

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

SQLQuery1.sql - M...ngxuejiaonew (53)

NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
--Metrics
--number of collisions
use Motor
SELECT COUNT(collision_id) AS [number of collisions]
FROM [dbo].[fct_collision_crashes];

--number of people injured or died
SELECT SUM(number_of_persons_injured) AS injured, SUM(number_of_persons_killed) AS died
FROM [dbo].[fct_collision_crashes];

--number of people by role, such as pedestrian, injured or died
SELECT SUM(number_of_cyclist_injured) AS [cyclist injured],
```

109 %

Results Messages

number of collisions
1945843

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) Motor | 00:00:00 | 1 rows

Activate Windows

Go to Settings to activate Windows.



Object Explorer

+	dbo.Dim_PED_LOCATION
+	dbo.Dim_PED_ROLE
+	dbo.Dim_PERSON_INJURY
+	dbo.Dim_PERSON_SEX
+	dbo.Dim_PersonType
+	dbo.Dim_POINT_OF_IMPACT
+	dbo.Dim_POSITION_IN_VEHICLE
+	dbo.Dim_PRE_CRASH
+	dbo.Dim_PUBLIC_PROPERTY_DAMAGE
+	dbo.Dim_SAFETY_EQUIPMENT
+	dbo.Dim_STATE_REGISTRATION
+	dbo.Dim_Travel_Direction
+	dbo.Dim_VEHICLE_DAMAGE
+	dbo.Dim_VEHICLE_MAKE
+	dbo.Dim_VEHICLE_MODEL
+	dbo.Dim_VEHICLE_TYPE
+	dbo.dim_vehicle_type_code
+	dbo.dim_vehicle_type_code2
+	dbo.ERR_Model_Year
+	dbo.fct_collision_crashes
+	dbo.fct_collision_crashes_vehicles
+	dbo.fct_collision_persons
+	dbo.fct_collision_persons_contributing_factor
+	dbo.fct_Collisions_Vehicles
+	dbo.fct_Collisions_Vehicles_Contributing_Factor
+	dbo.fct_Collisions_Vehicles_Vehicle_Damage
+	dbo.PersonContriFacCountByCollisionID
+	dbo.stg_nyc_mv_collision_persons
+	dbo.stg_nyc_mv_collision_vehicles
+	dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53)

NYC Motor Vehicle...ngxuejiaonew (52)*

nyc mv collisions...ongxuejiaonew (57)

```
--Time of day
SELECT collision_hour, COUNT(collision_id) AS [numbers of people]
FROM [dbo].[fct_collision_crashes]
GROUP BY collision_hour
ORDER BY collision_hour
```

```
--Vehicle types
```

```
SELECT dvt.VEHICLE_TYPE, COUNT(fcv.COLLISION_ID) AS [numbers of vehicle]
FROM [dbo].[fct_Collisions_Vehicles] fcv INNER JOIN [dbo].[Dim_VEHICLE_TYPE] dvt ON fcv.VEHICLE_TYPE_
```

```
--Collision causes
```

	VEHICLE_TYPE	numbers of vehicle
1	utili	1
2	USPS MAIL	6
3	limou	1
4	COURI	5
5	PC	18
6	seagr	1
7	CAB	2
8	MOVING VAN	1
9	OMT	18
10	ES	1
11	BULLDOZER	1
12	U.S. POSTA	1
13	armored tr	1
14	f-250	1
15	ESCOVATOR	1
16	FED	1
17	250-3	1
18	Sedan	859697

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) Motor 00:00:00 | 1,493 rows

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factors
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factors
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- + dbo.PersonContriFacCountByCollisionID
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- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53)) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57))

```
--Metrics  
--number of collisions  
use Motor  
SELECT COUNT(collision_id) AS [number of collisions]  
FROM [dbo].[fct_collision_crashes];  
  
--number of people injured or died  
SELECT SUM(number_of_persons_injured) AS injured, SUM(number_of_persons_killed) AS died  
FROM [dbo].[fct_collision_crashes];  
  
