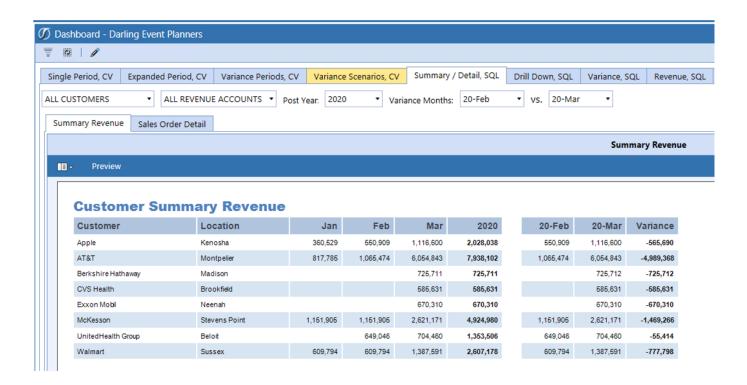# OneStream SQL Reporting with Single-Click Drill-Down Analysis

OneStream can provide access to enterprise data by blending SQL reports with Cube Views. Content is organized into Self-Serve Reporting Dashboards with user-friendly drop-down data filters.

In this article, we demonstrate SQL reports organized into nested Dashboard Tabs. We use this structure to both Segregate and Integrate Summary / Detail Crosstab Reports. The Integration supports single-click Drill-Down and Drill-Back data analysis.

## Illustration I – Summary SQL Report

The default Summary Revenue report returns a single summary Revenue row for default filter values: All Customers, Periods in the Year 2020 and Variance Periods 20-Feb vs. 20-Mar.
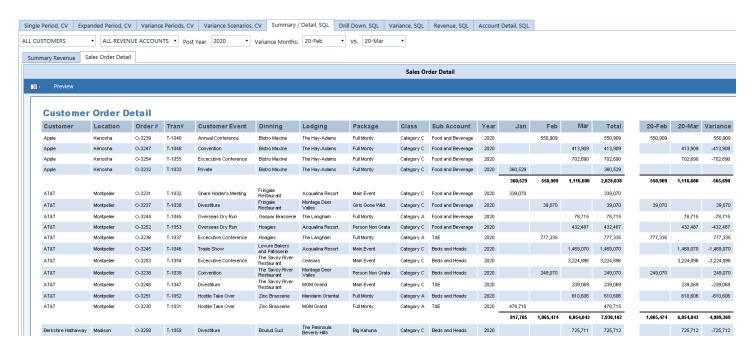


Our Summary report is SQL, but a UD Dimension Cube View would work much the same. Unlike the typical multi-step Cube View drill-down and navigate to source, users would use a single-click interface.

# Illustration II – Single Click Drill-Down from SQL Summary Tab to Detail

The Sales Order Detail report and Summary Revenue Report share data filters. As a result, selecting the Sales Order Detail tab essentially performs a single-click data drill-down.

Illustrated below, the Order Detail has many rows for All Customers, for Periods in the Year 2020 and Variance Periods 20-Feb vs. 20-Mar.

Single Period, CV | Expanded Period, CV | Variance Periods, CV | Variance Scenarios, CV | **Summary / Detail, SQL** | Drill Down, SQL | Variance, SQL | Revenue, SQL | Account Detail, SQL

ALL CUSTOMERS ▾ | ALL REVENUE ACCOUNTS ▾ | Post Year: 2020 ▾ | Variance Months: 20-Feb ▾ vs. 20-Mar ▾

