

Ribbon Data Integration v2

Currency

Each vault has an asset variable, which is the collateral used in the vault. All premiums and withdrawal fees are denominated in the asset.

Subgraph

V2 Subgraph: ribbon-finance/ribbon-v2

V1 Subgraph: <https://thegraph.com/hosted-service/subgraph/kenchangh/ribbon-finance>

Solana Subgraph: <https://ribbon-solana.hasura.app/v1/graphql>

TVL

For every vault, we need to call the `totalBalance` function to get the total assets deposited into the vault.

```
sum = 0

for vault in vaults:
    sum += toUSD(vault.totalBalance())
```

GMV

For every vault, we need to call the `lockedAmount` function to get the total assets deposited into the vault.

```
sum = 0

for vault in vaults:
    sum += toUSD(vault.lockedAmount())
```

Total Revenue

Using the [subgraph](#), we can query this information.

```
{
  vaults(first: 5) {
    id
    totalPremiumEarned
    underlyingAsset
    underlyingSymbol
  }
}
```

Protocol Revenue

Using the [subgraph](#), we can query this information. Right now protocol revenues are a management fee, charged on the AUM and a performance fee, which is charged on premiums earned.

```
{
  vaults(first: 5) {
    id
    totalFeeCollected
    underlyingAsset
    underlyingSymbol
  }
}
```

Total Notional Volume

The notional volume is denominated in the vault's deposit currency. Hence, to get a USD value, multiply the underlying by their respective USD prices.

To get the total notional volume across the vaults, you would have to do the same query across multiple subgraphs.

```
{
  vaultShortPositions {
    depositAmount

    vault {
      underlyingSymbol
    }
  }
}
```

```
    underlyingDecimals  
  }  
}  
}
```