

## MidTerm - Group 19

### Final Project

**Program:** MS Data Architecture and Management

**Course:** DAMG 7370 - Designing Advanced Data Architectures for Business Intelligence

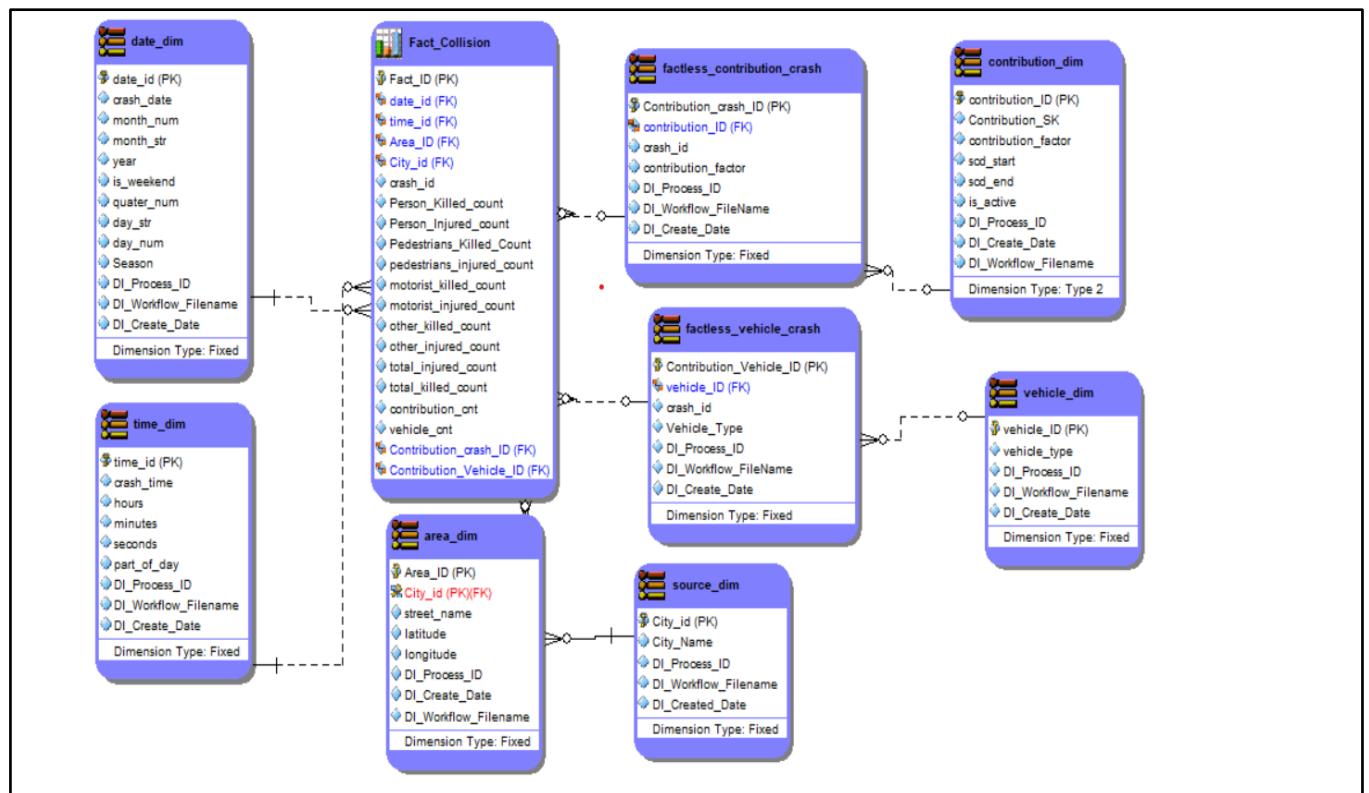
#### AuthorDetails:

**Name:** Anuja Surana

**NUID:** 00264439

**Email Address:** [surana.a@northeastern.edu](mailto:surana.a@northeastern.edu)

#### **Dimensional Model:**



# Mapping Document/Sheet:

	A	B	C	D	E	F
1	Common Attribute Description	Chicago				
2	Unique-ID	CRASH_RECORD_ID	crash_id, case_id			
3	Crash - Date and Time	CRASH_DATE	crash_date	COLLISION_ID		
4	Location	LATITUDE, LONGITUDE, LOCATION	latitude, longitude, point	CRASH DATE, CRASH TIME		
5	Total Injuries	INJURIES_TOTAL	tot_injry_cnt	LATITUDE, LONGITUDE,		
6	Total Deaths	INJURIES_FATAL	death_cnt	LOCATION		
7	Street Name Info	STREET_NAME	street_name	NUMBER OF PERSONS INJURED		
8	Contributing-Factors	PRIM_CONTRIBUTORY_CAUSE, SEC_CONTRIBUTORY_CAUSE	contrib_factr_p1_id, contrib_factr_p2_id	NUMBER OF PERSONS KILLED		
9	Construction-Zone	WORK_ZONE_I	road_constr_zone_fl	ON STREET NAME, CROSS		
10	Weather Conditions	WEATHER_CONDITION, LIGHTING_CONDITION, ROADWAY_SURFACE_COND, ROAD_DEFECT	-	STREET NAME, OFF STREET		
11	Admin Details	DATE_POLICE_NOTIFIED	-	NAME		
12	Traffic-Info	TRAFFIC_CONTROL_DEVICE, DEVICE_CONDITION, TRAFFICWAY_TYPE	crash_speed_limit	CONTRIBUTING FACTOR VEHICLE		
13	Other-Information	STREET_DIRECTION, BEAT_OF_OCCURRENCE	onsys_fl, private_dr_fl	1 to CONTRIBUTING FACTOR		
14				VEHICLE 5		
15				-		
16				-		
17				-		

## Final Mapping Sheet:

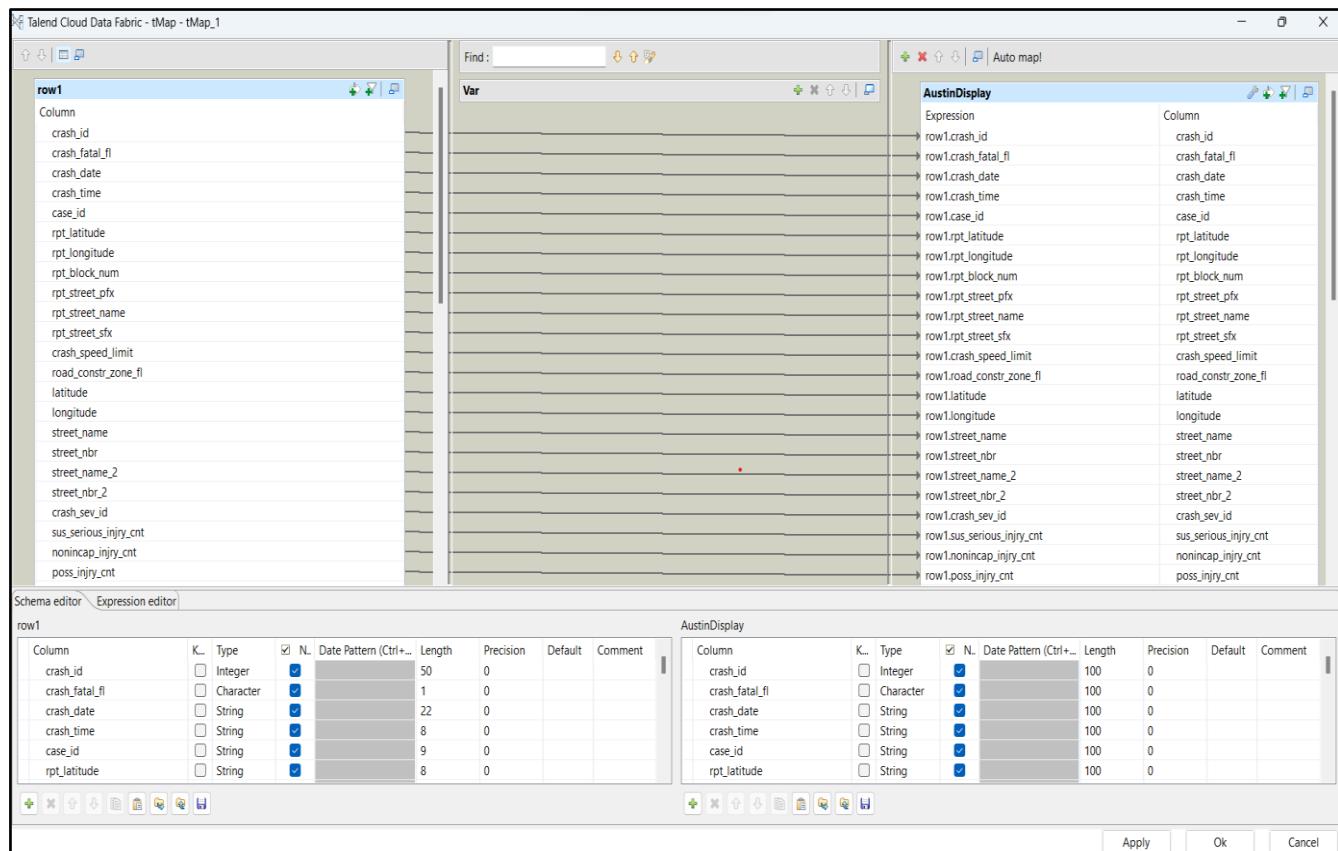
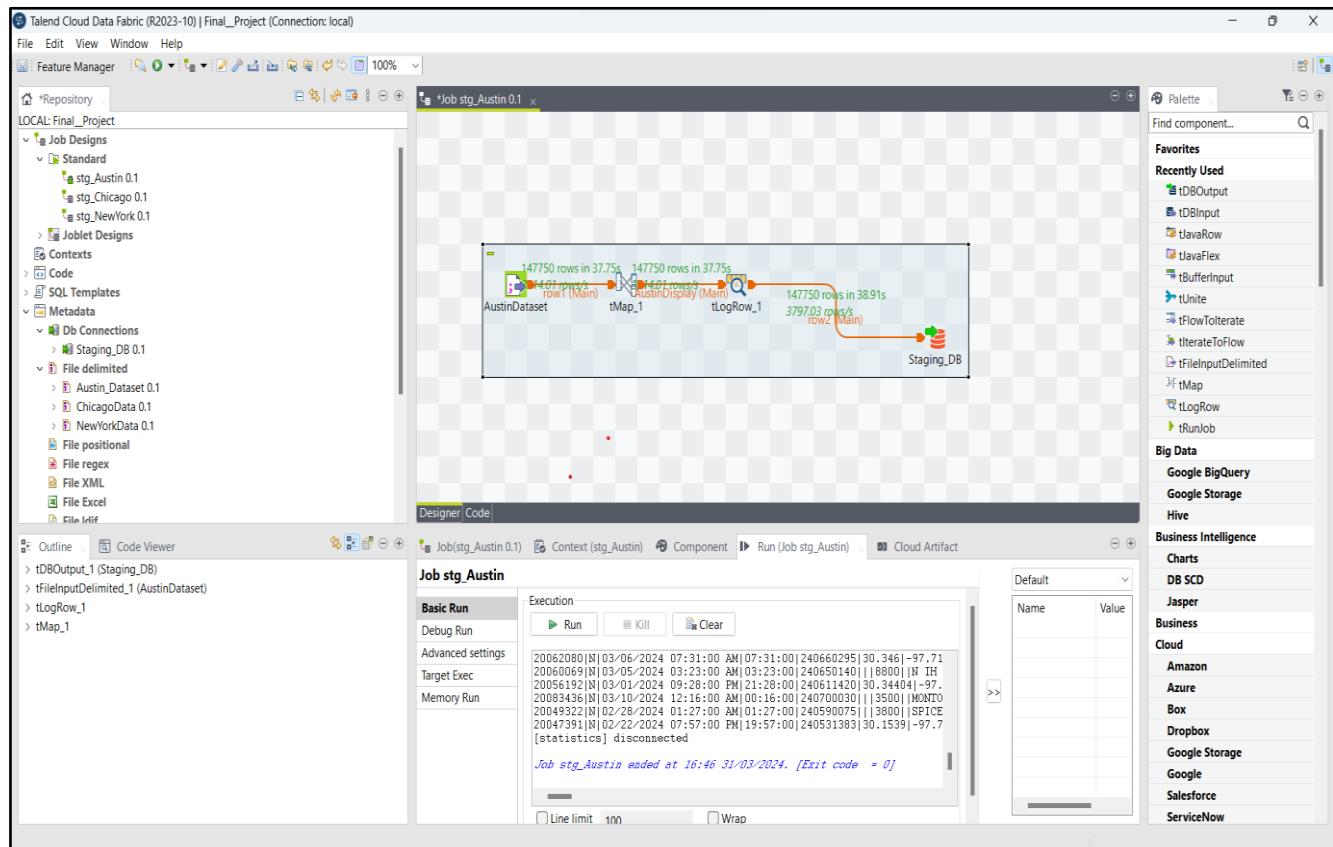
<https://docs.google.com/spreadsheets/d/12R6idm4cFz-ejbFvIjmg7Ev5yz9K7DXFa7mxccYgQCU/edit?usp=sharing>

## What and Why:

- Accident Counts by City:** calculate the total number of accidents for each city, overview of city having higher accident rates.
- Top Accident Areas:** Identify the top three areas in each city with the highest number of accidents, helps in pinpointing accident hotspots within each city.
- Injury Analysis:** determine how many accidents resulted in injuries, presenting the data both overall and broken down by city. This metric is crucial for understanding the severity of accidents.
- Pedestrian Involvement:** calculate how often pedestrians are involved in accidents, again both overall and by city.
- Seasonality of Accidents:** Analyse when most accidents occur.
- Motorist Casualties:** count how many motorists are injured or killed, both overall and by city.
- Time-Based Analysis of Accidents:** Examine the frequency of accidents by time of day, day of the week, and distinguishing between weekdays and weekends. This helps in understanding peak accident times and days.
- Fatality Analysis:** Compare fatality rates among pedestrians and other road users to assess who is at greater risk.
- Common Accident Factors:** Identify the most frequent causes of accidents to target these issues with specific safety measures.

# Talend:

## Austin Stage:



SQLQuery2.sql - SHUBH.Final\_Project (group\_19 (68))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

SQLQuery2.sql - SH...ect (group\_19 (68))\* X SQLQuery1.sql - SH...ect (group\_19 (59))

```
select top 10 * from Austin_Stg
```

```
SELECT COUNT(*) AS TotalRows FROM Austin_Stg;
```

Results Messages

crash_id	crash_fatal_fn	crash_date	crash_time	case_id	rpt_latitude	rpt_longitude	rpt_block_num	rpt_street_pfx	rpt_street_name	rpt_street_sfx	crash_speed_limit	road_constr_zone_fn	latitude	long
1	1751082	N	01/13/2020 08:42:00 AM	08:42:00	200130453		50	N	50 N IH 35 NB	Hwy	60	N	30.29635038	-97.
2	17552833	N	02/05/2020 09:44:00 AM	09:44:00	200360572		10900		FM 2222 RD		45	Y	30.3954801	-97.
3	17498705	N	12/27/2019 06:25:00 PM	18:25:00	193611295		200	E	45TH	ST	-1	N	30.30817477	-97.
4	17475319	N	12/20/2019 06:57:00 PM	18:57:00	193541498		12800	N	N IH 35 SWRD SB		45	N	30.41137684211428	-97.
5	17511034	N	01/30/2020 08:40:00 AM	08:40:00	200130448		12800		PEARCE	LN	40	N	30.16941479	-97.
6	17552573	N	02/05/2020 05:33:00 PM	17:33:00	200361230		4300		AIRPORT	BLVD	35	N	30.297459802481	-97.
7	17514310	N	01/14/2020 07:43:00 PM	19:43:00	200141444		7900		BURNET	RD	35	N	30.35696226844143	-97.
8	17543301	N	01/31/2020 11:57:00 AM	11:57:00	200310927		9000		RESEARCH	BLVD	65	N	30.37380352	-97.
9	17541279	N	01/29/2020 04:52:00 PM	16:52:00	200291273		2000	S	CONGRESS	AVE	-1	N	30.24355681	-97.
10	17524221	N	01/17/2020 09:01:00 PM	21:01:00	200171712		11320	S	MANCHACA	RD	40	N	30.15526273	-97.

Query executed successfully.