Summary Revenue | **Sales Order Detail**

**Sales Order Detail**

▣▾ Preview

### Customer Order Detail

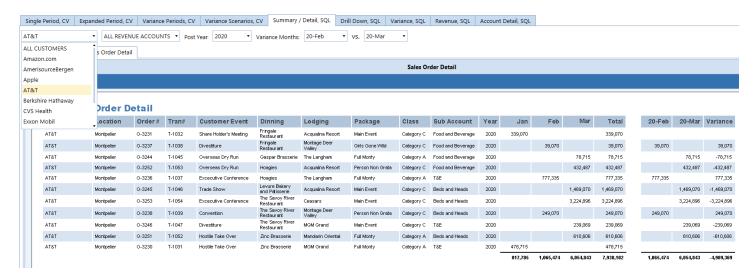| Customer | Location | Order # | Tran# | Customer Event | Dinning | Lodging | Package | Class | Sub Account | Year | Jan | Feb | Mar | Total | 20-Feb | 20-Mar | Variance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apple | Kenosha | O-3239 | T-1040 | Annual Conference | Bistro Maxine | The Hay-Adams | Full Monty | Category C | Food and Beverage | 2020 | | 550,909 | | 550,909 | 550,909 | | 550,909 |
| Apple | Kenosha | O-3247 | T-1048 | Convention | Bistro Maxine | The Hay-Adams | Full Monty | Category C | Food and Beverage | 2020 | | | 413,909 | 413,909 | | 413,909 | -413,909 |
| Apple | Kenosha | O-3254 | T-1055 | Excecutive Conference | Bistro Maxine | The Hay-Adams | Full Monty | Category C | Food and Beverage | 2020 | | | 702,690 | 702,690 | | 702,690 | -702,690 |
| Apple | Kenosha | O-3232 | T-1033 | Private | Bistro Maxine | The Hay-Adams | Full Monty | Category C | Food and Beverage | 2020 | 360,529 | | | 360,529 | | | |
| | | | | | | | | | | | **360,529** | **550,909** | **1,116,600** | **2,028,038** | **550,909** | **1,116,600** | **-565,690** |
| AT&T | Montpelier | O-3231 | T-1032 | Share Holder's Meeting | Fringale Restaurant | Acquaina Resort | Main Event | Category C | Food and Beverage | 2020 | 339,070 | | | 339,070 | | | |
| AT&T | Montpelier | O-3237 | T-1038 | Divestiture | Fringale Restaurant | Montage Deer Valley | Girls Gone Wild | Category C | Food and Beverage | 2020 | | 39,070 | | 39,070 | 39,070 | | 39,070 |
| AT&T | Montpelier | O-3244 | T-1045 | Overseas Dry Run | Gaspar Brasserie | The Langham | Full Monty | Category A | Food and Beverage | 2020 | | | 78,715 | 78,715 | | 78,715 | -78,715 |
| AT&T | Montpelier | O-3252 | T-1053 | Overseas Dry Run | Hoagies | Acquaina Resort | Person Non Grata | Category C | Food and Beverage | 2020 | | | 432,487 | 432,487 | | 432,487 | -432,487 |
| AT&T | Montpelier | O-3236 | T-1037 | Excecutive Conference | Hoagies | The Langham | Full Monty | Category A | T&E | 2020 | | 777,335 | | 777,335 | 777,335 | | 777,335 |
| AT&T | Montpelier | O-3245 | T-1046 | Trade Show | Levure Bakery and Patisserie | Acquaina Resort | Main Event | Category C | Beds and Heads | 2020 | | | 1,469,070 | 1,469,070 | | 1,469,070 | -1,469,070 |
| AT&T | Montpelier | O-3253 | T-1054 | Excecutive Conference | The Savoy River Restaurant | Ceasars | Main Event | Category C | Beds and Heads | 2020 | | | 3,224,896 | 3,224,896 | | 3,224,896 | -3,224,896 |
| AT&T | Montpelier | O-3238 | T-1039 | Convention | The Savoy River Restaurant | Montage Deer Valley | Person Non Grata | Category C | Beds and Heads | 2020 | | 249,070 | | 249,070 | 249,070 | | 249,070 |
| AT&T | Montpelier | O-3246 | T-1047 | Divestiture | The Savoy River Restaurant | MGM Grand | Main Event | Category C | T&E | 2020 | | | 239,069 | 239,069 | | 239,069 | -239,069 |
| AT&T | Montpelier | O-3251 | T-1052 | Hostile Take Over | Zinc Brasserie | Mandarin Oriental | Full Monty | Category A | Beds and Heads | 2020 | | | 610,606 | 610,606 | | 610,606 | -610,606 |
| AT&T | Montpelier | O-3230 | T-1031 | Hostile Take Over | Zinc Brasserie | MGM Grand | Full Monty | Category A | T&E | 2020 | 478,715 | | | 478,715 | | | |
| | | | | | | | | | | | **817,785** | **1,065,474** | **6,054,843** | **7,938,102** | **1,065,474** | **6,054,843** | **-4,989,369** |
| Berkshire Hathaway | Madison | O-3258 | T-1059 | Divestiture | Boulud Sud | The Peninsula Beverly Hills | Big Kahuna | Category C | Beds and Heads | 2020 | | | 725,711 | 725,712 | | 725,712 | -725,712 |

Referring to the previous illustrations, we have one row of data in the Summary Report for customers, including a month over month Variance. We can tie this Variance to the Customer Subtotal row in the Sales Order Detail Report. The Detail report provides further insight into the Variance by providing additional rows (Sales Order Transactions) and columns (Attribute / Demographics).
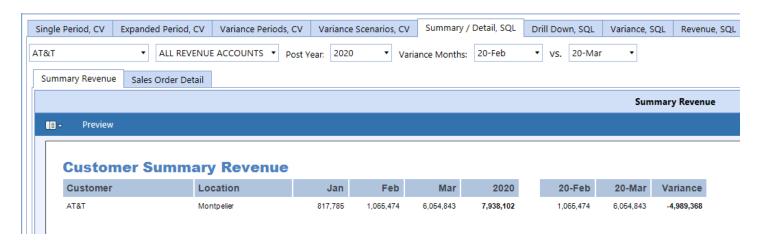
Since it is not practical to store Order Numbers in cubes, this Insight is not possible without SQL reporting. This is the business case for blending SQL reports with Cube Views in OneStream Dashboards.