--number of people by role, such as pedestrian, injured or died  
SELECT SUM(number_of_cyclist_injured) AS [cyclist injured],
```

Results Messages

	injured	died
1	571084	2712

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 1 rows

Activate Windows

Ready

Ln 8 Col 1 Ch 1 INS Go to Settings to activate Windows.

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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Motor Execute

Object Explorer

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
--number of people by role, such as pedestrian, injured or died
SELECT SUM(number_of_cyclist_injured) AS [cyclist injured],
       SUM(number_of_cyclist_killed) AS [cyclist died],
       SUM(number_of_motorist_injured) AS [motorist injured],
       SUM(number_of_motorist_killed) AS [motorist died],
       SUM(number_of_pedestrians_injured) AS [pedestrians injured],
       SUM(number_of_pedestrians_killed) AS [pedestrians died],
       SUM(number_of_persons_killed) AS [persons died]
FROM [dbo].[fct_collision_crashes];
```

--number of vehicles involved

109 %

Results Messages

	cyclist injured	cyclist died	motorist injured	motorist died	pedestrians injured	pedestrians died	persons died
1	49213	200	412681	1101	104616	1378	2712

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 1 rows

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Object Explorer

+	dbo.Dim_PED_LOCATION
+	dbo.Dim_PED_ROLE
+	dbo.Dim_PERSON_INJURY
+	dbo.Dim_PERSON_SEX
+	dbo.Dim_PersonType
+	dbo.Dim_POINT_OF_IMPACT
+	dbo.Dim_POSITION_IN_VEHICLE
+	dbo.Dim_PRE_CRASH
+	dbo.Dim_PUBLIC_PROPERTY_DAMAGE
+	dbo.Dim_SAFETY_EQUIPMENT
+	dbo.Dim_STATE_REGISTRATION
+	dbo.Dim_Travel_Direction
+	dbo.Dim_VEHICLE_DAMAGE
+	dbo.Dim_VEHICLE_MAKE
+	dbo.Dim_VEHICLE_MODEL
+	dbo.Dim_VEHICLE_TYPE
+	dbo.dim_vehicle_type_code
+	dbo.dim_vehicle_type_code2
+	dbo.ERR_Model_Year
+	dbo.fct_collision_crashes
+	dbo.fct_collision_crashes_vehicles
+	dbo.fct_collision_persons
+	dbo.fct_collision_persons_contributing_factors
+	dbo.fct_Collisions_Vehicles
+	dbo.fct_Collisions_Vehicles_Contributing_Factors
+	dbo.fct_Collisions_Vehicles_Vehicle_Damage
+	dbo.PersonContriFacCountByCollisionID
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+	dbo.stg_nyc_mv_collision_vehicles
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SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
        SUM(number_of_pedestrians_injured) AS [pedestrians injured],
```

```
        SUM(number_of_pedestrians_killed) AS [pedestrians died],
```

```
        SUM(number_of_persons_killed) AS [persons died]
```

```
FROM [dbo].[fct_collision_crashes];
```

```
--number of vehicles involved
```

```
SELECT SUM(number_of_vehicles_involved) AS [number of vehicles]
```

```
FROM [dbo].[fct_collision_crashes];
```

```
--Dimensions
```

```
--Annual statistics
```

```
SELECT VEHICLE_YEAR AS years,COUNT(COLLISION_ID) AS [number of collisions]
```

109 %

Results Messages

number of vehicles
1 3703122

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) Motor | 00:00:00 | 1 rows

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NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContributorFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
SELECT SUM(number_of_vehicles_involved) AS [number of vehicles]
FROM [dbo].[fct_collision_crashes];

--Dimensions
--Annual statistics
SELECT VEHICLE_YEAR AS years,COUNT(COLLISION_ID) AS [number of collisions]
FROM [dbo].[fct_Collisions_Vehicles]
WHERE VEHICLE_YEAR>2000 AND VEHICLE_YEAR<2023
GROUP BY VEHICLE_YEAR
ORDER BY VEHICLE_YEAR
```