SHUBH (16.0 RTM) | group\_19 (68) | Final\_Project | 00:00:00 | 10 rows

Ready

SQLQuery2.sql - SHUBH.Final\_Project (group\_19 (68))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

SQLQuery2.sql - SH...ect (group\_19 (68))\* X SQLQuery1.sql - SH...ect (group\_19 (59))

```
select top 10 * from Austin_Stg
```

```
SELECT COUNT(*) AS TotalRows FROM Austin_Stg;
```

Results Messages

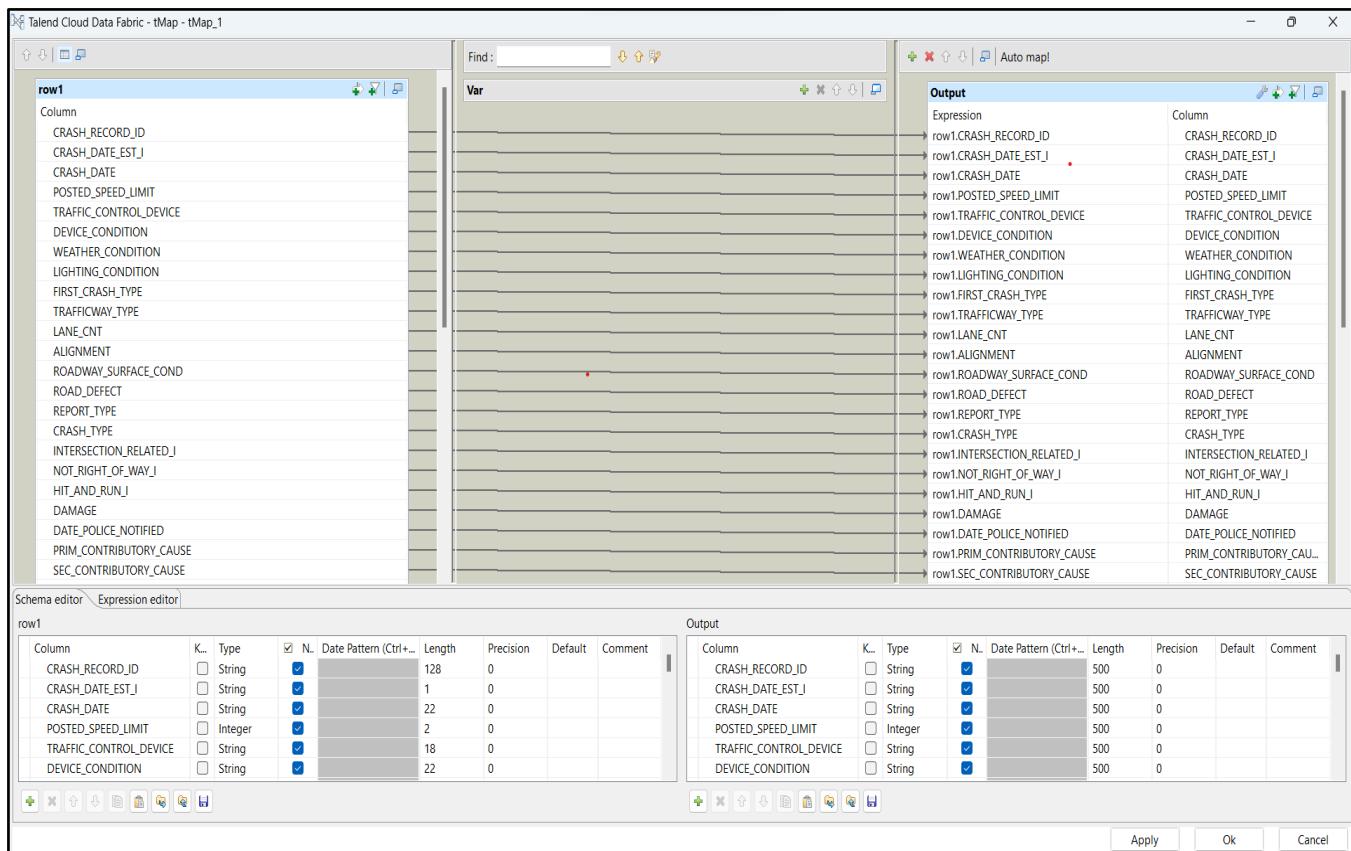
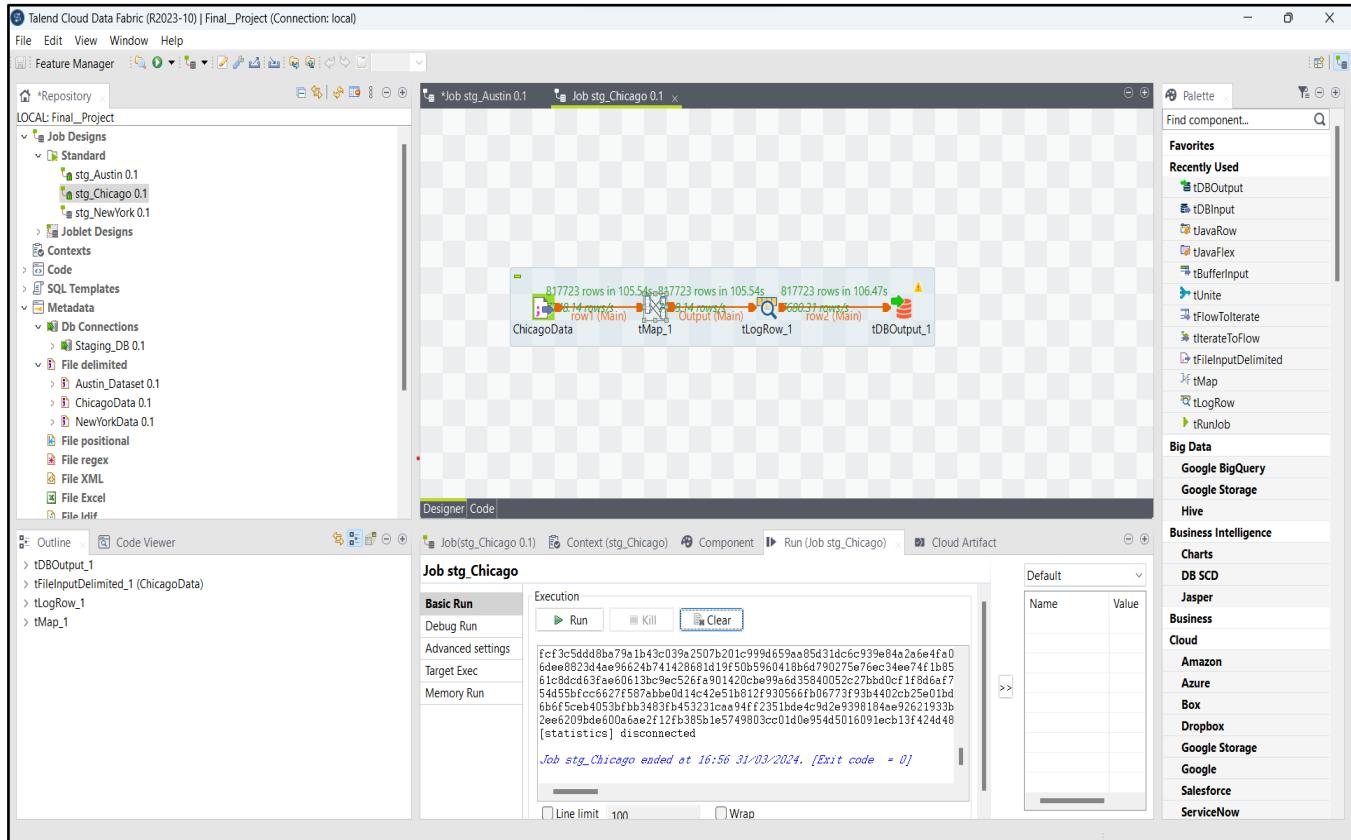
TotalRows
147750

Query executed successfully.

SHUBH (16.0 RTM) | group\_19 (68) | Final\_Project | 00:01:29 | 1 rows

Ready

# Chicago Stage:



SQLQuery2.sql - SHUBH.Final\_Project (group\_19 (68)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

SHUBH (SQL Server 16.0.1000.6 - group\_19)

- Databases
  - System Databases
  - Database Snapshots
  - DB\_Assignemnt\_3
  - DB\_K\_C
  - Final\_Project
  - Database Diagrams
  - Tables
    - System Tables
    - FileTables
    - External Tables
    - Graph Tables
    - dbo.Austin\_Stg
    - Dropped Ledger Tables
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
  - MidTerm\_Group\_19
  - Parse\_CSV
  - Security
  - Server Objects
  - Replication
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent (Agent XPs disabled)
  - XEvent Profiler

SQLQuery1.sql - SH...ect (group\_19 (68))

```
select top 10 * from Chicago_Stg
```

```
SELECT COUNT(*) AS TotalRows FROM Austin_Stg;
```

Results Messages

CRASH_RECORD_ID	CRASH_DATE_EST_J	CRASH_DATE	POSTED_SPEED_LIMIT	TRAFFIC_CONTROL_DEVICE	DEVICE_CONDITION	WEATHER_CONDITION	LIGHTING_CONDITION
1	6c165909e9e5cd285a650e70d9f9b574ed594c12888479093..	09/18/2023 12:50:00	15	OTHER	FUNCTIONING PROPERLY	CLEAR	DAYLIGHT
2	5654a596a05b712x5b1ad9963c3402d37e798d410658..	07/29/2023 02:45:00	30	TRAFFIC SIGNAL	FUNCTIONING PROPERLY	CLEAR	DAYLIGHT
3	61fb8c1eb522a64698460e2134df3d15962e811693e9cafd3d..	08/18/2023 05:58:00	30	NO CONTROLS	NO CONTROLS	CLEAR	DAYLIGHT
4	004cd1403039e163aa3a959a2d734167daa3572cb33785..	11/26/2019 08:38:00	25	NO CONTROLS	NO CONTROLS	CLEAR	DAYLIGHT
5	a1d50ea09087745365a4cb0b6cc0329a120d97536cb202..	08/19/2023 10:45:00	20	NO CONTROLS	NO CONTROLS	CLEAR	DAYLIGHT
6	b236c77459e32b7b469a6e21743b7457e1bd8b689b14c..	07/29/2023 01:00:00	30	TRAFFIC SIGNAL	FUNCTIONING PROPERLY	CLEAR	DAYLIGHT
7	35156ce97cabb22747495e92e9bb1fc57e0e60dc3ef1ff1..	02/06/2023 05:30:00	30	NO CONTROLS	NO CONTROLS	CLEAR	DARKNESS, LIGHTED R
8	0e208d2334404b1b9af5d4bb07676a750db73c397b5c398..	08/13/2023 01:30:00	35	NO CONTROLS	FUNCTIONING PROPERLY	CLEAR	DAYLIGHT
9	143868aee6219d032b76162b28964c430e289893aae84d..	08/13/2023 12:11:00	30	TRAFFIC SIGNAL	FUNCTIONING PROPERLY	CLEAR	DARKNESS, LIGHTED R
10	359b95872d546bb63576e55b1e0b480dd93c2b935ab571d..	01/31/2022 07:45:00	25	NO CONTROLS	NO CONTROLS	CLEAR	DARKNESS

Query executed successfully.

SHUBH (16.0 RTM) | group\_19 (68) | Final\_Project | 00:00:00 | 10 rows

Ready

SQLQuery2.sql - SHUBH.Final\_Project (group\_19 (68)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick

Object Explorer

SHUBH (SQL Server 16.0.1000.6 - group\_19)

- Databases
  - System Databases
  - Database Snapshots
  - DB\_Assignemnt\_3
  - DB\_K\_C
  - Final\_Project
  - Database Diagrams
  - Tables
    - System Tables
    - FileTables
    - External Tables
    - Graph Tables
    - dbo.Austin\_Stg
    - Dropped Ledger Tables
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
  - MidTerm\_Group\_19
  - Parse\_CSV
  - Security
  - Server Objects
  - Replication
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent (Agent XPs disabled)
  - XEvent Profiler

SQLQuery1.sql - SH...ect (group\_19 (68))

```
select top 10 * from Chicago_Stg
```

```
SELECT COUNT(*) AS TotalRows FROM Chicago_Stg;
```

Results Messages

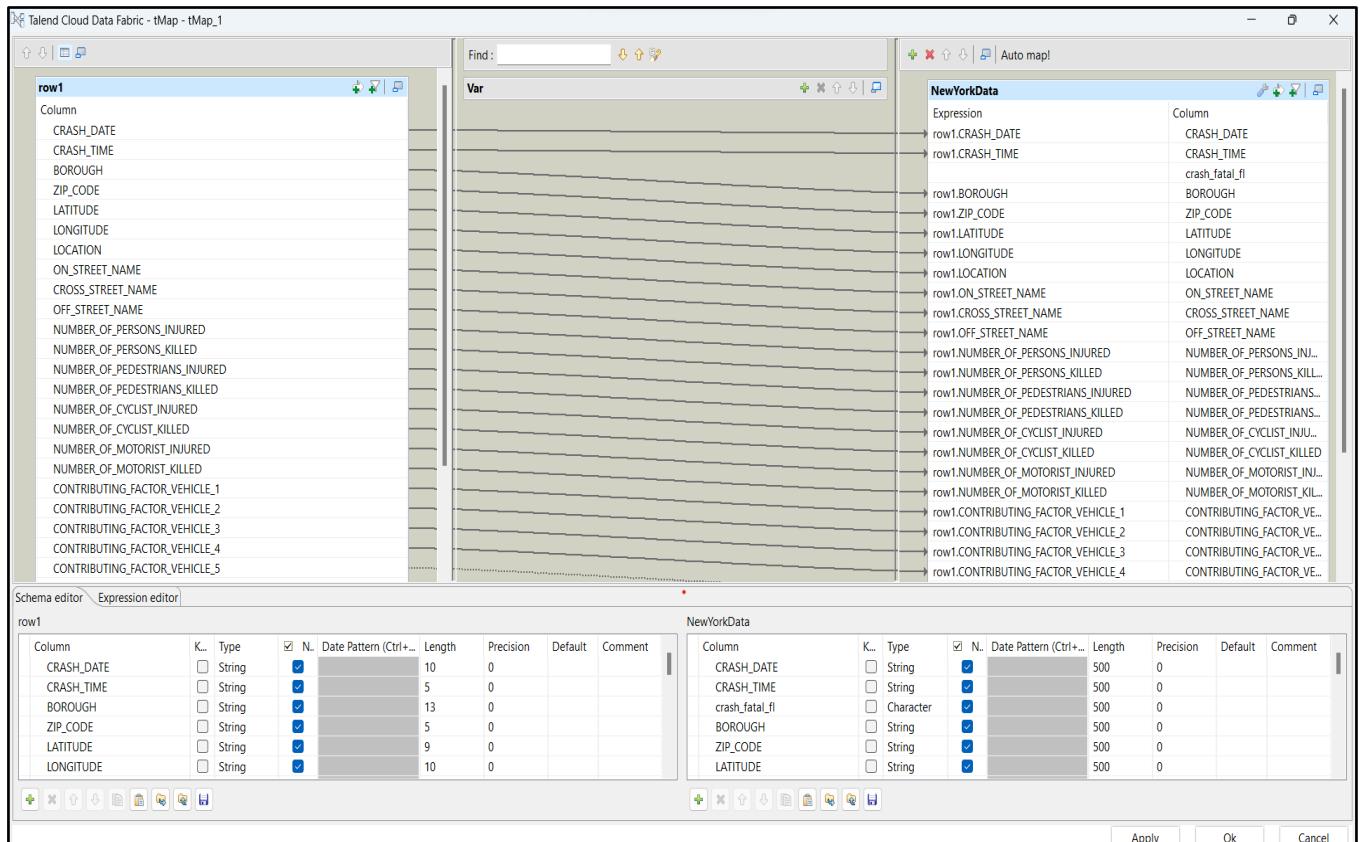
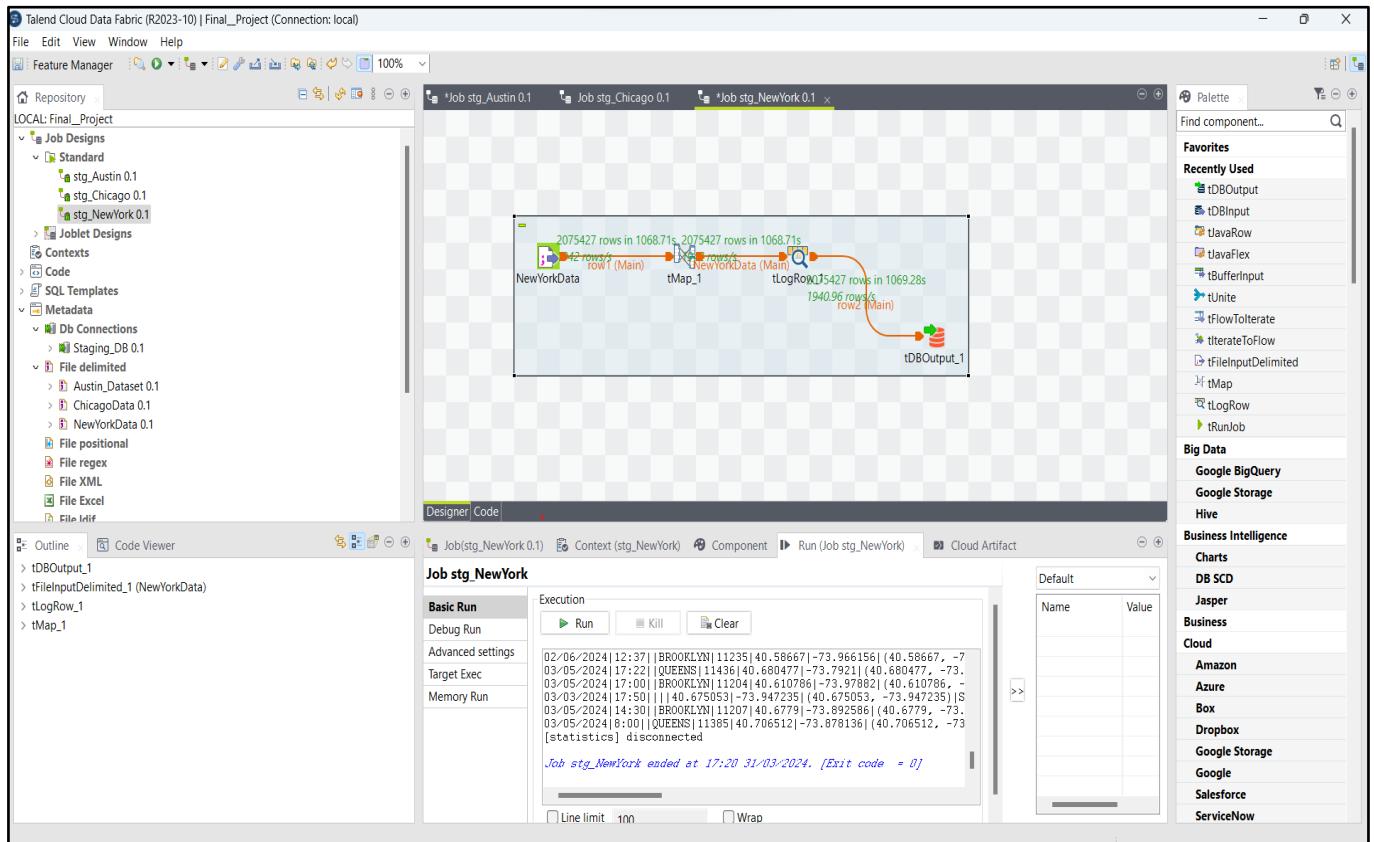
TotalRows
1
817723

Query executed successfully.

