

Day 2 Week 1

```
In [ ]: import pandas as pd
```

```
In [ ]: df = pd.read_csv('crypto_market_data.csv')  
df
```

```
In [ ]: closing_prices = df[['close_btc', 'close_eth', 'close_bnb']]  
closing_prices
```

```
In [ ]: first_4_days = df.iloc[1:5]  
first_4_days
```

Filter high volume days for btc

```
In [ ]: btc_volume_treshold = df['volume_btc'].quantile(0.75)  
high_volume_btc = df[df['volume_btc'] > btc_volume_treshold]  
high_volume_btc
```

. Select `volume_btc` and `volume_eth` columns, print the first 5 rows.

```
In [ ]: volume_btc_eth = df[["volume_btc", "volume_eth"]]  
first_5_rows = volume_btc_eth.head().reset_index(drop=True)  
volume_str = f"BTC: {volume_btc_eth['volume_btc']}\nETH: {volume_btc_eth['volume_eth']}"  
print(volume_str)
```

Use `loc` to select rows where `close_btc` > its median (handle `NaN` with `notna()`).

```
In [ ]: filtered_df = df.loc[(df['close_btc'].notna()) & (df['close_btc'] > median_close)]  
filtered_df
```

Filter days where `close_btc` increased from the previous day (use `diff()`).

```
In [ ]: filtered_days = df[(df['close_btc'].diff() > 0) & (df['close_btc'].notna()) ]  
filtered_days
```

Mini-Project: Create a DataFrame with days where `volume_btc` > 90th percentile, save to `high_volume_btc.csv`.

```
In [ ]: volume_btc_treshold = df['volume_btc'].quantile(0.9)  
high_btc_volume = df.loc[df['volume_btc'] > volume_btc_treshold]  
df.to_csv("high_btc_volume.csv")  
print('Saved to csv file')  
high_btc_volume
```

```
In [ ]:
```