109 %

Results Messages

years	number of collisions
1	29256
2	37731
3	47756
4	55374
5	63532
6	70454
7	79973
8	75982
9	63314
10	71066
11	85545
12	95873
13	120950
14	143863
15	196159
16	197549
17	171328
18	108337

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 22 rows

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContriFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53)

NYC Motor Vehicle...ngxuejiaonew (52)*

nyc mv collisions...ongxuejiaonew (57)

```
ORDER BY VEHICLE_YEAR

--Time of day
SELECT collision_hour, COUNT(collision_id) AS [numbers of people]
FROM [dbo].[fct_collision_crashes]
GROUP BY collision_hour
ORDER BY collision_hour

--Vehicle types
SELECT dvt.VEHICLE_TYPE, COUNT(fcv.COLLISION_ID) AS [numbers of vehicle]
FROM [dbo].[fct_Collisions_Vehicles] fcv INNER JOIN [dbo].[Dim_VEHICLE_TYPE] dvt ON fcv.VEHICLE_TYPE = dvt.VEHICLE_TYPE
```

109 %

Results Messages

	collision_hour	numbers of people
1	0	168731
2	1	146030
3	2	156007
4	3	144143
5	4	166341
6	5	165286
7	6	163872
8	7	157357
9	8	189654
10	9	173625
11	10	160480
12	11	154317

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 12 rows



Object Explorer

+	dbo.Dim_PED_LOCATION
+	dbo.Dim_PED_ROLE
+	dbo.Dim_PERSON_INJURY
+	dbo.Dim_PERSON_SEX
+	dbo.Dim_PersonType
+	dbo.Dim_POINT_OF_IMPACT
+	dbo.Dim_POSITION_IN_VEHICLE
+	dbo.Dim_PRE_CRASH
+	dbo.Dim_PUBLIC_PROPERTY_DAMAGE
+	dbo.Dim_SAFETY_EQUIPMENT
+	dbo.Dim_STATE_REGISTRATION
+	dbo.Dim_Travel_Direction
+	dbo.Dim_VEHICLE_DAMAGE
+	dbo.Dim_VEHICLE_MAKE
+	dbo.Dim_VEHICLE_MODEL
+	dbo.Dim_VEHICLE_TYPE
+	dbo.dim_vehicle_type_code
+	dbo.dim_vehicle_type_code2
+	dbo.ERR_Model_Year
+	dbo.fct_collision_crashes
+	dbo.fct_collision_crashes_vehicles
+	dbo.fct_collision_persons
+	dbo.fct_collision_persons_contributing_factors
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+	dbo.fct_Collisions_Vehicles_Contributing_Factors
+	dbo.fct_Collisions_Vehicles_Vehicle_Damage
+	dbo.PersonContriFacCountByCollisionID
+	dbo.stg_nyc_mv_collision_persons
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SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
GROUP BY dvt.VEHICLE_TYPE;

--Collision causes
SELECT dim.CONTRIBUTING_FACTOR, COUNT(fct.UNIQUE_ID) AS numbers
FROM [dbo].[fct_Collisions_Vehicles_Contributing_Factors] fct INNER JOIN [dbo].[Dim_CONTRIBUTING_FACTORS] dim ON fct.CONTRIBUTING_FACTOR = dim.CONTRIBUTING_FACTOR
GROUP BY dim.CONTRIBUTING_FACTOR;