SHUBH (16.0 RTM) | gro

Ready

# New York Stage:



SQLQuery2.sql - SHUBH.Final\_Project (group\_19 (68)\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Final\_Project Execute ✓ config

Object Explorer

SHUBH (SQL Server 16.0.1000.6 - group\_19)

- Databases
  - System Databases
  - Database Snapshots
  - DB\_Assignemnt\_3
  - DB\_K\_C
  - Final\_Project
  - Database Diagrams
  - Tables
    - System Tables
    - FileTables
    - External Tables
    - Graph Tables
    - dbo.Austin\_Stg
    - Dropped Ledger Tables
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
- MidTerm\_Group\_19
- Parse\_CSV
- Parse\_CSVC
- Security
- Server Objects
- Replication
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

SQLQuery2.sql - SH...ect (group\_19 (68)\*

```
select top 10 * from New_York_Stg
SELECT COUNT(*) AS TotalRows FROM New_York_Stg;
```

Results Messages

	CRASH_DATE	CRASH_TIME	crash_fatal_B	BOROUGH	ZIP_CODE	LATITUDE	LONGITUDE	LOCATION	ON_STREET_NAME	CROSS_STREET_NAME	OFF_STREET_NAME	NUMBER_OF_PERSON
1	01/19/2022	15:40	NULL	MANHATTAN	10011	40.74014	-73.99935	(40.74014,-73.99935)		210	WEST 16 STREET	1
2	10/11/2021	7:19	NULL	QUEENS	11691	40.6081071	-73.7541334	(40.6081071,-73.7541334)	BEACH CHANNEL DRIVE	NAMEOKA AVENUE		3
3	10/11/2021	22:49	NULL	BRONX	10459	40.8301369	-73.8918767	(40.8301369,-73.8918767)	SOUTHERN BOULEVARD	FREEMAN STREET		1
4	10/11/2021	17:00	NULL	BRONX	10459	40.8300576	-73.8864096	(40.8300576,-73.8864096)	WEST FARMS ROAD	BOONE AVENUE		0
5	10/07/2021	9:45	NULL	QUEENS	11691	40.6073763	-73.754178	(40.6073763,-73.754178)		13-72	BEACH CHANNEL DRIVE	0
6	10/07/2021	14:40	NULL	QUEENS	11691	40.6066286	-73.7482855	(40.6066286,-73.7482855)		12-23	CHANNING ROAD	0
7	01/20/2022	14:40	NULL	QUEENS	11434	40.65616	-73.76736	(40.65616,-73.76736)	ROCKAWAY BOULEVARD	BREWER BOULEVARD		1
8	10/09/2021	18:44	NULL	BROOKLYN	11212	40.6579423	-73.9077366	(40.6579423,-73.9077366)	ROCKAWAY AVENUE	LOTT AVENUE		2
9	10/08/2021	15:14	NULL	BROOKLYN	11233	40.6716074	-73.9169427	(40.6716074,-73.9169427)	SARATOGA AVENUE	PARK PLACE		1
10	10/01/2021	17:32	NULL	BROOKLYN	11233	40.6742806	-73.9166906	(40.6742806,-73.9166906)	SARATOGA AVENUE	BERGEN STREET		0

Query executed successfully.

SHUBH (16.0 RTM) | group\_19 (68) | Final\_Project | 00:00:00 | 10 rows

Ready

SQLQuery2.sql - SHUBH.Final\_Project (group\_19 (68)\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Final\_Project Execute ✓ config

Object Explorer

SHUBH (SQL Server 16.0.1000.6 - group\_19)

- Databases
  - System Databases
  - Database Snapshots
  - DB\_Assignemnt\_3
  - DB\_K\_C
  - Final\_Project
  - Database Diagrams
  - Tables
    - System Tables
    - FileTables
    - External Tables
    - Graph Tables
    - dbo.Austin\_Stg
    - Dropped Ledger Tables
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
- MidTerm\_Group\_19
- Parse\_CSV
- Parse\_CSVC
- Security
- Server Objects
- Replication
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

SQLQuery2.sql - SH...ect (group\_19 (68)\*

```
select top 10 * from New_York_Stg
SELECT COUNT(*) AS TotalRows FROM New_York_Stg;
```

Results Messages

TotalRows
1

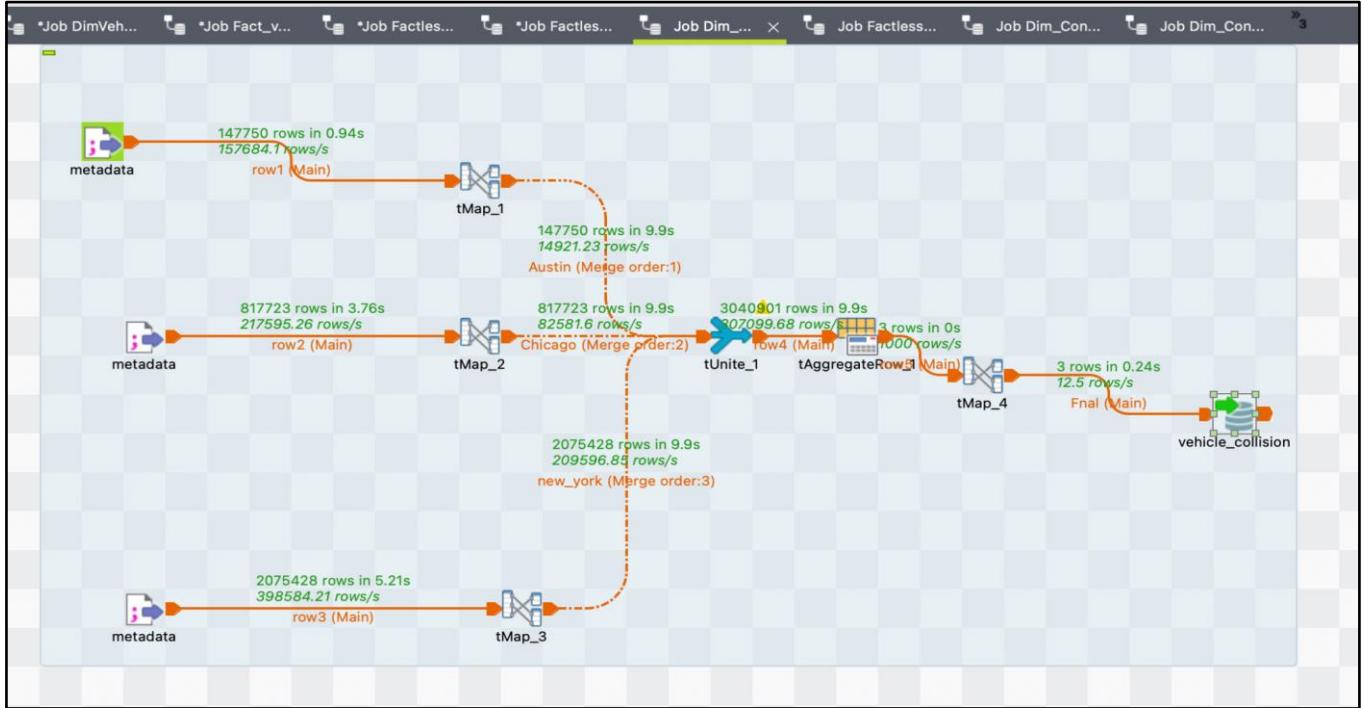
Query executed successfully.

SHUBH (16.0 RTM) | group\_19 (68) | Final\_Project | 00:00:02 | 1 rows

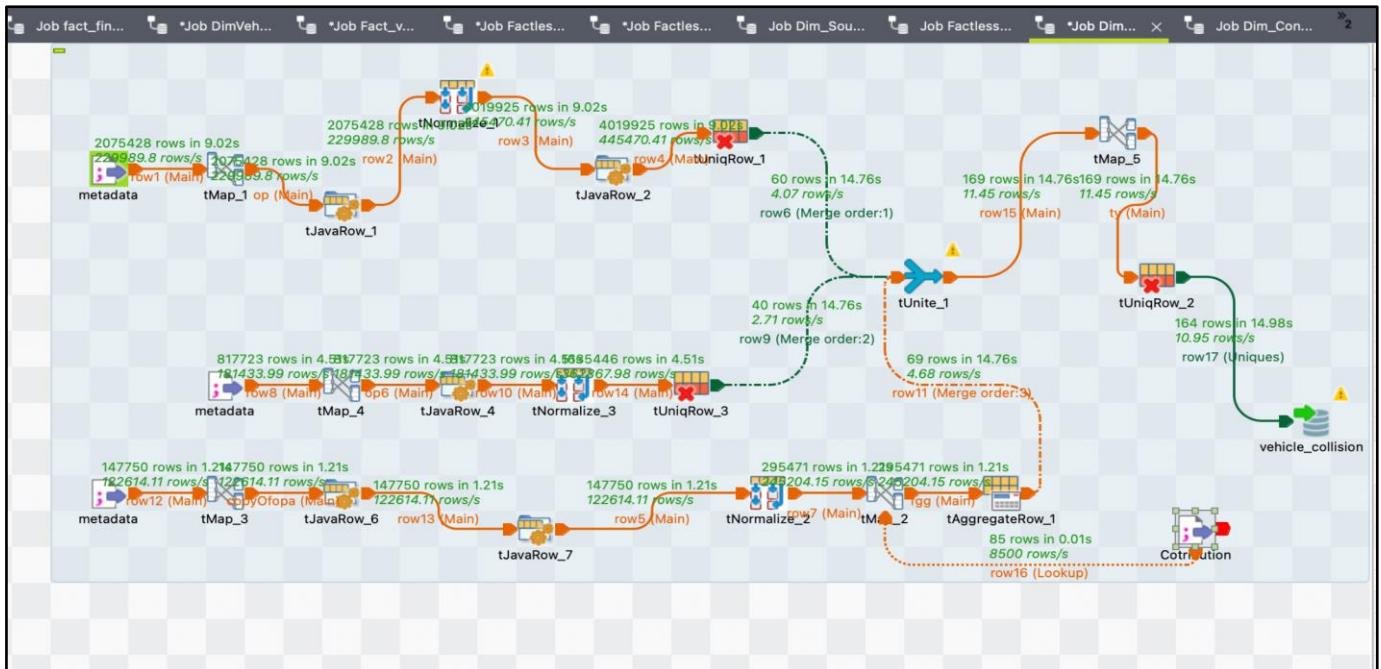
Ready

# Dimensions:

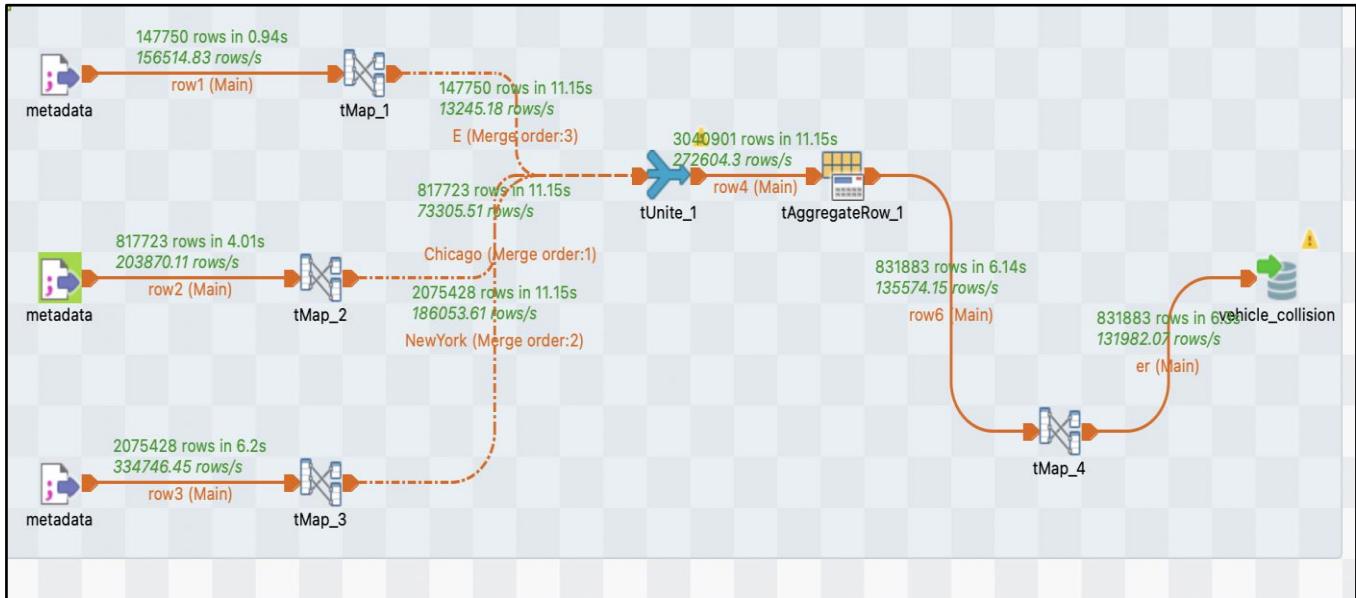
## Source Dimension:



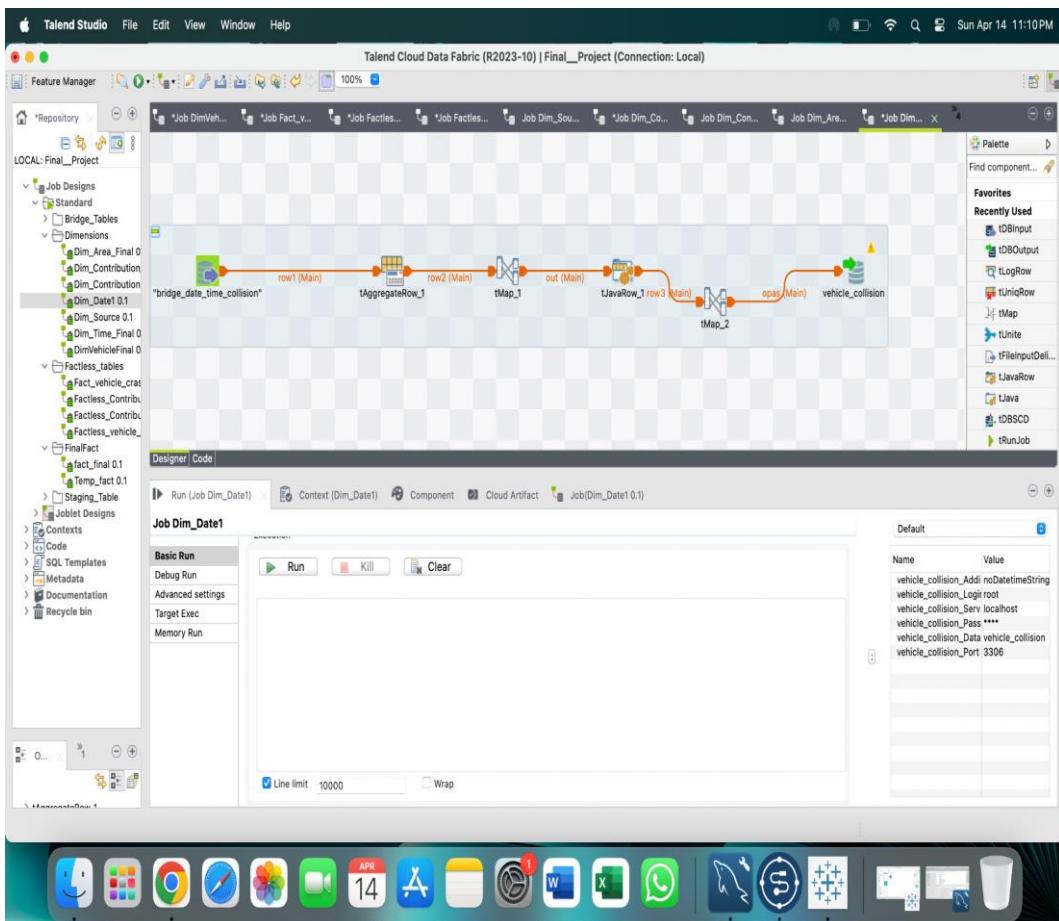
## Contribution Dimension:



