Orchestrated Domain-Driven Data Mesh Analytics Dashboard

By Chirayu Mahar | Orchestrated Domain-Driven Data Mesh Architecture



Main file: data/main.xlsx (541,909 rows)

Zone file: data/taxi.xlsx (265 rows)



▼ View Main Dataset Sample

First 10 rows of main dataset:

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country
0	536365	85123A	WHITE HANGING HEART T-LIGHT HOLDER	6	2010-12-01 08:26:00	2.55	17850	United Kingdom
1	536365	71053	WHITE METAL LANTERN	6	2010-12-01 08:26:00	3.39	17850	United Kingdom
2	536365	84406B	CREAM CUPID HEARTS COAT HANGER	8	2010-12-01 08:26:00	2.75	17850	United Kingdom
3	536365	84029G	KNITTED UNION FLAG HOT WATER BOTTLE	6	2010-12-01 08:26:00	3.39	17850	United Kingdom
4	536365	84029E	RED WOOLLY HOTTIE WHITE HEART.	6	2010-12-01 08:26:00	3.39	17850	United Kingdom
5	536365	22752	SET 7 BABUSHKA NESTING BOXES	2	2010-12-01 08:26:00	7.65	17850	United Kingdom
6	536365	21730	GLASS STAR FROSTED T-LIGHT HOLDER	6	2010-12-01 08:26:00	4.25	17850	United Kingdom
7	536366	22633	HAND WARMER UNION JACK	6	2010-12-01 08:28:00	1.85	17850	United Kingdom
8	536366	22632	HAND WARMER RED POLKA DOT	6	2010-12-01 08:28:00	1.85	17850	United Kingdom
9	536367	84879	ASSORTED COLOUR BIRD ORNAMENT	32	2010-12-01 08:34:00	1.69	13047	United Kingdom

> View Zone Lookup Data

localhost:8505



Total Trips Columns Missing Values Zones

541,909

10/8/25, 7:51 PM

8

136,534

265



Trips by Borough

▲ Could not automatically detect required columns for borough analysis.

Looking for:

- Pickup location column (containing 'PULocation' or 'pickup')
- Borough column in zone lookup
- LocationID column in zone lookup

Available columns:

Main dataset:

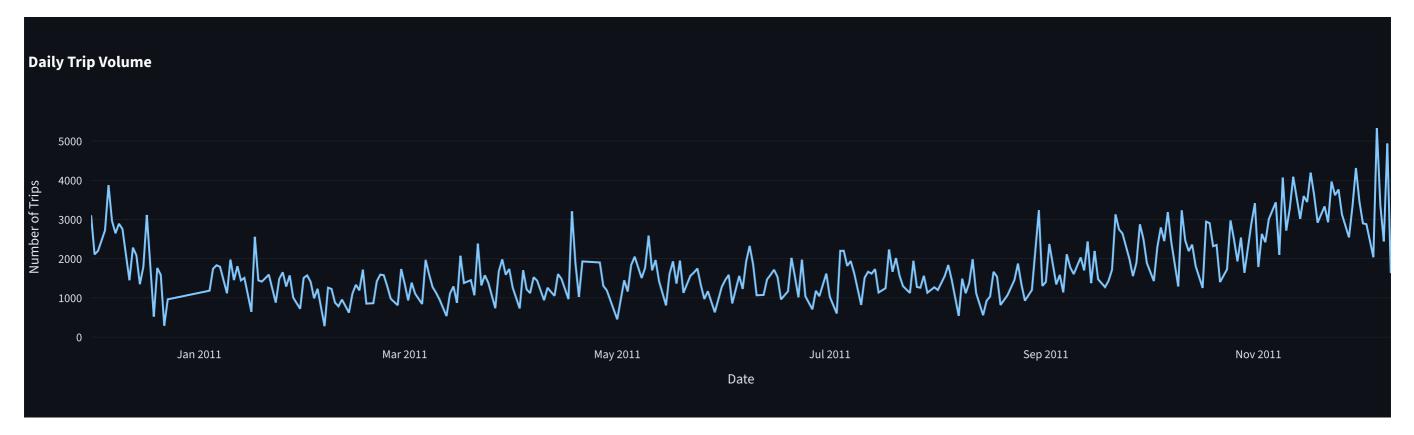
```
0: "InvoiceNo"
1: "StockCode"
2: "Description"
3: "Quantity"
4: "InvoiceDate"
5: "UnitPrice"
6: "CustomerID"
7: "Country"
```