--Collision Analysis
SELECT dim.CONTRIBUTING_FACTOR, COUNT(fct.UNIQUE_ID) AS numbers
FROM [dbo].[fct_Collisions_Vehicles_Contributing_Factors] fct INNER JOIN [dbo].[Dim_CONTRIBUTING_FACTORS] dim ON fct.CONTRIBUTING_FACTOR = dim.CONTRIBUTING_FACTOR
GROUP BY dim.CONTRIBUTING_FACTOR
ORDER BY numbers DESC;
```

109 %

CONTRIBUTING_FACTOR	numbers
1 Lane Marking Improper/Inadequate	1935
2 Physical Disability	11909
3 Accelerator Defective	1232
4 Animals Action	1792
5 Traffic Control Device Improper/Non-Working	1512
6 Following Too Closely	163371
7 Reaction to Uninvolved Vehicle	26757
8 Fatigued/Drowsy	61152
9 Windshield Inadequate	101
10 Unsafe Lane Changing	66022
11 Pavement Defective	2986
12 Cell Phone (hand-Held)	1064
13 Shoulders Defective/Improper	149
14 Cell Phone (hands-free)	415
15 Traffic Control Disregarded	49714
16 Alcohol Involvement	24953
17 Driverless/Runaway Vehicle	1521
18 Pedestrian/Bicyclist/Other Pedestrian Error/Conf...	13058

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) Motor 00:00:00 | 59 rows

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NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

Quick Launch (Ctrl+Q)

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factors
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- + dbo.stg_nyc_mv_collision_vehicles
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SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
GROUP BY dvt.VEHICLE_TYPE;

--Collision causes
SELECT dim.CONTRIBUTING_FACTOR, COUNT(fct.UNIQUE_ID) AS numbers
FROM [dbo].[fct_Collisions_Vehicles_Contributing_Factors] fct INNER JOIN [dbo].[Dim_CONTRIBUTING_FACTORS] dim ON fct.CONTRIBUTING_FACTOR = dim.CONTRIBUTING_FACTOR
GROUP BY dim.CONTRIBUTING_FACTOR;

--Collision Analysis
SELECT dim.CONTRIBUTING_FACTOR, COUNT(fct.UNIQUE_ID) AS numbers
FROM [dbo].[fct_Collisions_Vehicles_Contributing_Factors] fct INNER JOIN [dbo].[Dim_CONTRIBUTING_FACTORS] dim ON fct.CONTRIBUTING_FACTOR = dim.CONTRIBUTING_FACTOR
GROUP BY dim.CONTRIBUTING_FACTOR
ORDER BY numbers DESC;
```

109 %

Results Messages

CONTRIBUTING_FACTOR	numbers
1 Unspecified	3760106
2 Driver Inattention/Distracted	554774
3 Following Too Closely	163371
4 Failure to Yield Right-of-Way	157044
5 Other Vehicular	111795
6 Backing Unsafely	88926
7 Passing or Lane Usage Improper	84684
8 Passing Too Closely	72821
9 Turning Improperly	69880
10 Unsafe Lane Changing	66022
11 Fatigued/Drowsy	61152
12 Driver Inexperience	58333
13 Traffic Control Disregarded	49714
14 Unsafe Speed	43730
15 Pavement Slippery	30541
16 Reaction to Uninvolved Vehicle	26757
17 Lost Consciousness	26275
18 Alcohol Involvement	24953

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 59 rows

Activate Windows

Ln 51 Col 1 Ch 1 INS

Ready Go to Settings to activate Windows.

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
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- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factors
- + dbo.fct_Collisions_Vehicles
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- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
FROM [dbo].[fct_Collisions_Vehicles_Contributing_Factors] fct INNER JOIN [dbo].[Dim_CONTRIBUTING_FACT]
```

```
GROUP BY dim.CONTRIBUTING_FACTOR
ORDER BY numbers DESC;
```

```
--Time Series Analysis
--analysis by hour
SELECT collision_hour, COUNT(collision_id) AS [numbers of people]
FROM [dbo].[fct_collision_crashes]
GROUP BY collision_hour
ORDER BY [numbers of people] DESC;
```

```
--analysis by day of the week
```

109 %

Results Messages

	collision_hour	numbers of people
1	8	189654
2	9	173625
3	0	168731
4	4	166341
5	5	165286
6	6	163872
7	10	160480
8	7	157357
9	2	156007
10	11	154317
11	1	146030
12	3	144143

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 12 rows

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NYC Motor Vehicles (MV) Collisions bussiness question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContriFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
SELECT collision_hour, COUNT(collision_id) AS [numbers of people]
FROM [dbo].[fct_collision_crashes]
GROUP BY collision_hour
ORDER BY [numbers of people] DESC;

--analysis by day of the week
SELECT collision_dayoftheweek AS WeekDays, COUNT(collision_id) AS [numbers of people]
FROM [dbo].[fct_collision_crashes]
GROUP BY collision_dayoftheweek
ORDER BY [numbers of people] DESC;

--Fatality Analysis
```