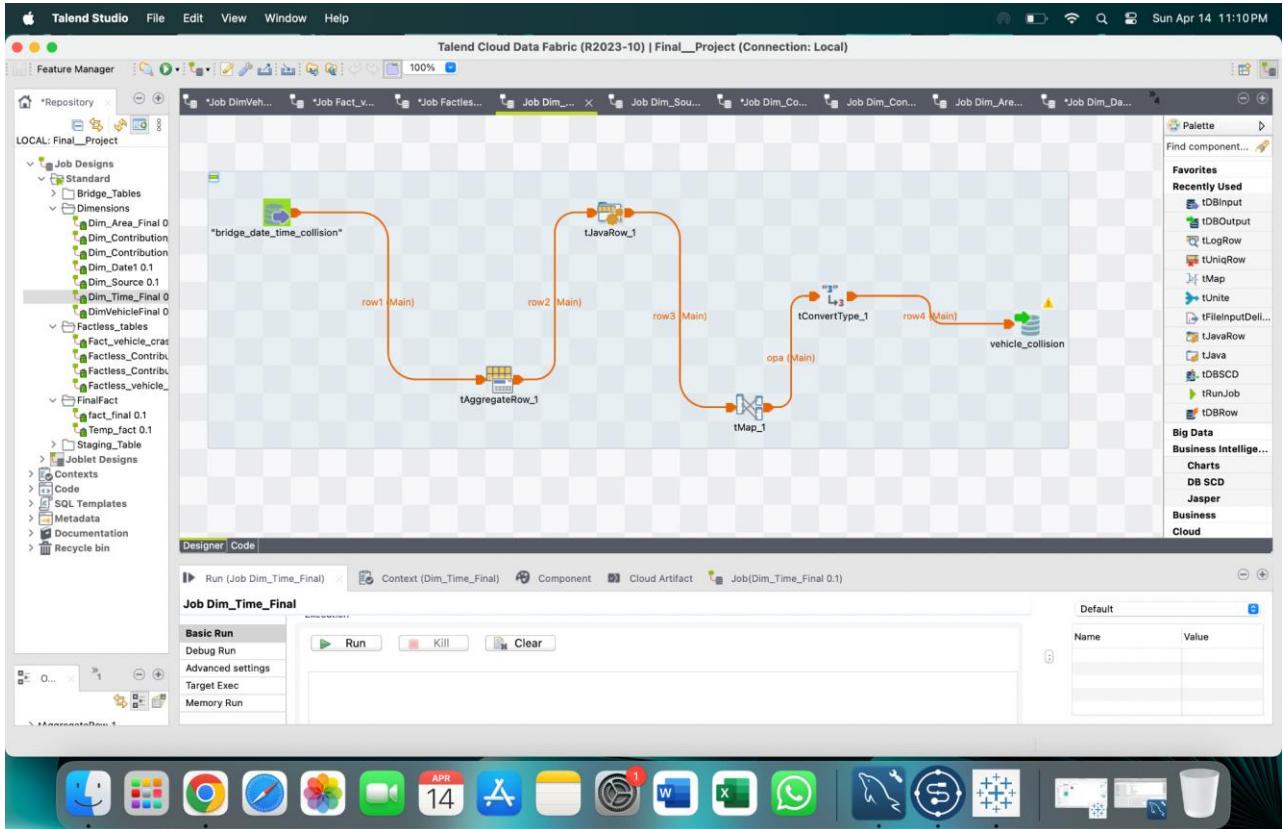
## Area Dimension:



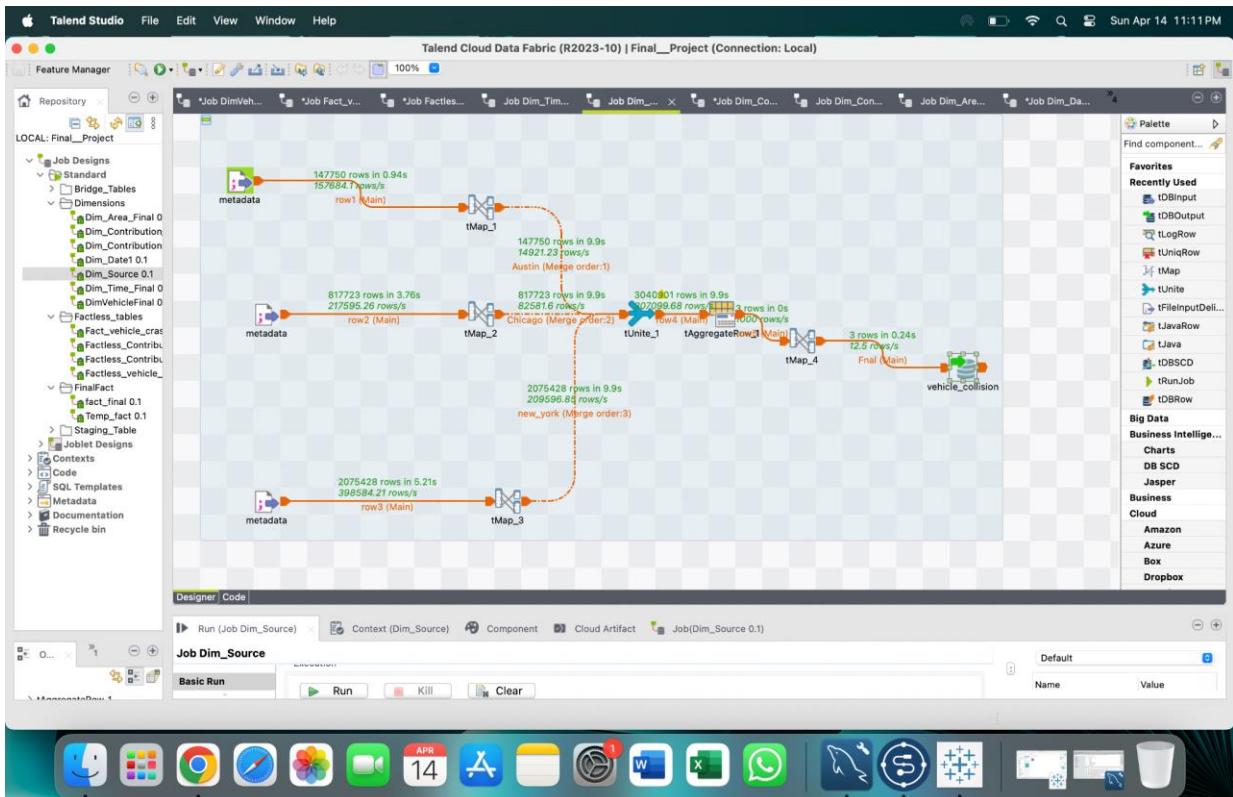
## Date Dimension:



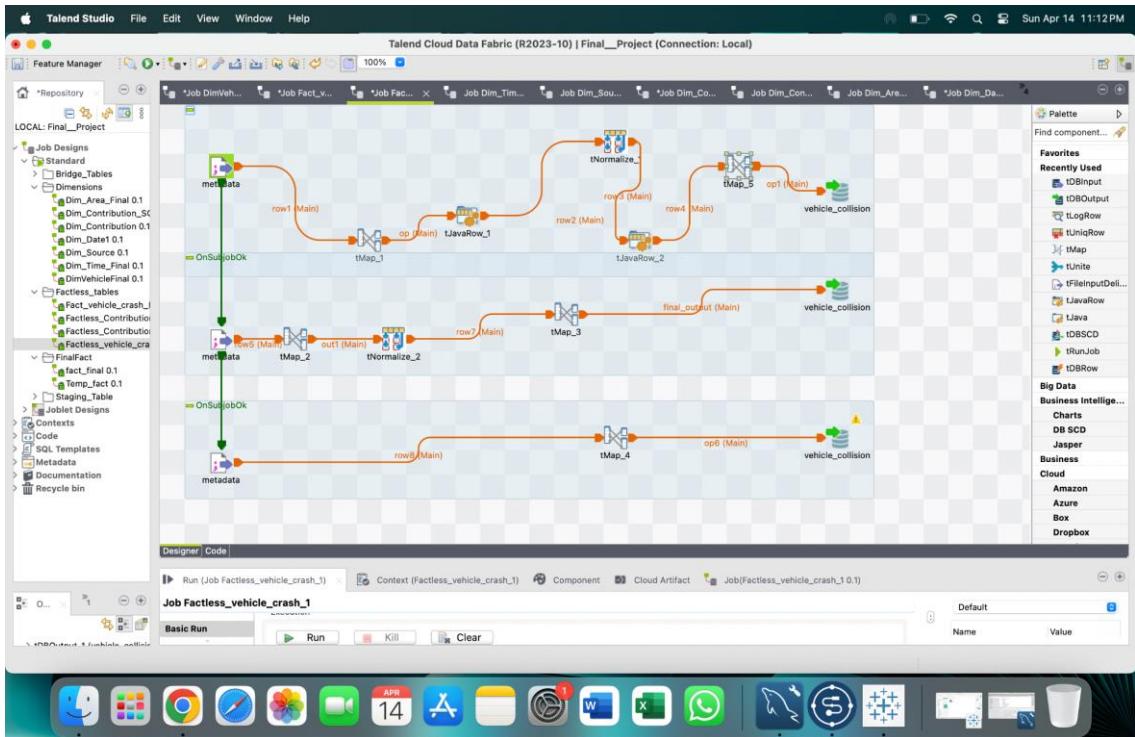
## Time Dimension:



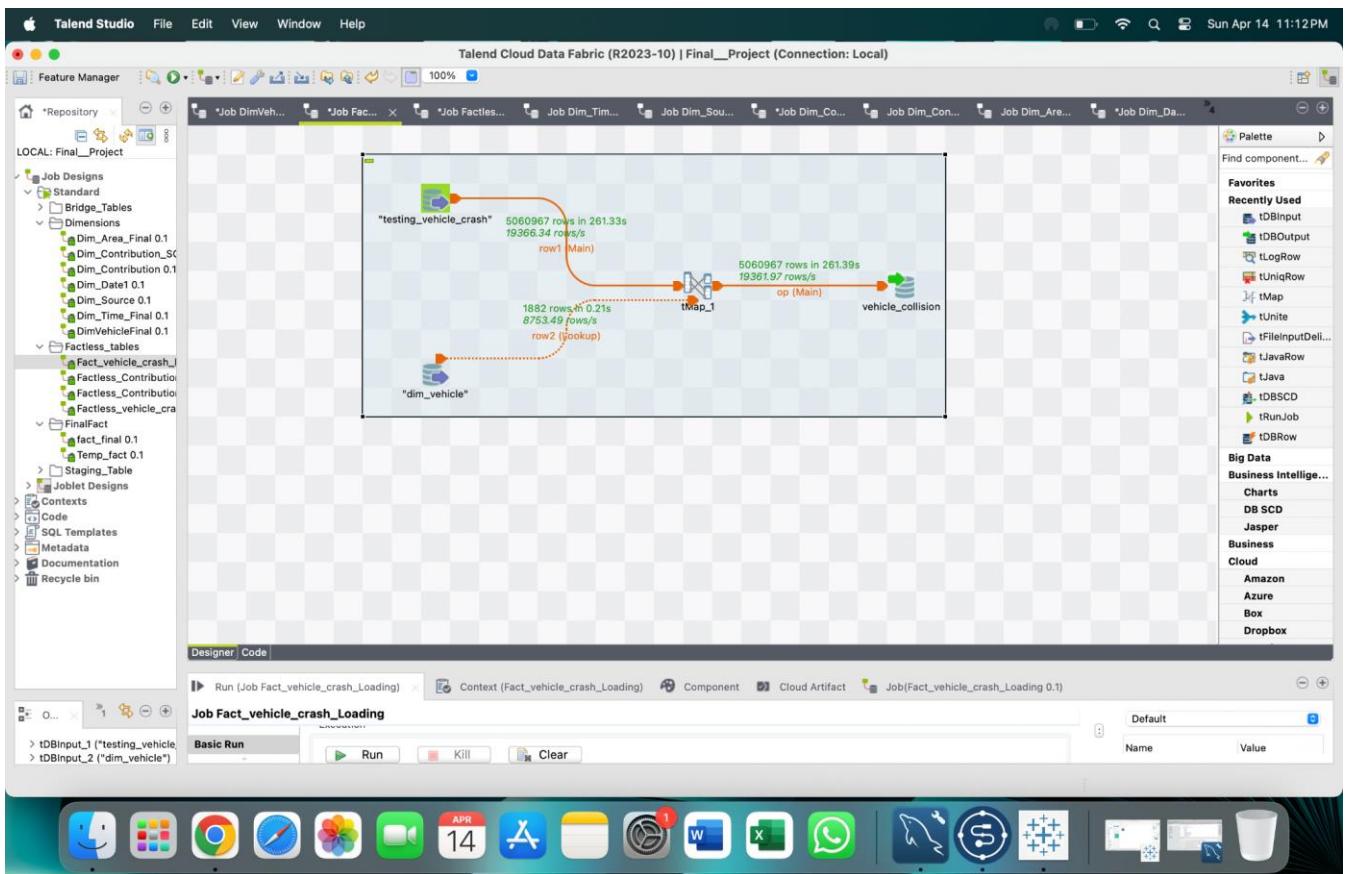
## Source Dimension:



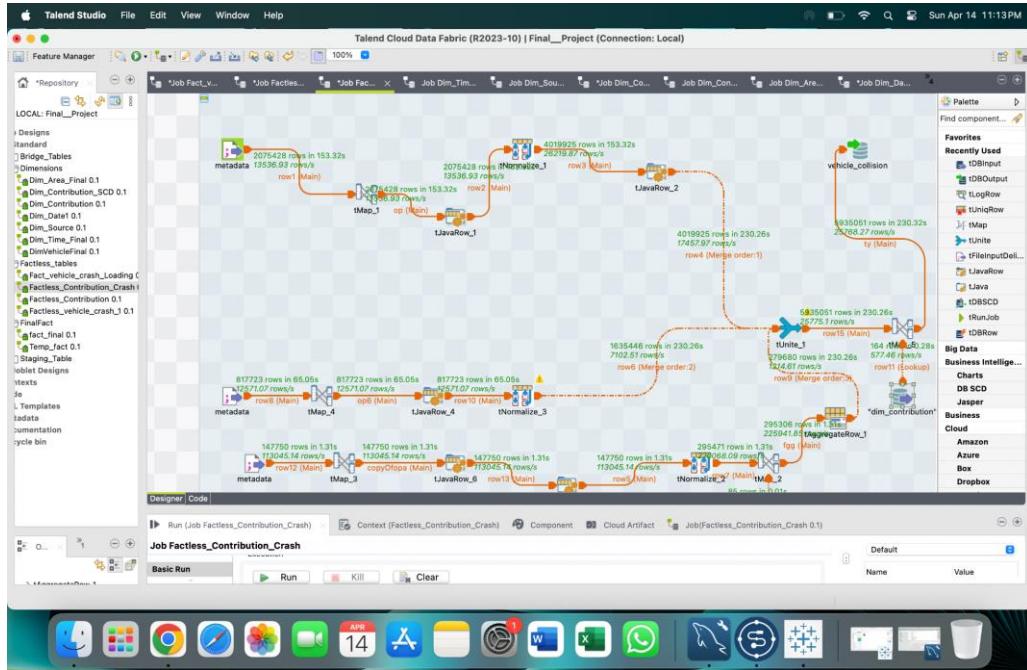
## Factless Vehicle Crash -



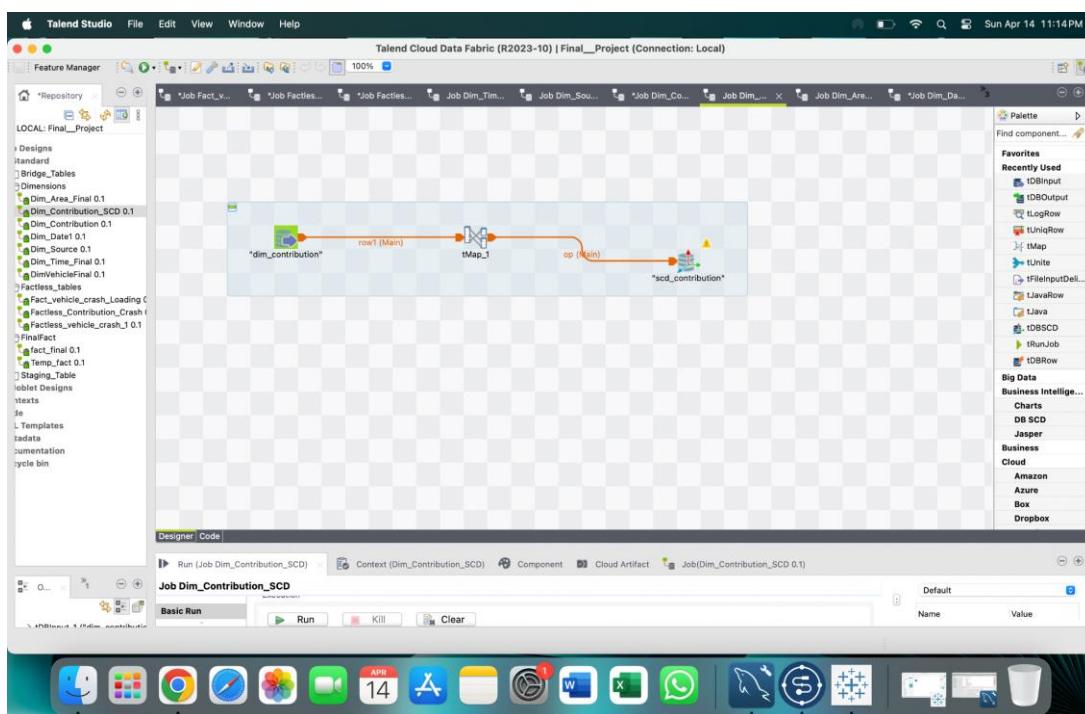
## Factless Vehicle Loading-



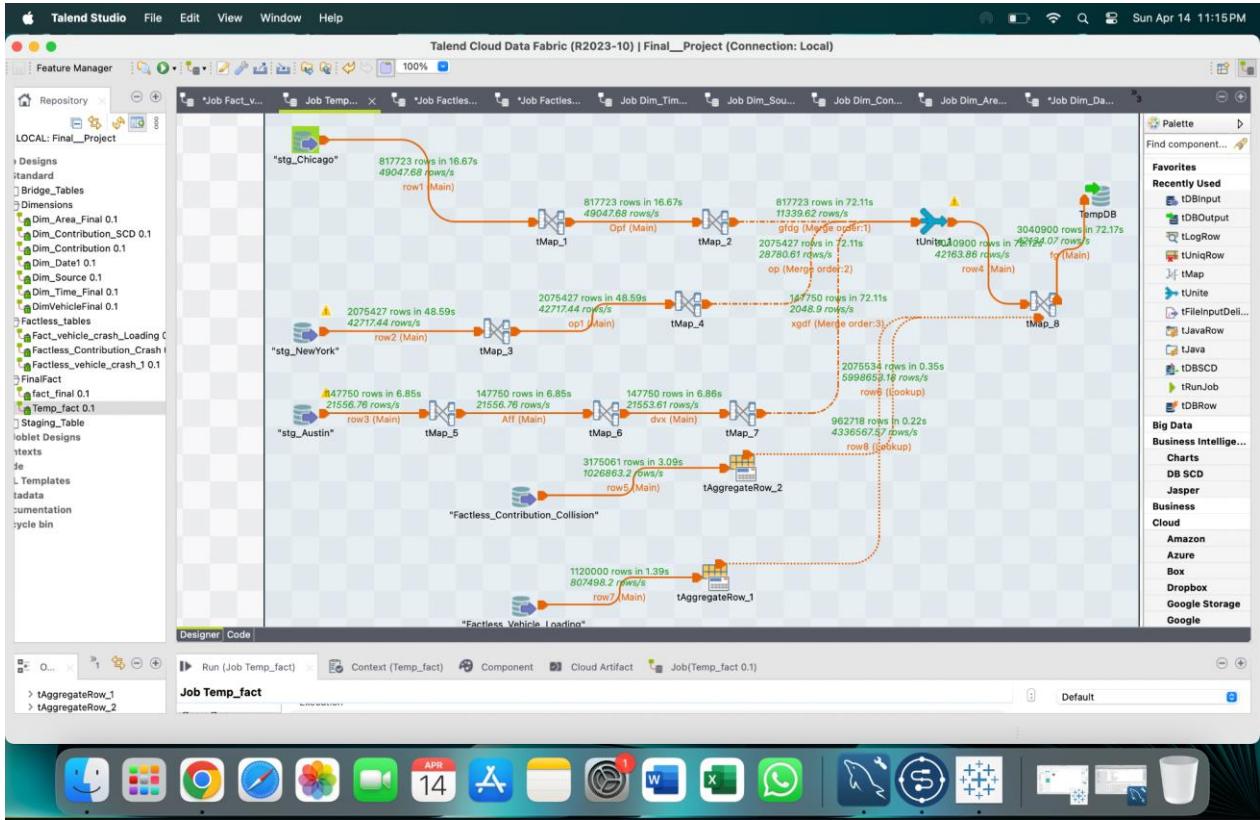
## Factless Contribution Crash



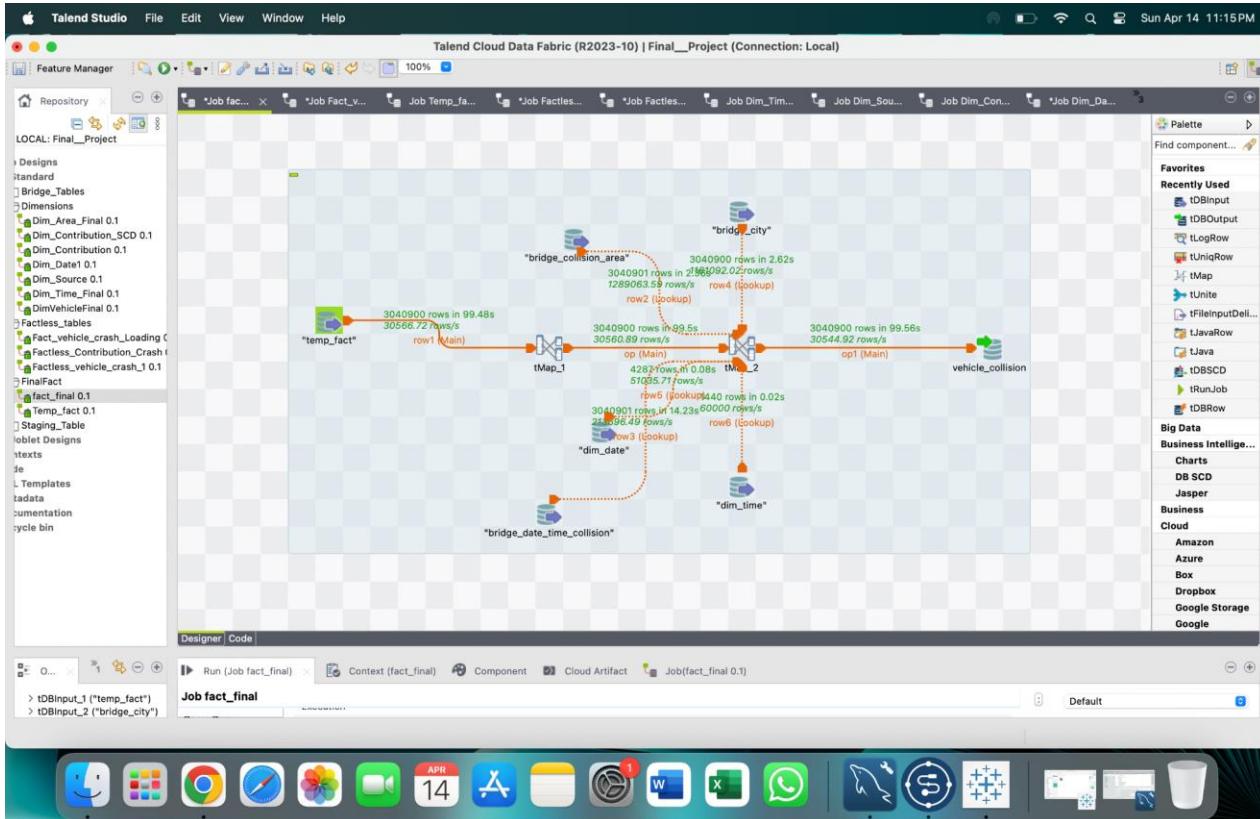
## **SCD Contribution-**



# Temp Fact Accident -



## FINAL Accident Fact:



# SQL:

MySQL Workbench - Sun Apr 7 11:47PM

**Schemas**

- dim\_time
- dim\_vehicle
- stg\_Austin
- stg\_Chicago
- stg\_NewYork
- TEST\_AUSTIN\_BRIDGE
- TEST\_CHICAGO\_BRIDGE
- TEST\_NEWWORKVEHICLEBRIDGE
- Views could not be fetched
- Stored Procedures could not be fetched
- Functions could not be fetched
- JSON\_PARSING
- Midterm\_Group\_19
- mysql1
- new\_schema
- Pratik
- sys
- talendquiz
- TempDatabase
- Tables
- Fact\_Accident
- Factless\_Contribution\_Collision
- Factless\_Vehicle\_Loading
- Views
- Stored Procedures
- Functions

**Query Editor**

```

1 • use FinalProject;
2
3 • SELECT * FROM FinalProject.stg_Austin;
4 • SELECT * FROM FinalProject.stg_Chicago;
5 • SELECT * FROM FinalProject.stg_NewYork;
6
7
8 • SELECT * FROM FinalProject.dim_area;
9 • SELECT * FROM FinalProject.dim_city;
10 • SELECT * FROM FinalProject.dim_contribution;
11 • SELECT * FROM FinalProject.dim_date;
12 • SELECT * FROM FinalProject.dim_source;
    
```

**Result Grid**

crash_id	City_name	crash_fatal...	crash_date	crash_time	case_id	rpt_latitu...	rpt_longitu...	rpt_block_n...	rpt_street_n...
13777441	Austin	N	03/28/2014 03:42:00 PM	15:42:00	140871196			8704	
13797332	Austin	N	04/09/2014 02:09:00 PM	14:09:00	140991015			8000	
13795604	Austin	N	04/07/2014 06:00:00 PM	18:00:00	140971248	200		W	
13765070	Austin	N	03/31/2014 03:26:00 AM	03:26:00	140900191	8700		S	
13790426	Austin	N	04/04/2014 02:34:00 AM	14:34:00	140941160	4000			
13795213	Austin	N	04/18/2014 02:06:00 AM	02:06:00	141080164	1500		E	
13786430	Austin	N	04/04/2014 12:11:00 AM	00:11:00	140940020	3400		N	
13792606	Austin	N	04/18/2014 10:05:00 AM	10:05:00	141080445	700		S	
13803033	Austin	N	04/13/2014 01:06:00 PM	13:06:00	141030908	2100			
13765043	Austin	N	03/28/2014 04:04:00 PM	16:04:00	140871241				
13800672	Austin	N	04/11/2014 12:13:00 PM	12:13:00	141010879	8300			
13792523	Austin	N	04/08/2014 10:00:00 AM	10:00:00	140980602	2900		S	
13781584	Austin	N	03/31/2014 08:59:00 AM	08:59:00	140900474	400		E	
13773523	Austin	N	04/04/2014 09:14:00 AM	09:14:00	140940563	600		W	
13797628	Austin	N	04/10/2014 12:30:00 PM	12:30:00	141000856	2200		S	
13767418	Austin	N	04/01/2014 01:10:00 AM	01:10:00	140910083	6300		W	
13788264	Austin	N	04/15/2014 08:30:00 AM	08:30:00	141050418	11400		N	
13781499	Austin	N	03/29/2014 09:25:00 AM	09:25:00	140880700				
13802545	Austin	N	04/08/2014 08:18:00 PM	20:18:00	140981718				

**Context Help**

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench - Sun Apr 7 11:47PM

**Schemas**

- dim\_time
- dim\_vehicle
- stg\_Austin
- stg\_Chicago
- stg\_NewYork
- TEST\_AUSTIN\_BRIDGE
- TEST\_CHICAGO\_BRIDGE
- TEST\_NEWWORKVEHICLEBRIDGE
- Views could not be fetched
- Stored Procedures could not be fetched
- Functions could not be fetched
- JSON\_PARSING
- Midterm\_Group\_19
- mysql1
- new\_schema
- Pratik
- sys
- talendquiz
- TempDatabase
- Tables
- Fact\_Accident
- Factless\_Contribution\_Collision
- Factless\_Vehicle\_Loading
- Views
- Stored Procedures
- Functions

**Query Editor**

```

1 • use FinalProject;
2
3 • SELECT * FROM FinalProject.stg_Austin;
4 • SELECT * FROM FinalProject.stg_Chicago;
5 • SELECT * FROM FinalProject.stg_NewYork;
6
7
8 • SELECT * FROM FinalProject.dim_area;
9 • SELECT * FROM FinalProject.dim_city;
10 • SELECT * FROM FinalProject.dim_contribution;
11 • SELECT * FROM FinalProject.dim_date;
12 • SELECT * FROM FinalProject.dim_source;
    
```

**Result Grid**

CRASH_RECORD_ID	Ciy_Name	CRASH_DATE_EST_	CRASH_DATE	POSTED_SPEED_LIMIT	T
61fc8c1eb522a469b469e2134df0d1582e61f...	Chicago	08/18/2023 05:58:00 PM	30	N	
004cd140d303a9163aaad69a27341b7da2a57...	Chicago	11/26/2019 08:38:00 AM	25	N	
a15f0ea90897745365a4ccb6c60329a120d8...	Chicago	08/18/2023 10:45:00 AM	20	N	
b236c77d59e2b70469a6e217143b7457e1bd...	Chicago	07/29/2023 01:00:00 PM	30	T	
35156ce97cab22747495e02e8bb16c57e060...	Chicago	02/06/2023 05:30:00 PM	30	N	
0e208d33440d1b39cd4bb0767a750dbd73...	Chicago	08/13/2023 01:30:00 PM	35	N	
14386d6ed6219c6032b716122b2f0a4cd3de289...	Chicago	08/13/2023 12:11:00 AM	30	T	
359b9f95872d646bb3576e5b1e0b480d932...	Chicago	01/31/2022 07:45:00 PM	25	N	
36300857c079418ca1b170cf653595bb1456...	Chicago	01/01/2022 04:32:00 PM	10	N	
9e405b5680a0c067ca12f910d982cba7937ee...	Chicago	09/20/2023 11:00:00 AM	25	N	
2cb686641c12294972317da3d0f8e41bb56e4...	Chicago	10/09/2023 07:15:00 AM	15	N	
f0f52659e027fe20cbeb0f8749045828a2b58...	Chicago	07/29/2023 02:30:00 PM	10	N	
fda24913d3ac191034aaa7e901120126785b...	Chicago	07/29/2023 12:50:00 AM	30	T	
4386d5c475779879e882938e0576f7481478de...	Chicago	09/20/2023 12:35:00 PM	20	N	
21fc875b7ba19268e0fd1fb112cd2fe64...	Chicago	09/20/2023 04:45:00 PM	20	N	
8e0113a699b0bc2a3b0633dc8bca29168769...	Chicago	09/20/2023 09:15:00 PM	10	S	
37a215843a679d2118972242eab682323583f...	Chicago	10/18/2020 03:58:00 PM	35	N	
3b6d23138e3f009e54ae52f05061e9e964fd0...	Chicago	12/09/2021 10:30:00 AM	25	T	
1611458c7ff1e13592041c54db502674fdb70...	Chicago	09/20/2023 12:57:00 PM	15	N	

**Context Help**

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQLWorkbench File Edit View Query Database Server Tools Scripting Help

MySQL Workbench

Administration Schemas

SCHEMAS

```

1 • use FinalProject;
2
3 • SELECT * FROM FinalProject.stg_Austin;
4 • SELECT * FROM FinalProject.stg_Chicago;
5 • SELECT * FROM FinalProject.stg_NewYork;
6
7
8 • SELECT * FROM FinalProject.dim_area;
9 • SELECT * FROM FinalProject.dim_city;
10 • SELECT * FROM FinalProject.dim_contribution;
11 • SELECT * FROM FinalProject.dim_date;
12 • SELECT * FROM FinalProject.dim_source;

```

Result Grid Filter Rows: Search Export: Fetch rows: Read Only

Area_ID	street_name	latitude	longitude
3	BALCONES CLUB DR BALCONES CLUB DR	30.43798421	-97.78855804
4	US0296 E US 290 HWY SVRD EB	30.3276207970184	-97.6626808595204
5	US0296 BEN WHITE	30.22515795	-97.76719944
6	IH0035 IH 35 SVRD	30.16984339	-97.78425218
7	FM0973 S FM 973 RD	30.19320516	-97.64740225
8	E ANDERSON LN ANDERSON	30.33279476	-97.6861246
9	IH0035 IH 35 NB	30.29613303	-97.71983142
10	SL0001 MOPAC	30.2657795	-97.78253937
11	IH0035 N IH 35 SVRD SB	30.2785745242044	-97.7304912979312
12	MIDDLE FISKVILLE RD MIDDLE FISKVILLE	30.37492476	-97.67831247
13	US0183 E BEN WHITE BLVD EB	30.2221666	-97.6831389
14	S 1ST ST 1ST	30.23599898	-97.76348754
15	E ST JOHNS AVE E ST JOHNS AVE	30.3342295	-97.70716256
16	W SLAUGHTER LN SLAUGHTER	30.1724548	-97.79963245
17	IH0035 I H 35 SB	30.2357	-97.74075
18	W WILLIAM CANNON DR WILLIAM CANNON	30.23373062	-97.86476771
19	IH0035 IH 35	30.37819678	-97.67539004
20	QUAIL PARK DR QUAIL PARK DR	30.36387476	-97.70285247
21	LAKELINE BLVD LAKELINE	30.47948327	-97.80300509

dim\_area 15

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQLWorkbench File Edit View Query Database Server Tools Scripting Help