## Illustration III – Single Click Drill-Back from Detail Tab to Summary

The Detail Report and Summary report share data filters. As a result, selecting the Summary tab executes a single-click data drill-back. All Summary records that match the Detail report's data filter are retrieved. To support this demonstration, we changed the Detail report from All Customers to AT&T.



| Customer | Location | Order # | Tran# | Customer Event | Dinning | Lodging | Package | Class | Sub Account | Year | Jan | Feb | Mar | Total | 20-Feb | 20-Mar | Variance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT&T | Montpelier | O-3231 | T-1032 | Share Holder's Meeting | Fringale Restaurant | Acqualina Resort | Main Event | Category C | Food and Beverage | 2020 | 339,070 | | | 339,070 | | | |
| AT&T | Montpelier | O-3237 | T-1038 | Divestiture | Fringale Restaurant | Montage Deer Valley | Girls Gone Wild | Category C | Food and Beverage | 2020 | | 39,070 | | 39,070 | 39,070 | | 39,070 |
| AT&T | Montpelier | O-3244 | T-1045 | Overseas Dry Run | Gaspar Brasserie | The Langham | Full Monty | Category A | Food and Beverage | 2020 | | | 78,715 | 78,715 | | 78,715 | -78,715 |
| AT&T | Montpelier | O-3252 | T-1053 | Overseas Dry Run | Hoagies | Acqualina Resort | Person Non Grata | Category C | Food and Beverage | 2020 | | | 432,487 | 432,487 | | 432,487 | -432,487 |
| AT&T | Montpelier | O-3236 | T-1037 | Executive Conference | Hoagies | The Langham | Full Monty | Category A | T&E | 2020 | | 777,335 | | 777,335 | 777,335 | | 777,335 |
| AT&T | Montpelier | O-3245 | T-1046 | Trade Show | Levure Bakery and Patisserie | Acqualina Resort | Main Event | Category C | Beds and Heads | 2020 | | | 1,469,070 | 1,469,070 | | 1,469,070 | -1,469,070 |
| AT&T | Montpelier | O-3253 | T-1054 | Executive Conference | The Savoy River Restaurant | Ceasars | Main Event | Category C | Beds and Heads | 2020 | | | 3,224,896 | 3,224,896 | | 3,224,896 | -3,224,896 |
| AT&T | Montpelier | O-3238 | T-1039 | Convention | The Savoy River Restaurant | Montage Deer Valley | Person Non Grata | Category C | Beds and Heads | 2020 | | 249,070 | | 249,070 | 249,070 | | 249,070 |
| AT&T | Montpelier | O-3246 | T-1047 | Divestiture | The Savoy River Restaurant | MGM Grand | Main Event | Category C | T&E | 2020 | | | 239,069 | 239,069 | | 239,069 | -239,069 |
| AT&T | Montpelier | O-3251 | T-1052 | Hostile Take Over | Zinc Brasserie | Mandarin Oriental | Full Monty | Category A | Beds and Heads | 2020 | | | 610,606 | 610,606 | | 610,606 | -610,606 |
| AT&T | Montpelier | O-3230 | T-1031 | Hostile Take Over | Zinc Brasserie | MGM Grand | Full Monty | Category A | T&E | 2020 | 478,715 | | | 478,715 | | | |
| | | | | | | | | | | | 817,785 | 1,065,474 | 6,054,843 | 7,938,102 | 1,065,474 | 6,054,843 | -4,989,369 |

Subsequently, we select the Summary Revenue tab. This results in a Drill-Back to a single AT&T summary record. The Variance, -4,989,369 ties to the AT&T Detail Report subtotal.



### Customer Summary Revenue

| Customer | Location | Jan | Feb | Mar | 2020 | 20-Feb | 20-Mar | Variance |
|---|---|---|---|---|---|---|---|---|
| AT&T | Montpelier | 817,785 | 1,065,474 | 6,054,843 | 7,938,102 | 1,065,474 | 6,054,843 | -4,989,368 |

## Appendix I – Cube View Self-Serve Dashboards
https://www.linkedin.com/pulse/build-onestream-self-serve-reports-embedded-fewer-morash-cpa-cga/

## Appendix II – BI Reporting Self-Serve Dashboards
https://www.linkedin.com/pulse/change-conversation-onestream-studio-bi-report-books-robin/

Thank you for your interest. Need help? robin.morash@epmcpa.com