109 %

Results Messages

WeekDays	numbers of people
1	310680
2	291429
3	287217
4	284911
5	278237
6	261350
7	232019

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 7 rows

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NYC Motor Vehicles (MV) Collisions bussiness question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContriFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
ORDER BY [numbers of people] DESC;

--Fatality Analysis
SELECT SUM(number_of_cyclist_injured) AS [cyclist injured],
       SUM(number_of_cyclist_killed) AS [cyclist died],
       SUM(number_of_motorist_injured) AS [motorist injured],
       SUM(number_of_motorist_killed) AS [motorist died],
       SUM(number_of_pedestrians_injured) AS [pedestrians injured],
       SUM(number_of_pedestrians_killed) AS [pedestrians died],
       SUM(number_of_persons_killed) AS [persons died]
FROM [dbo].[fct_collision_crashes];
```

109 %

Results Messages

	cyclist injured	cyclist died	motorist injured	motorist died	pedestrians injured	pedestrians died	persons died
1	49213	200	412681	1101	104616	1378	2712

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 1 rows

Activate Windows

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NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
        SUM(number_of_persons_killed) AS [persons died]
        FROM [dbo].[fct_collision_crashes];

--Which Boroughs in New York City Have the Most Accidents?
SELECT borough, COUNT(collision_id) AS [times]
FROM [dbo].[fct_collision_crashes]
GROUP BY borough
ORDER BY [times] DESC;

--How Many NYC Car Accidents Result in an Injury?
SELECT COUNT(collision_id) AS [times]
```

109 %

Results Messages

	borough	times
1	NULL	604081
2	BROOKLYN	424132
3	QUEENS	359363
4	MANHATTAN	304740
5	BRONX	197189
6	STATEN ISLAND	56338

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 6 rows



Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContriFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53)) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57))

```
FROM [dbo].[fct_collision_crashes]
GROUP BY borough
ORDER BY [times] DESC;

--How Many NYC Car Accidents Result in an Injury?
SELECT COUNT(collision_id) AS [times]
FROM [dbo].[fct_collision_crashes]
WHERE number_of_cyclist_injured > 0 OR
      number_of_motorist_injured > 0 OR
      number_of_pedestrians_injured > 0;

--Which NYC Borough Has the Most Fatal Car Accidents?
```

109 %

Results

times
1 416514

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) | Motor | 00:00:00 | 1 rows

Activate Windows

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NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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Object Explorer

+	dbo.Dim_PED_LOCATION
+	dbo.Dim_PED_ROLE
+	dbo.Dim_PERSON_INJURY
+	dbo.Dim_PERSON_SEX
+	dbo.Dim_PersonType
+	dbo.Dim_POINT_OF_IMPACT
+	dbo.Dim_POSITION_IN_VEHICLE
+	dbo.Dim_PRE_CRASH
+	dbo.Dim_PUBLIC_PROPERTY_DAMAGE
+	dbo.Dim_SAFETY_EQUIPMENT
+	dbo.Dim_STATE_REGISTRATION
+	dbo.Dim_Travel_Direction
+	dbo.Dim_VEHICLE_DAMAGE
+	dbo.Dim_VEHICLE_MAKE
+	dbo.Dim_VEHICLE_MODEL
+	dbo.Dim_VEHICLE_TYPE
+	dbo.dim_vehicle_type_code
+	dbo.dim_vehicle_type_code2
+	dbo.ERR_Model_Year
+	dbo.fct_collision_crashes
+	dbo.fct_collision_crashes_vehicles
+	dbo.fct_collision_persons
+	dbo.fct_collision_persons_contributing_factor
+	dbo.fct_Collisions_Vehicles
+	dbo.fct_Collisions_Vehicles_Contributing_factor
+	dbo.fct_Collisions_Vehicles_Vehicle_Damage
+	dbo.PersonContriFacCountByCollisionID
+	dbo.stg_nyc_mv_collision_persons
+	dbo.stg_nyc_mv_collision_vehicles
+	dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53)) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57))

number_of_pedestrians_injured > 0;