MySQL Workbench

Administration Schemas

SCHEMAS

```

1 • use FinalProject;
2
3 • SELECT * FROM FinalProject.stg_Austin;
4 • SELECT * FROM FinalProject.stg_Chicago;
5 • SELECT * FROM FinalProject.stg_NewYork;
6
7
8 • SELECT * FROM FinalProject.dim_area;
9 • SELECT * FROM FinalProject.dim_city;
10 • SELECT * FROM FinalProject.dim_contribution;
11 • SELECT * FROM FinalProject.dim_date;
12 • SELECT * FROM FinalProject.dim_source;

```

Result Grid Filter Rows: Search Export: Fetch rows: Read Only

City_ID	City_Name
1	Austin
2	Austin
3	Austin
4	Austin
5	Austin
6	Austin
7	Austin
8	Austin
9	Austin
10	Austin
11	Austin
12	Austin
13	Austin
14	Austin
15	Austin
16	Austin
17	Austin
18	Austin
19	Austin
20	Austin

dim\_city 16

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQLWorkbench File Edit View Query Database Server Tools Scripting Help

MySQL Workbench

Administration Schemas

new - Warning - not supported

File Untitled dim\_contribution dim\_date dim\_source dim\_time dim\_vehicle stg\_Austin stg\_Chicago > Context... Snippets

Filter objects

1 • use FinalProject;  
2  
3 • SELECT \* FROM FinalProject.stg\_Austin;  
4 • SELECT \* FROM FinalProject.stg\_Chicago;  
5 • SELECT \* FROM FinalProject.stg\_NewYork;  
6  
7  
8 • SELECT \* FROM FinalProject.dim\_area;  
9 • SELECT \* FROM FinalProject.dim\_city;  
10 • SELECT \* FROM FinalProject.dim\_contribution;  
11 • SELECT \* FROM FinalProject.dim\_date;  
12 • SELECT \* FROM FinalProject.dim\_source;

100% 45:10

Result Grid Filter Rows: Search Export:

Contribution_ID	Contributing_Factor
1	Pavement Slippery
2	Following Too Closely
3	Unknown
4	Passing Too Closely
5	Driver Inexperience
6	Passing or Lane Usage Improper
7	Turning Improperly
8	Unsafe Lane Changing
9	Unsafe Speed
10	Reaction to Uninvolved Vehicle
11	Steering Failure
12	Traffic Control Disregarded
13	Other Vehicular
14	Driver Inattention/Distracted
15	Oversized Vehicle
16	Pedestrian/Bicyclist/Other Pedestrian
17	Alcohol Involvement
18	View Obstructed/Limited
19	Failure to Yield Right-of-Way
20	
21	

dim\_contribution 17

Read Only

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Query Completed

MySQLWorkbench File Edit View Query Database Server Tools Scripting Help

MySQL Workbench

Administration Schemas

new - Warning - not supported

File Untitled dim\_contribution dim\_date dim\_source dim\_time dim\_vehicle stg\_Austin stg\_Chicago > Context... Snippets

Filter objects

1 • use FinalProject;  
2  
3 • SELECT \* FROM FinalProject.stg\_Austin;  
4 • SELECT \* FROM FinalProject.stg\_Chicago;  
5 • SELECT \* FROM FinalProject.stg\_NewYork;  
6  
7  
8 • SELECT \* FROM FinalProject.dim\_area;  
9 • SELECT \* FROM FinalProject.dim\_city;  
10 • SELECT \* FROM FinalProject.dim\_contribution;  
11 • SELECT \* FROM FinalProject.dim\_date;  
12 • SELECT \* FROM FinalProject.dim\_source;

100% 37:11

Result Grid Filter Rows: Search Export:

Date_ID	crash_date
1	03/28/2014 03:42:00 PM
2	04/09/2014 02:09:00 PM
3	04/07/2014 06:00:00 PM
4	03/31/2014 03:26:00 AM
5	04/04/2014 02:34:00 PM
6	04/18/2014 02:06:00 AM
7	04/04/2014 12:11:00 AM
8	04/18/2014 10:05:00 AM
9	04/13/2014 01:06:00 PM
10	03/29/2014 08:25:00 AM
11	04/11/2014 12:13:00 PM
12	04/08/2014 10:00:00 AM
13	03/31/2014 08:59:00 AM
14	04/04/2014 09:14:00 AM
15	04/10/2014 12:30:00 PM
16	04/01/2014 01:10:00 AM
17	04/15/2014 08:30:00 AM
18	03/29/2014 09:25:00 AM
19	04/08/2014 08:18:00 PM
20	
21	

dim\_date 18

Read Only

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Query Completed

The screenshot shows the MySQL Workbench interface on a Mac OS X desktop. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The title bar says "MySQL Workbench". The left sidebar has tabs for Administration and Schemas. Under Schemas, there's a tree view of databases and tables, with "stg\_NewYork" selected. The main area contains a query editor with the following SQL code:

```
2 • SELECT * FROM FinalProject.stg_Austin;
3 • SELECT * FROM FinalProject.stg_Chicago;
5 • SELECT * FROM FinalProject.stg_NewYork;
6
7
8 • SELECT * FROM FinalProject.dim_area;
9 • SELECT * FROM FinalProject.dim_city;
10 • SELECT * FROM FinalProject.dim_contribution;
11 • SELECT * FROM FinalProject.dim_date;
12 • SELECT * FROM FinalProject.dim_source; 13 • SELECT * FROM FinalProject.dim_time;
```

The status bar at the bottom indicates "Query Completed". On the right side, there are several panes: "Result Grid" (selected), "Form Editor", "Field Types", "Query Stats", and "Execution Plan". A vertical toolbar on the far right has icons for "Result Grid", "Form Editor", "Field Types", "Query Stats", and "Execution Plan".

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The title bar says "MySQL Workbench". The left sidebar has sections for Administration, Schemas, and Tables. Under Schemas, there are several databases listed, with "stg\_NewYork" selected. Under Tables, there are entries for Fact\_Accident, Factless\_Contribution\_Collision, Factless\_Vehicle\_Loading, Views, Stored Procedures, and Functions. The main workspace contains a query editor with tabs for Untitled, dim\_contribution, dim\_date, dim\_source, dim\_time, dim\_vehicle, stg\_Austin, stg\_Chicago, and stg\_Chicago. The "dim\_time" tab is active, displaying a query and its execution progress (37/13). Below the query is a Result Grid showing data from the "dim\_time" table. A context menu is open on the right side of the screen, with the option "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." highlighted.

MySQLWorkbench

File Edit View Query Database Server Tools Scripting Help

MySQL Workbench

Administration Schemas

**SCHEMAS**

Filter objects

- > dim\_time
- > dim\_vehicle
- > stg\_Austin
- > stg\_Chicago
- > stg\_NewYork
- > TEST\_AUSTIN\_BRIDGE
- > TEST\_CHICAGO\_BRIDGE
- > TEST\_NEWYORKVEHICLEBRIDGE
- > Views could not be fetched
- > Stored Procedures could not be fetched
- > Functions could not be fetched
- > JSON\_PARSING
- > Midterm\_Group\_19
- > mysql
- > new\_schema
- > Pratik
- > sys
- > talendquiz
- > TempDatabase
- > Tables
  - > Fact\_Accident
  - > Factless\_Contribution\_Collision
  - > Factless\_Vehicle\_Loading
- > Views
- > Stored Procedures
- > Functions

Untitled dim\_contribution dim\_date dim\_source dim\_time dim\_vehicle stg\_Austin stg\_Chicago > Context... Snippets

MySQL Workbench

Filter to 10000 rows

```

4 •   SELECT * FROM FinalProject.stg_Chicago;
5 •   SELECT * FROM FinalProject.stg_NewYork;
6
7
8 •   SELECT * FROM FinalProject.dim_area;
9 •   SELECT * FROM FinalProject.dim_city;
10 •  SELECT * FROM FinalProject.dim_contribution;
11 •  SELECT * FROM FinalProject.dim_date;
12 •  SELECT * FROM FinalProject.dim_source;
13 •  SELECT * FROM FinalProject.dim_time;
14 •  SELECT * FROM FinalProject.dim_vehicle;
15

```

100% 40:14 |

**Result Grid** Filter Rows: Search Export:

Vehicle_type	Vehicle_ID
Oversized Vehicle	3
Pavement Defective:Fatigued:Drowsy	4
Driver Inattention/Distraction:Fall Asleep	5
Driver Inattention/Distraction:Oversized Vehicle:Unspecified	6
Unsafe Speed:Pavement Slippery:Unspecified:Unspecified	7
Other Vehicular:Pavement Slippery:Unspecified	8
Driver Inexperience:Oversized Vehicle	9
Driver Inattention/Distraction:Traffic Control Device Improper/Non-Working	10
Passing or Lane Usage Improper:Passenger Distraction:Unspecified	11
Turning:Improperly:Failure to Keep Right:Unspecified	12
Traffic Control Disregarded:Prescription Medication	13
Lost Consciousness:Other Vehicle:Other Vehicular:Unspecified:Unspecified	14
Unsafe Speed:Following Too Closely	15
Reaction to Other Uninvolved Vehicle:Fatigued:Drowsy	16
Animals:Action:Unspecified	17
Unsafe Lane Changing:Brakes Defective:Unspecified	18
Alcohol Involvement:Reaction to Uninvolved Vehicle:Unspecified:Unspecified	19
Driverless/Runaway Vehicle:Unsafe Speed:Unspecified	20
Passing or Lane Usage Improper:Cell Phone (hands-free)	21

dim\_vehicle 21

Result Grid Form Editor Field Types Query Stats Execution Plan

Read Only

Query Completed

## Alteryx Data Profiling Report:







# SQL ROW COUNTS -

MySQL Workbench - Sun Apr 14 11:17PM

Administration Schemas

Limit to 10000 rows

1 • `SELECT COUNT(*) FROM vehicle_collision.area_dim;`

Result Grid

COUNT(*)
831883

Action Output

Time	Action	Response
56 23:17:05	SELECT COUNT(*) FROM TempDatabase.bridge_city LIMIT 0, 10000	1 row(s) returned
57 23:17:27	SELECT COUNT(*) FROM TempDatabase.bridge_collision_area LIMIT 0, 10000	1 row(s) returned
58 23:17:47	SELECT * FROM vehicle_collision.area_dim LIMIT 0, 10000	10000 row(s) returned
59 23:17:53	SELECT COUNT(*) FROM vehicle_collision.area_dim LIMIT 0, 10000	1 row(s) returned

Result 2

Query Completed

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench - Sun Apr 14 11:18PM

Administration Schemas

Limit to 10000 rows

1 • `SELECT COUNT(*) FROM vehicle_collision.DIM_TIME;`

Result Grid

COUNT(*)
1440

Action Output

Time	Action	Response
59 23:17:53	SELECT COUNT(*) FROM vehicle_collision.area_dim LIMIT 0, 10000	1 row(s) returned
60 23:18:09	SELECT COUNT(*) FROM vehicle_collision.dim_contribution LIMIT 0, 10000	1 row(s) returned
61 23:18:20	SELECT COUNT(*) FROM vehicle_collision.DIM_DATE LIMIT 0, 10000	1 row(s) returned
62 23:18:29	SELECT COUNT(*) FROM vehicle_collision.DIM_TIME LIMIT 0, 10000	1 row(s) returned

Result 5

Query Completed

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQLWorkbench File Edit View Query Database Server Tools Scripting Help Sun Apr 14 11:19PM

MySQL Workbench

Administration Schemas

Filter objects

dim\_contribution dim\_date dim\_source dim\_time dim\_vehicle bridge\_date\_time\_collision bridge\_collision\_area bridge\_city Context... Snippets

Limit to 10000 rows

1 • `SELECT COUNT(*) FROM vehicle_collision.dim_vehicle;`

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid Filter Rows: Search Export:

COUNT(*)
1882

Action Output Time Action Response

61	23:18:20	SELECT COUNT(*) FROM vehicle_collision.DIM_DATE LIMIT 0, 10000	1 row(s) returned
62	23:18:29	SELECT COUNT(*) FROM vehicle_collision.DIM_TIME LIMIT 0, 10000	1 row(s) returned
63	23:19:12	SELECT * FROM vehicle_collision.dim_vehicle LIMIT 0, 10000	1882 row(s) returned
64	23:19:17	SELECT COUNT(*) FROM vehicle_collision.dim_vehicle LIMIT 0, 10000	1 row(s) returned

Result 2 Read Only

Query Completed

MySQLWorkbench File Edit View Query Database Server Tools Scripting Help Sun Apr 14 11:19PM

MySQL Workbench

Administration Schemas

Filter objects

dim\_contribution dim\_date dim\_source dim\_time dim\_vehicle bridge\_date\_time\_collision bridge\_collision\_area bridge\_city Context... Snippets

Limit to 10000 rows

1 • `SELECT COUNT(*) FROM vehicle_collision.factless_contribution_collision;`

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid Filter Rows: Search Export:

COUNT(*)
5935051

Action Output Time Action Response

63	23:19:12	SELECT * FROM vehicle_collision.dim_vehicle LIMIT 0, 10000	1882 row(s) returned
64	23:19:17	SELECT COUNT(*) FROM vehicle_collision.dim_vehicle LIMIT 0, 10000	1 row(s) returned
65	23:19:31	SELECT * FROM vehicle_collision.factless_contribution_collision LIMIT 0, 10000	10000 row(s) returned
66	23:19:37	SELECT COUNT(*) FROM vehicle_collision.factless_contribution_collision LIMIT...	1 row(s) returned

Result 2 Read Only

Query Completed

MySQL Workbench - Sun Apr 14 11:20PM

**Schemas**

- Administration
- Schemas
- dim\_contribution
- dim\_date
- dim\_source
- dim\_time
- dim\_vehicle
- bridge\_date\_time\_collision
- bridge\_collision\_area
- bridge\_city
- Context...
- Snippets

Filter objects

SCHEMAS

- Factless\_Contribution\_Collision
- Factless\_Vehicle\_Loading
- temp\_fact
- VehicleCrash\_Austin
- VehicleCrash\_Chicago
- Vehicle\_Crash\_factless
- VehicleCrash\_NY
- Views
- Stored Procedures
- Functions
- vehicle\_collision
- Tables
- area\_dim
- dim\_contribution
- dim\_date
- dim\_source
- dim\_time
- dim\_vehicle
- Fact\_collision
- factless\_contribution\_collision
- factless\_vehicle\_collision
- scd\_contribution
- testing\_vehicle\_crash
- Views
- Stored Procedures
- Functions

Result Grid

1 • SELECT \* FROM vehicle\_collision.scd\_contribution;

Contribution_ID	Contribution_SK	Contributing_Factor	DL_Process_ID	DL_Workflow_Filename	DL_CreateDate	scd_start	scd_end	is_active
2	3	Pavement Slippery	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
3	3	Following Too Closely	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
4	4	Unknown	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
5	5	Passing Too Closely	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
6	6	Driver Inexperience	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
7	7	Passing or Lane Usage I...	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
8	8	Turning Improperly	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
9	9	Unsafe Lane Changing	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
10	10	Unsafe Speed	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1
11	11	Conducting Distracted Driving	CNWKje	Contribution_Dimplatik	2024-04-12	2024-04-12	9999-12-31	1

scd\_contribution 1

Action Output

Time Action Response

64 23:19:17 SELECT COUNT(\*) FROM vehicle\_collision.dim\_vehicle LIMIT 0, 10000 1 row(s) returned

Query Completed

MySQL Workbench - Sun Apr 14 11:20PM

**Schemas**

- Administration
- Schemas
- dim\_contribution
- dim\_date
- dim\_source
- dim\_time
- dim\_vehicle
- bridge\_date\_time\_collision
- bridge\_collision\_area
- bridge\_city
- Context...
- Snippets

Filter objects

SCHEMAS

- Factless\_Contribution\_Collision
- Factless\_Vehicle\_Loading
- temp\_fact
- VehicleCrash\_Austin
- VehicleCrash\_Chicago
- Vehicle\_Crash\_factless
- VehicleCrash\_NY
- Views
- Stored Procedures
- Functions
- vehicle\_collision
- Tables
- area\_dim
- dim\_contribution
- dim\_date
- dim\_source
- dim\_time
- dim\_vehicle
- Fact\_collision
- factless\_contribution\_collision
- factless\_vehicle\_collision
- scd\_contribution
- testing\_vehicle\_crash
- Views
- Stored Procedures
- Functions

