40
2024	2	2349.10	2024	2	2413.80
2024	2	2318.00	2024	2	2398.00
2024	2	2354.80	2024	2	2388.40
2024	2	2326.60	2024	2	2407.80
2024	2	2327.00	2024	2	2383.00
2024	2	2325.00	2024	2	2374.10
2024	2	2390.90	2024	2	2372.70
2024	2	2375.50	2024	2	2348.40
2024	2	2347.40	2024	2	2362.40
2024	2	2369.30	2024	2	2351.00
2024	2	2345.80	2024	2	2345.40
2024	2	2366.50	2024	2	2308.50

YEAR(Date)	QUARTER	Close_Price	YEAR(Date)	QUARTER	Close_Price
2024	2	2315.00	2024	1	2049.40
2024	2	2281.80	2024	1	2030.70
2024	2	2257.10	2024	1	2034.30
2024	1	2238.40	2024	1	2039.80
2024	1	2212.70	2024	1	2024.10
2024	1	2177.20	2024	1	2014.90
2024	1	2176.40	2024	1	2004.30
2024	1	2160.00	2024	1	2007.20
2024	1	2184.70	2024	1	2033.00
2024	1	2161.00	2024	1	2038.70
2024	1	2159.70	2024	1	2047.90
2024	1	2164.30	2024	1	2051.70
2024	1	2161.50	2024	1	2051.40
2024	1	2167.50	2024	1	2042.90
2024	1	2180.80	2024	1	2053.70
2024	1	2166.10	2024	1	2071.10
2024	1	2188.60	2024	1	2067.40
2024	1	2185.50	2024	1	2050.90
2024	1	2165.20	2024	1	2025.40
2024	1	2158.20	2024	1	2017.30
2024	1	2141.90	2024	1	2017.80
2024	1	2126.30	2024	1	2016.00
2024	1	2095.70	2024	1	2025.80
2024	1	2054.70	2024	1	2022.20
2024	1	2042.70	2024	1	2029.30
2024	1	2044.10	2024	1	2021.60
2024	1	2038.90	2024	1	2006.50
2024	1	2049.40	2024	1	2030.20
2024	1	2030.70	2024	1	2051.60
2024	1	2034.30	2024	1	2019.20
2024	1	2039.80	2024	1	2027.80
2024	1	2024.10	2024	1	2033.00
2024	1	2014.90	2024	1	2033.50
2024	1	2004.30	2024	1	2049.80
2024	1	2007.20	2024	1	2050.00
2024	1	2033.00	2024	1	2042.80
2024	1	2038.70	2024	1	2073.40

15. Summary statistics for gold prices (open, close, high, low)

SELECT

MIN(Close_Price) AS MINIMUM_CLOSE_PRICE,

```
MAX(Close_Price) AS MAX_CLOSE_PRICE,  
AVG(Close_Price) AS AVERAGE_CLOSE_PRICE,  
STDDEV(Close_Price) AS STDEV_CLOSE_PRICE  
FROM combined_gold_stocks;
```

MINIMUM_CLOSE_PRICE	MAX_CLOSE_PRICE	AVERAGE_CLOSE_PRICE	STDEV_CLOSE_PRICE
1049.60	2438.50	1519.951493	317.3544677433957