Zone lookup:

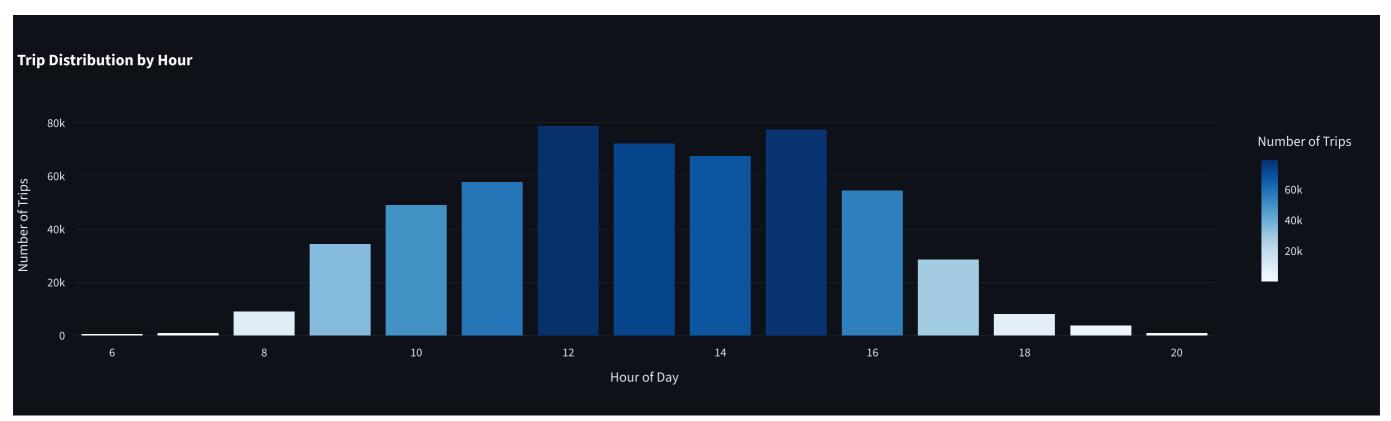
```
0: "LocationID"
1: "Borough"
2: "Zone"
3: "service_zone"
```

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Trips Over Time



Trips by Hour of Day



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Interactive Data Explorer

Select columns to view:

InvoiceNo × StockCode × Description × Quantity × InvoiceDate ×

Number of rows

50

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate
0	536365	85123A	WHITE HANGING HEART T-LIGHT HOLDER	6	2010-12-01 08:26:00
1	536365	71053	WHITE METAL LANTERN	6	2010-12-01 08:26:00
2	536365	84406B	CREAM CUPID HEARTS COAT HANGER	8	2010-12-01 08:26:00
3	536365	84029G	KNITTED UNION FLAG HOT WATER BOTTLE	6	2010-12-01 08:26:00
4	536365	84029E	RED WOOLLY HOTTIE WHITE HEART.	6	2010-12-01 08:26:00
5	536365	22752	SET 7 BABUSHKA NESTING BOXES	2	2010-12-01 08:26:00
6	536365	21730	GLASS STAR FROSTED T-LIGHT HOLDER	6	2010-12-01 08:26:00
7	536366	22633	HAND WARMER UNION JACK	6	2010-12-01 08:28:00
8	536366	22632	HAND WARMER RED POLKA DOT	6	2010-12-01 08:28:00
9	536367	84879	ASSORTED COLOUR BIRD ORNAMENT	32	2010-12-01 08:34:00

Export Data

Download Full Dataset as CSV

Download Zone Lookup as CSV

冷 Orchestrated Domain-Driven Data Mesh Architecture | Built with Streamlit & Plotly

Supports both Excel (.xlsx) and CSV files

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