Result Grid

1 • SELECT \* FROM vehicle\_collision.testing\_vehicle\_crash;

crash_id	Vehicle_type	DL_Process_ID	DL_Workflow_FileName	DL_CreateDate
4513547	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4541903	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4541903	Pick-up Truck	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4456314	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
448660	Unknown	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4407458	Dump	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4407458	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4486555	Tractor Truc...	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4486660	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4486660	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18
4487074	Sedan	dwe86J	factless_vehicle/pratik	2024-04-13 21:36:18

testing\_vehicle\_crash 1

Action Output

Time Action Response

68 23:20:12 SELECT \* FROM vehicle\_collision.testing\_vehicle\_crash LIMIT 0, 10000 10000 row(s) returned

Query Completed

MySQL Workbench - Sun Apr 14 11:00PM

**Schemas**

- Administration
- Schemas
- dim\_contribution
- dim\_date
- dim\_source
- dim\_time
- dim\_vehicle
- bridge\_date\_time\_collision
- bridge\_collision\_area
- bridge\_city
- > Context... Snippets

Limit to 10000 rows

1 • `SELECT * FROM vehicle_collision.Fact_collision;`

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

crash_id	city_id	Area_ID	date_id	time_id	Person_Killed_count	Person_Injured_count
61fc8c1eb522aa6469460x134d...	2	196284	1271	180100	0	0
004cd140303a9153aa9892673...	2	783794	555	83800	0	0
a1d5f0ea0897745365e4ccb06cc...	2	783794	1271	104800	0	0
b236c77d59e32b7d469ae62174...	2	497151	56	134600	0	0
35156ce07ca02747495e928b0...	2	783794	577	173500	0	0
0e208d233440d113a9f0d4b076...	2	380731	1954	194000	0	0
14895505303a9153aa9892673...	2	400659	1954	1100	0	0
3389c95c87749e4bc625718d0...	2	675984	0	100000	0	0
3630e0857c7d7941bbab1b1d70...	2	623798	2409	163200	0	0
9e405b056806cb07ca12910d98...	2	98172	3635	112000	0	0
2cb1b6fa1c1229fa972517ad3f...	2	783794	1771	72000	0	0
fd05285e0d273fe0c0bbe847940...	2	412332	2413	135500	0	0
fda2491d33ac81903334aa7ed90...	2	746494	56	190000	0	0
436c55c75779879e882928e0576...	2	783794	3638	123500	0	0

Result 1

Read Only

Query Completed

MySQL Workbench - Sun Apr 14 11:20PM

**Schemas**

- Administration
- Schemas
- dim\_contribution
- dim\_date
- dim\_source
- dim\_time
- dim\_vehicle
- bridge\_date\_time\_collision
- bridge\_collision\_area
- bridge\_city
- > Context... Snippets

Limit to 10000 rows

1 • `SELECT COUNT(*) FROM vehicle_collision.Fact_collision;`

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

COUNT(*)
3040900

Result 2

Read Only

Query Completed

MySQL Workbench - Sun Apr 14 11:22PM

File Edit View Query Database Server Tools Scripting Help

Schemas

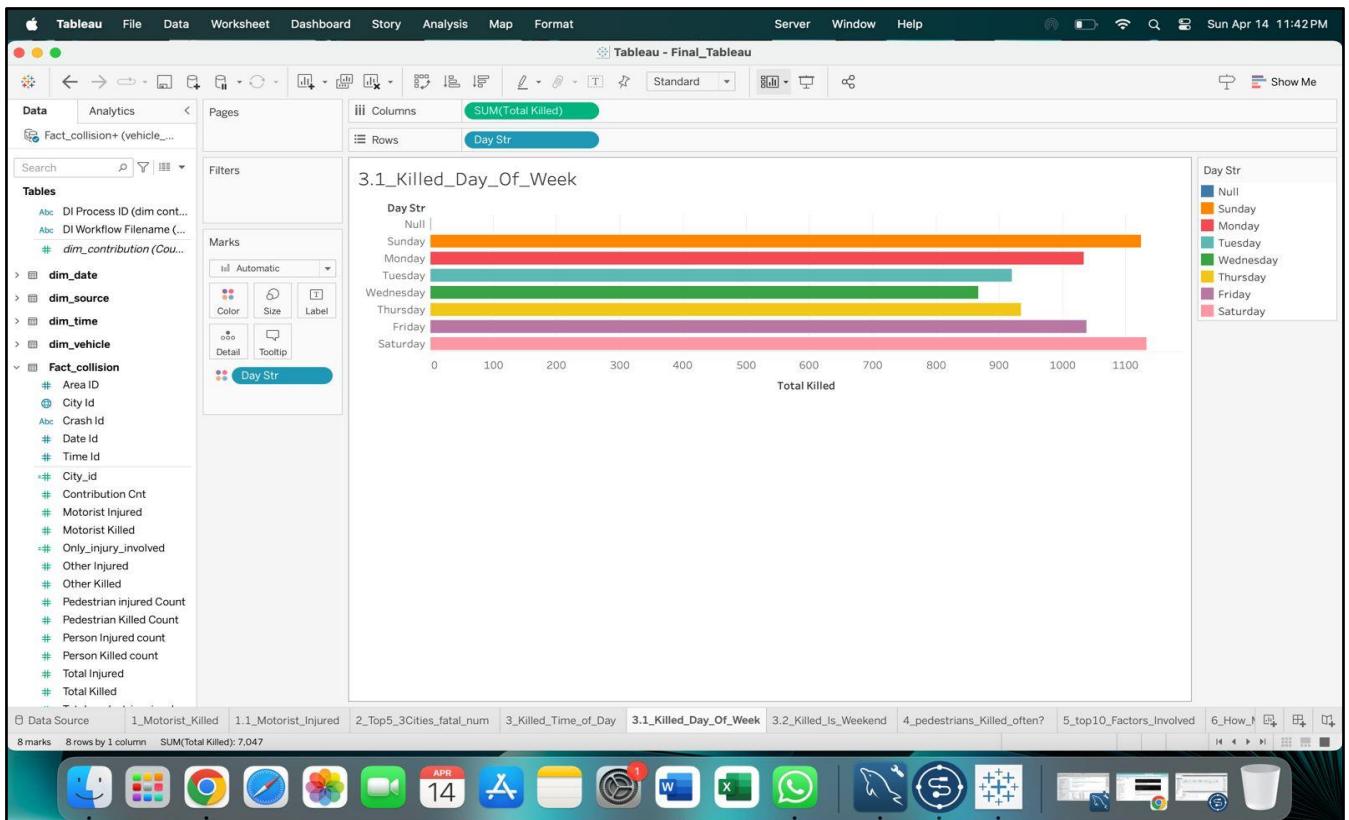
```

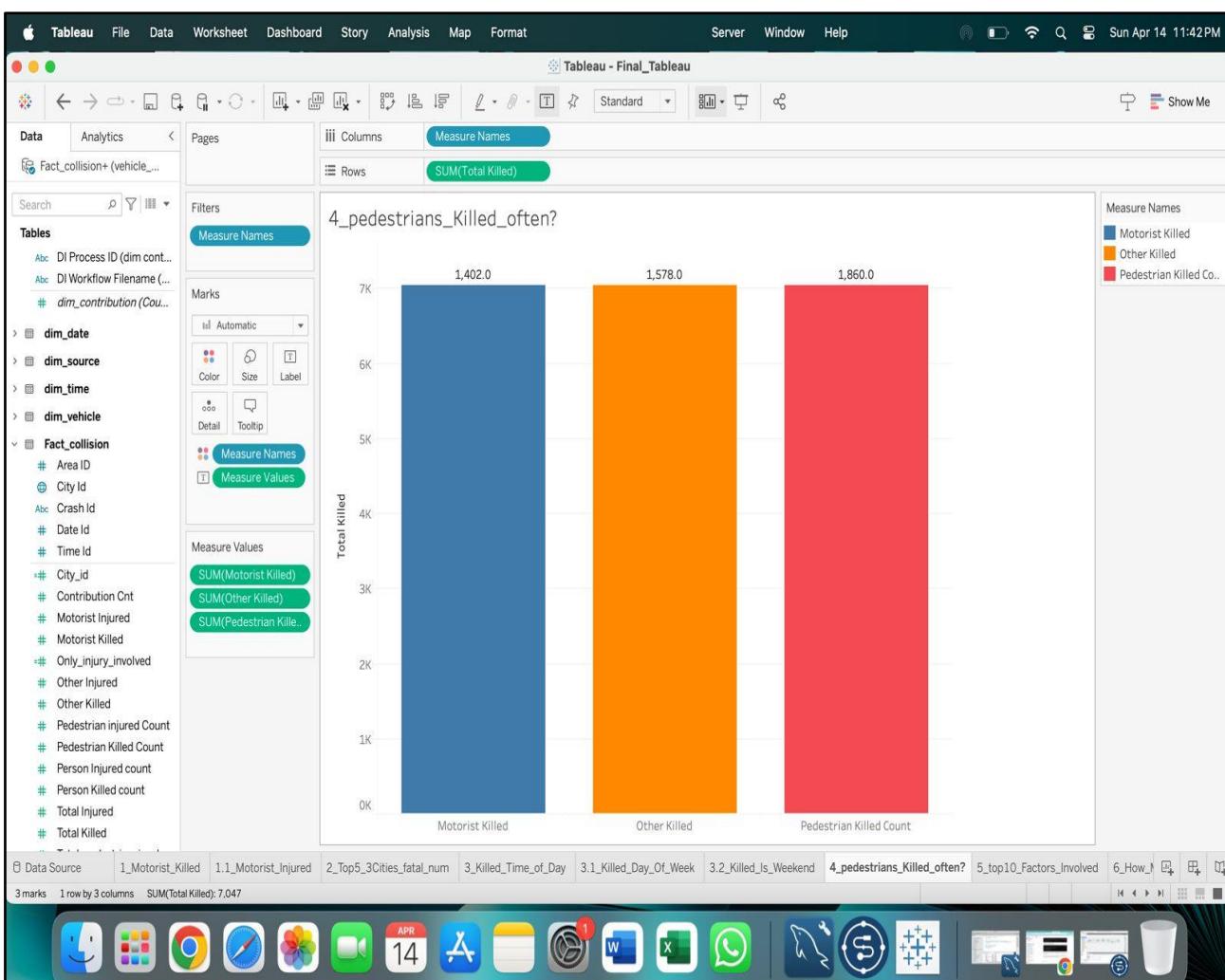
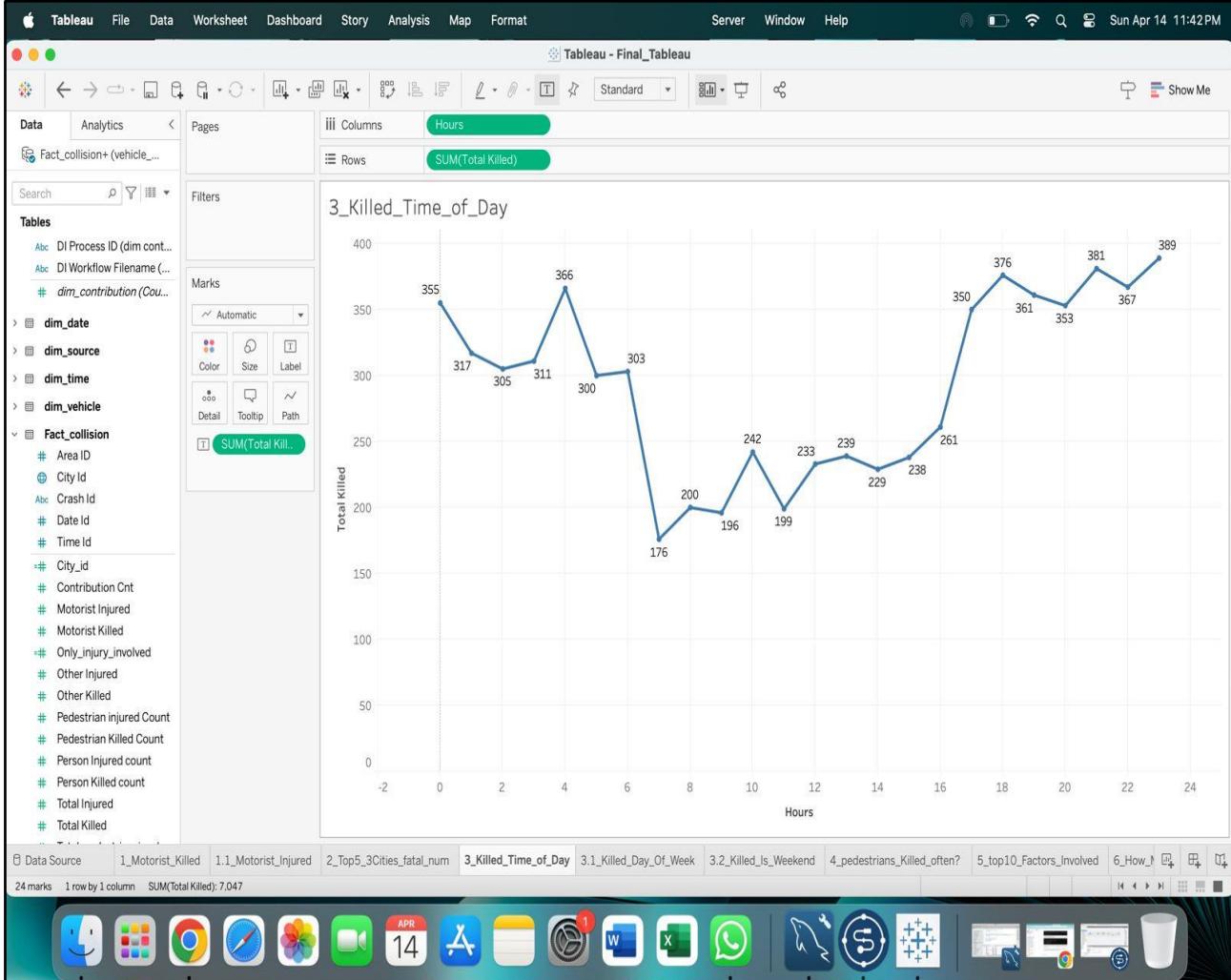
29
30 Zip_Code VARCHAR(20),
31 DI_Process_ID INT,
32 DI_Workflow_Filename VARCHAR(500),
33 DI_Create_Date TIMESTAMP,
34 FOREIGN KEY (City_ID) REFERENCES City_Dim(City_ID) -- Added foreign key reference to City_Dim
35 );
36
37 -- City_Dim Table
38 CREATE TABLE City_Dim (
39 City_ID INT AUTO_INCREMENT PRIMARY KEY,
40 City_Name VARCHAR(100),
41 DI_Process_ID INT,
42 DI_Workflow_Filename VARCHAR(500),
43 DI_Create_Date TIMESTAMP
44 );
45
46 -- Date_Dim Table
47 CREATE TABLE Date_Dim (
48 Date_ID INT AUTO_INCREMENT PRIMARY KEY,
49 Date DATE,
50 Year YEAR,
51 Month INT,
52 Season VARCHAR(500),
53 Is_Weekend BOOLEAN,
54 Quarter INT,
55 DI_Process_ID INT,
56 DI_Workflow_Filename VARCHAR(1000),
57 DI_Create_Date TIMESTAMP
58 );
59

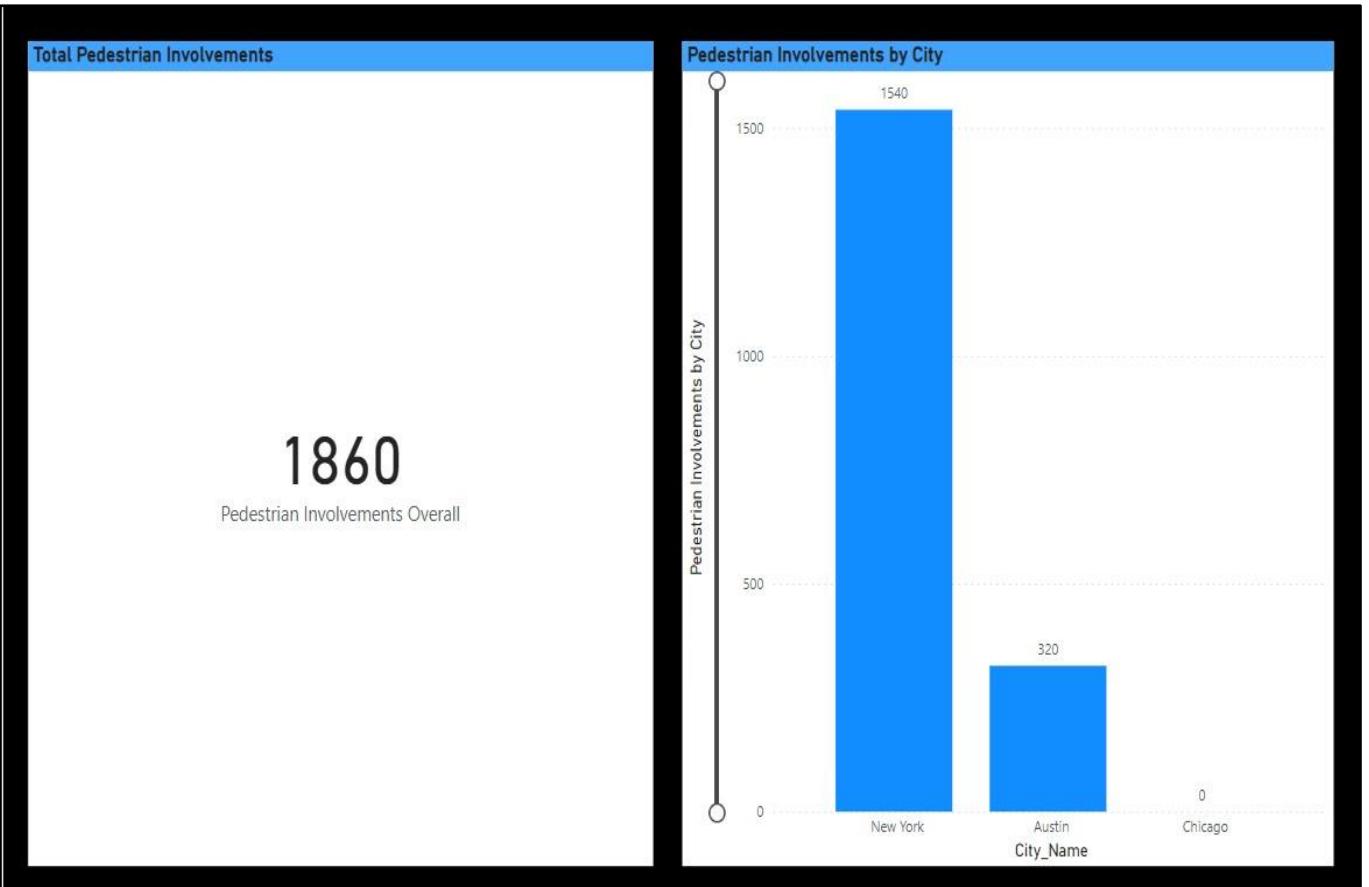
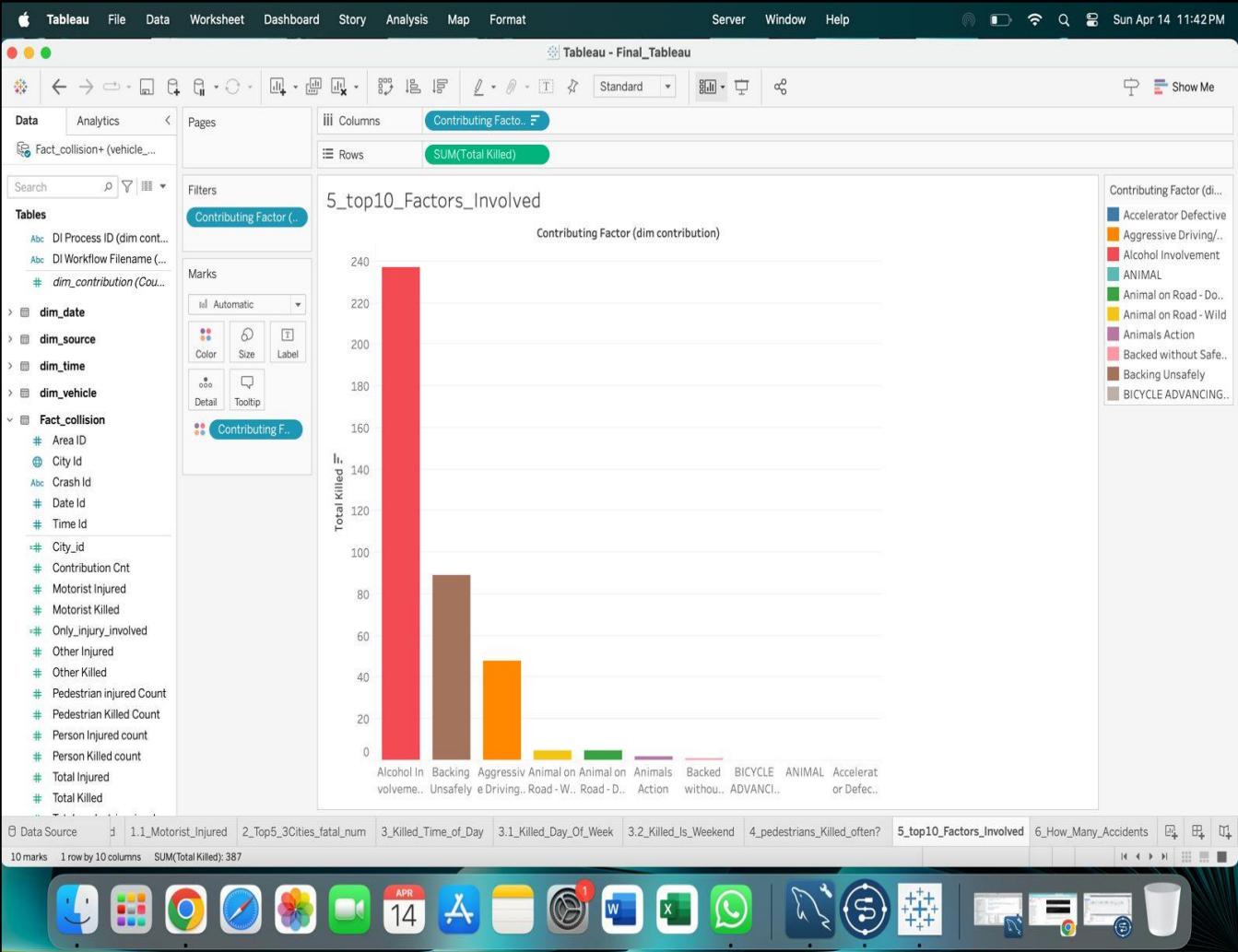
```