--Which NYC Borough Has the Most Fatal Car Accidents?

```
SELECT borough, COUNT(collision_id) AS [times]
FROM [dbo].[fct_collision_crashes]
where (number_of_cyclist_killed > 0 OR
       number_of_motorist_killed > 0 OR
       number_of_pedestrians_killed > 0 OR
       number_of_persons_killed > 0) AND
     borough IS NOT NULL
GROUP BY borough
ORDER BY [times] DESC;
```

109 %

Results Messages

	borough	times
1	BROOKLYN	536
2	QUEENS	444
3	MANHATTAN	283
4	BRONX	235
5	STATEN ISLAND	80

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) Motor 00:00:00 | 5 rows

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NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- dbo.Dim_PED_LOCATION
- dbo.Dim_PED_ROLE
- dbo.Dim_PERSON_INJURY
- dbo.Dim_PERSON_SEX
- dbo.Dim_PersonType
- dbo.Dim_POINT_OF_IMPACT
- dbo.Dim_POSITION_IN_VEHICLE
- dbo.Dim_PRE_CRASH
- dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- dbo.Dim_SAFETY_EQUIPMENT
- dbo.Dim_STATE_REGISTRATION
- dbo.Dim_Travel_Direction
- dbo.Dim_VEHICLE_DAMAGE
- dbo.Dim_VEHICLE_MAKE
- dbo.Dim_VEHICLE_MODEL
- dbo.Dim_VEHICLE_TYPE
- dbo.dim_vehicle_type_code
- dbo.dim_vehicle_type_code2
- dbo.ERR_Model_Year
- dbo.fct_collision_crashes
- dbo.fct_collision_crashes_vehicles
- dbo.fct_collision_persons
- dbo.fct_collision_persons_contributing_factors
- dbo.fct_Collisions_Vehicles
- dbo.fct_Collisions_Vehicles_Contributing_Factors
- dbo.fct_Collisions_Vehicles_Vehicle_Damage
- dbo.PersonContriFacCountByCollisionID
- dbo.stg_nyc_mv_collision_persons
- dbo.stg_nyc_mv_collision_vehicles
- dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53)) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57))

```
borough IS NOT NULL
GROUP BY borough
ORDER BY [times] DESC;

--When Do Most New York City Car Accidents Happen?
SELECT collision_hour, COUNT(collision_id) AS [numbers of people]
FROM [dbo].[fct_collision_crashes]
GROUP BY collision_hour
ORDER BY COUNT(collision_id)

--How Common Are Bicycle Accidents in NYC?
SELECT COUNT(c.collision_id) AS [times]
```

109 %

Results Messages

	collision_hour	numbers of people
1	3	144143
2	1	146030
3	11	154317
4	2	156007
5	7	157357
6	10	160480
7	6	163872
8	5	165286
9	4	166341
10	0	168731
11	9	178625
12	8	189654

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 12 rows

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

Motor Execute

Object Explorer

Connect

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContriFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
--How Common Are Bicycle Accidents in NYC?  
SELECT COUNT(c.collision_id) AS [times]  
FROM [dbo].[fct_collision_crashes] c  
LEFT OUTER JOIN [dbo].[fct_Collisions_Vehicles] v  
ON c.collision_id = v.COLLISION_ID  
LEFT OUTER JOIN dbo.Dim_VEHICLE_TYPE vt  
ON v.VEHICLE_TYPE_SK = vt.VEHICLE_TYPE_SK  
where vt.VEHICLE_TYPE = 'BICYCLE'  
  