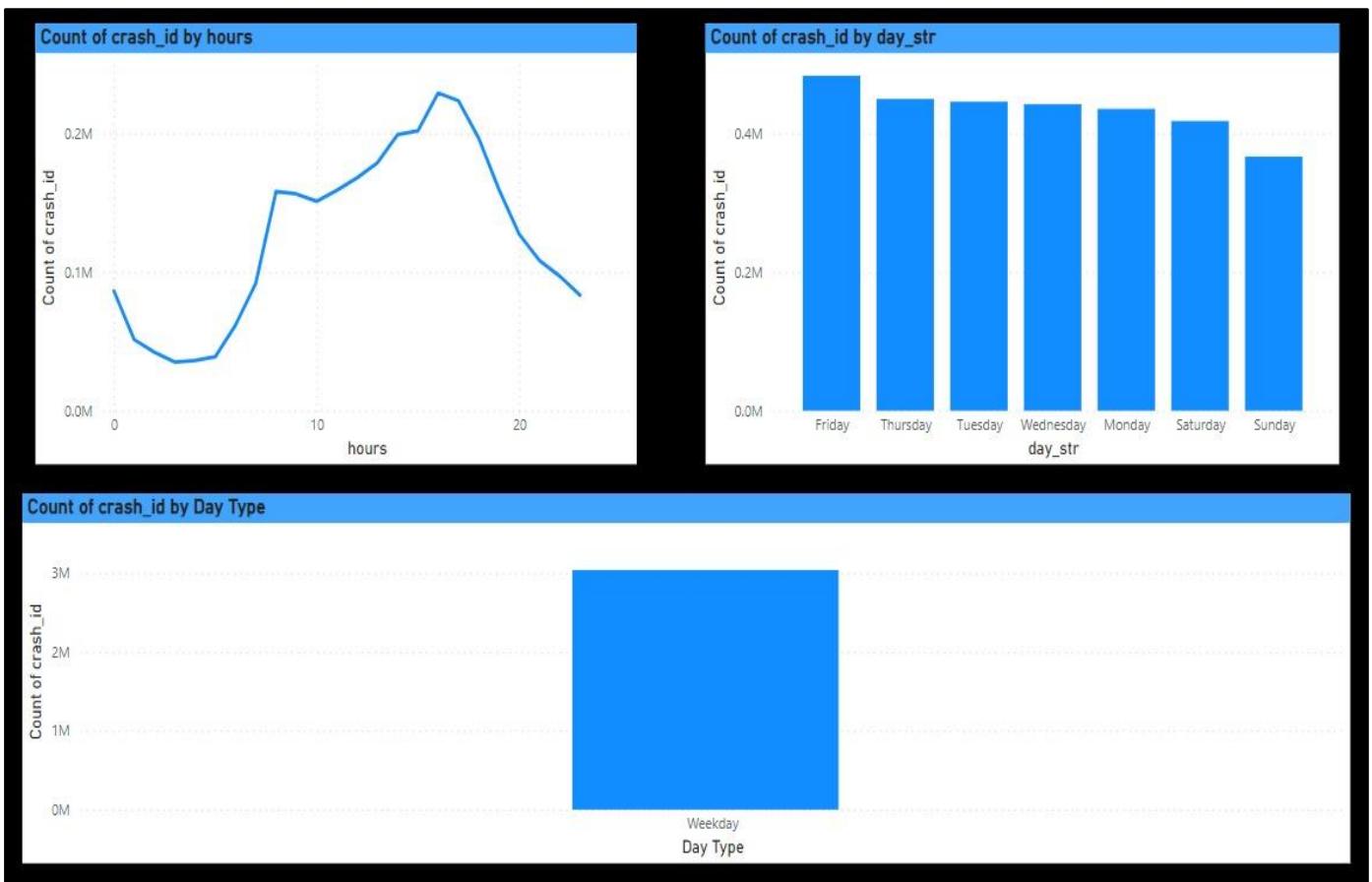
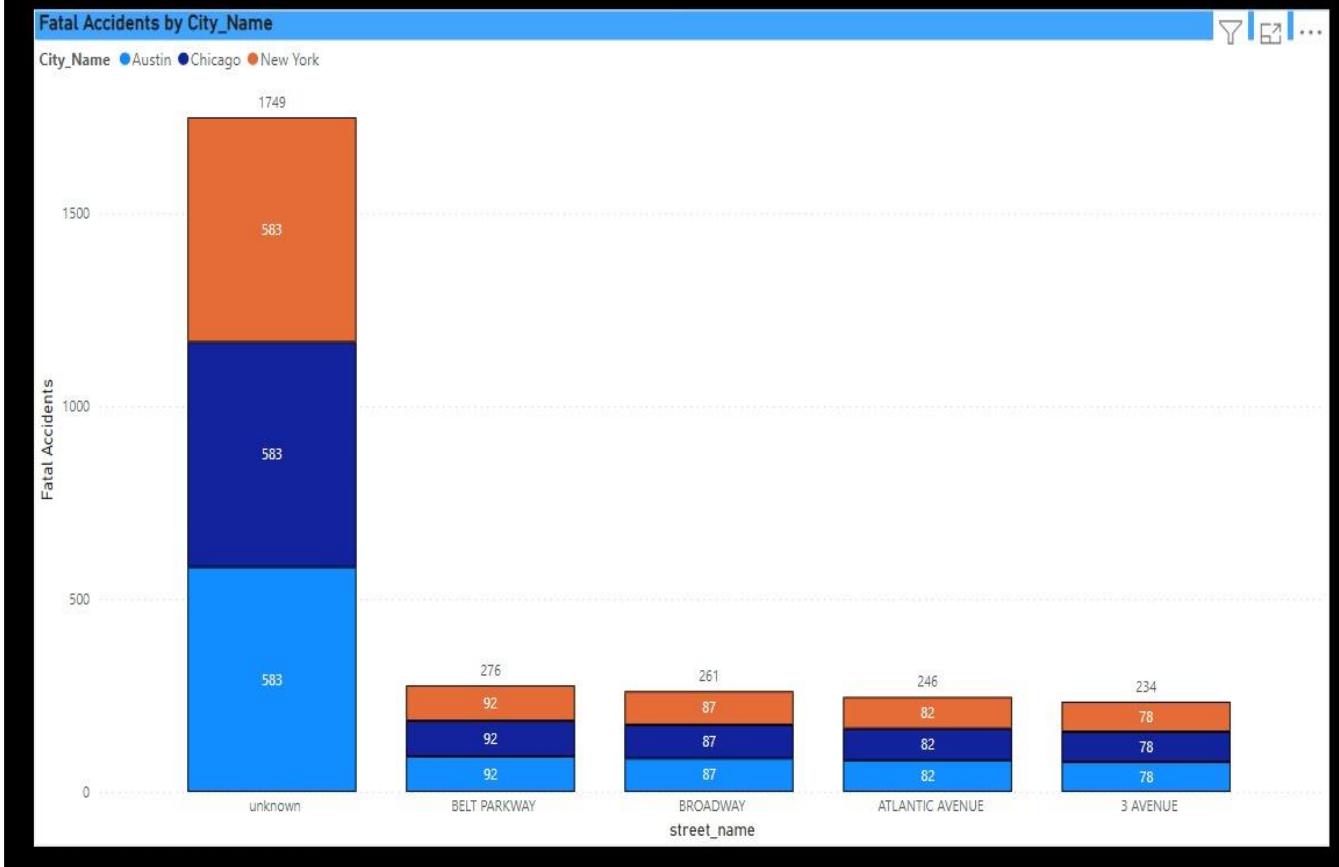
SQL script saved to '/Users/pratikkpoojari/Library/Containers/net.whatsapp.WhatsApp/Data/tmp/documents/70278F10-CE00-4F2E-8997-90FD17C708DA/final\_project\_schema.sql'

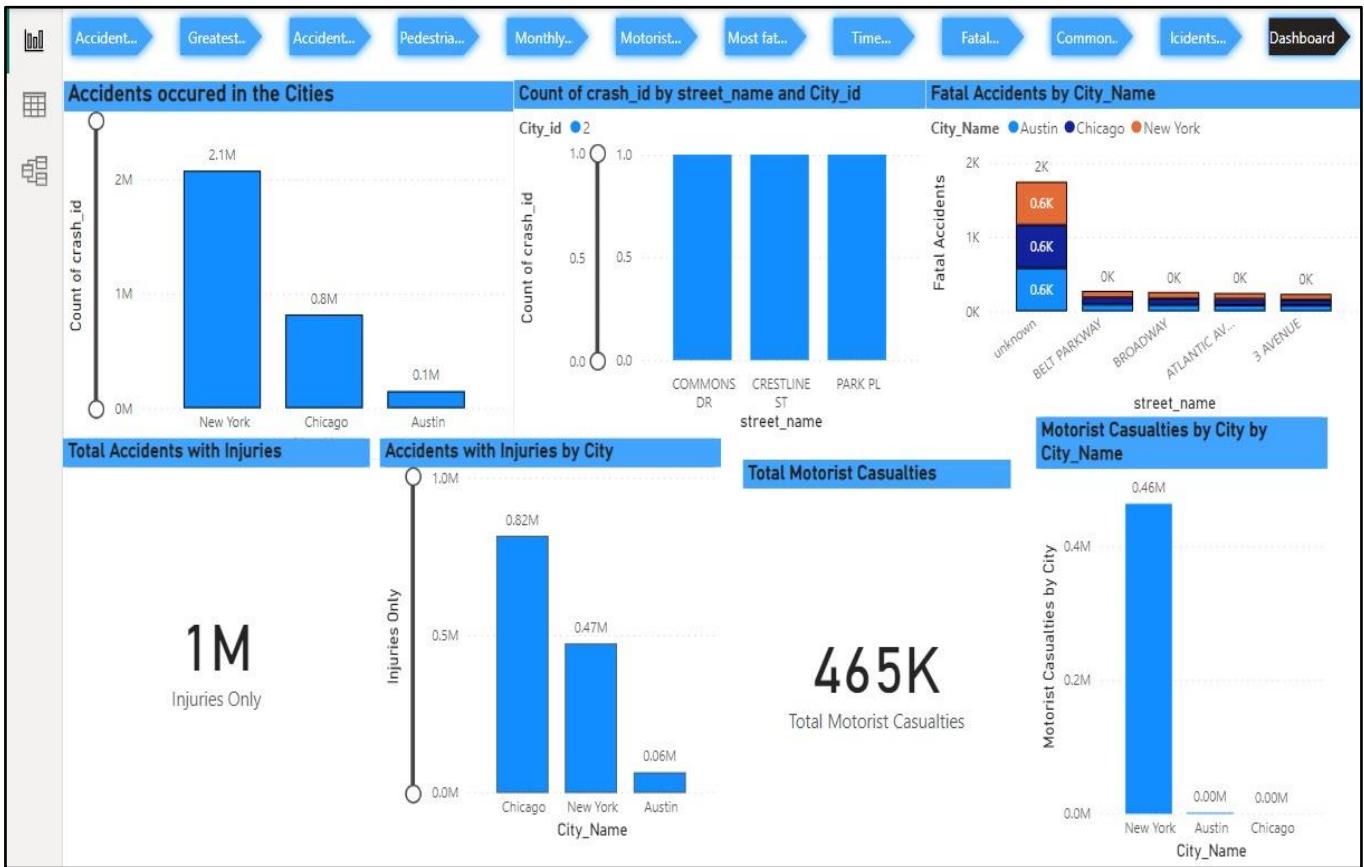
## Visualisations:











**Thank You**