--How Many Motorcyclists are Injured or Killed in NYC Accidents?
```

109 %

Results Messages

times
19333

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 1 rows

NYC Motor Vehicles (MV) Collisions business question_SQL Queries.sql - MYWATERCOLOF781.Motor (dongxuejiaonew (52))* - Microsoft SQL Server Management Studio

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New Query MDX XMLA DAX

Motor Execute

Object Explorer

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
LEFT OUTER JOIN dbo.Dim_VEHICLE_TYPE vt
ON v.VEHICLE_TYPE_SK = vt.VEHICLE_TYPE_SK
where vt.VEHICLE_TYPE = 'BICYCLE'

--How Many Motorcyclists are Injured or Killed in NYC Accidents?
SELECT SUM(number_of_motorist_injured) + SUM(number_of_motorist_killed) AS people
FROM [dbo].[fct_collision_crashes];

--Are Trucks Involved in Many New York Accidents?
SELECT COUNT(fcv.COLLISION_ID) AS [numbers of Trucks Involved]
FROM [dbo].[fct_Collisions_Vehicles] fcv LEFT OUTER JOIN [dbo].[Dim_VEHICLE_TYPE] dvt ON fcv.VEHICLE_TYPE_SK = dvt.VEHICLE_TYPE_SK
where dvt.VEHICLE_TYPE = 'TRUCK'
```

109 %

Results Messages

people
1 413782

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) dongxuejiaonew (52) Motor 00:00:00 | 1 rows



Object Explorer

Connect ▾

- + dbo.Dim_PED_LOCATION
- + dbo.Dim_PED_ROLE
- + dbo.Dim_PERSON_INJURY
- + dbo.Dim_PERSON_SEX
- + dbo.Dim_PersonType
- + dbo.Dim_POINT_OF_IMPACT
- + dbo.Dim_POSITION_IN_VEHICLE
- + dbo.Dim_PRE_CRASH
- + dbo.Dim_PUBLIC_PROPERTY_DAMAGE
- + dbo.Dim_SAFETY_EQUIPMENT
- + dbo.Dim_STATE_REGISTRATION
- + dbo.Dim_Travel_Direction
- + dbo.Dim_VEHICLE_DAMAGE
- + dbo.Dim_VEHICLE_MAKE
- + dbo.Dim_VEHICLE_MODEL
- + dbo.Dim_VEHICLE_TYPE
- + dbo.dim_vehicle_type_code
- + dbo.dim_vehicle_type_code2
- + dbo.ERR_Model_Year
- + dbo.fct_collision_crashes
- + dbo.fct_collision_crashes_vehicles
- + dbo.fct_collision_persons
- + dbo.fct_collision_persons_contributing_factor
- + dbo.fct_Collisions_Vehicles
- + dbo.fct_Collisions_Vehicles_Contributing_Factor
- + dbo.fct_Collisions_Vehicles_Vehicle_Damage
- + dbo.PersonContriFacCountByCollisionID
- + dbo.stg_nyc_mv_collision_persons
- + dbo.stg_nyc_mv_collision_vehicles
- + dbo.stg_nyc_mv_collisions_BigQuery

SQLQuery1.sql - M...ngxuejiaonew (53) NYC Motor Vehicle...ngxuejiaonew (52)* nyc mv collisions...ongxuejiaonew (57)

```
SELECT SUM(number_of_motorist_injured) + SUM(number_of_motorist_killed) AS people
FROM [dbo].[fct_collision_crashes];

--Are Trucks Involved in Many New York Accidents?
SELECT COUNT(fcv.COLLISION_ID) AS [numbers of Trucks Involved]
FROM [dbo].[fct_Collisions_Vehicles] fcv LEFT OUTER JOIN [dbo].[Dim_VEHICLE_TYPE] dvt ON fcv.VEHICLE_TYPE = dvt.VEHICLE_TYPE
WHERE dvt.VEHICLE_TYPE = 'TRUCK';
```

109 %

Results Messages

	numbers of Trucks Involved
1	414

Query executed successfully.

MYWATERCOLOF781 (15.0 RTM) | dongxuejiaonew (52) Motor | 00:00:00 | 1 rows

Activate Windows

Go to Settings to activate Windows.