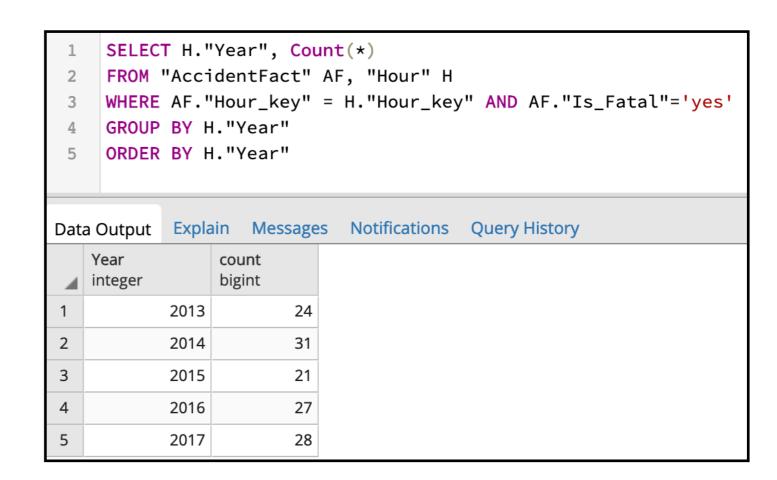
## I. Basic Drill Down, Roll Up

- ► Total fatalities in Ottawa over the four years.
- ► Drilled down, yearly. (Right)
- ► Drilled down, monthly.
- Accidents during Icy conditions in December 2015. (Below)



```
SELECT H."Year", H."Month", COUNT(*)

FROM "AccidentFact" AF, "Accident" AC, "Hour" H, "Weather" W

WHERE AF. "Accident_key" = AC. "Accident_key" AND AF. "Hour_key" = H. "Hour_key" AND AF. "Weather_key" = W. "Weather_key"

AND (AC. "Road_surface" = 'Ice' OR W. "Visibility" LIKE '%Ice%') AND H. "Year" = 2015 AND H. "Month" = 12

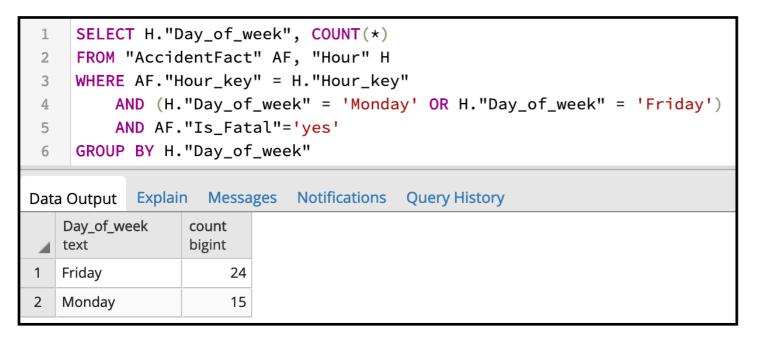
Data Output Explain Messages Notifications Query History

Year Month count integer integer bigint

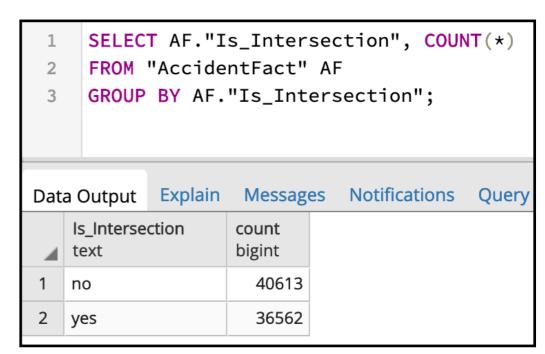
1 2015 12 49
```

## II. Drill Down, Roll Up, Slice And Dice

- ► Total/fatal accidents on weekends v. week days.
- Total number of accidents on holidays
   v. non-holidays.



► **Dice** total/fatal accidents on Mondays compared to Fridays.

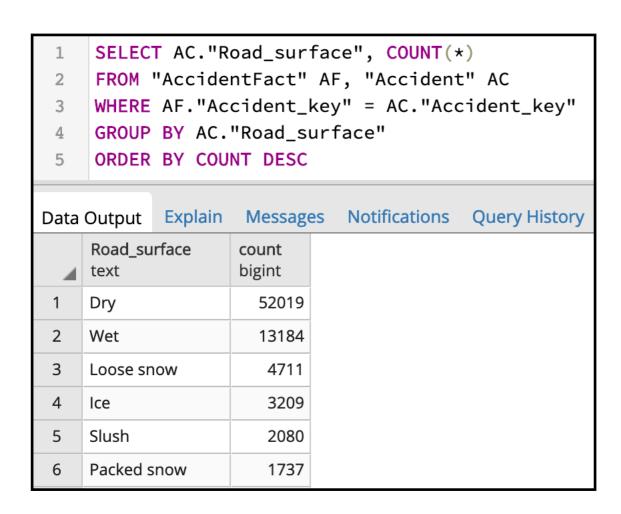


```
SELECT AF."Is_Intersection", COUNT(*)
FROM "AccidentFact" AF
WHERE AF."Is_Fatal"='yes'
GROUP BY AF."Is_Intersection";

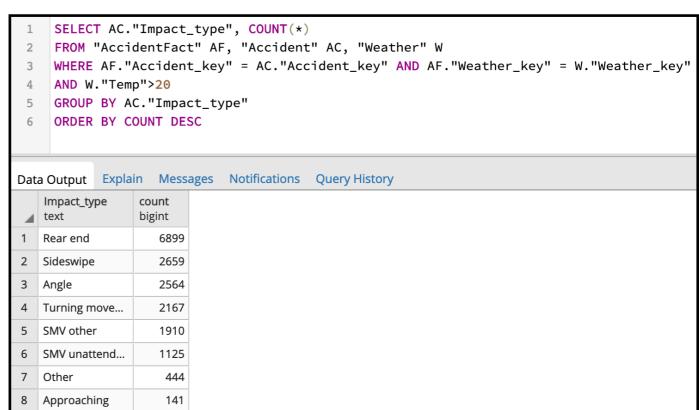
Data Output Explain Messages Notifications Query
Is_Intersection count bigint
1 no 51
2 yes 80
```

► Total/fatal accidents at intersections

## III. Interplay Between Conditions And Accidents



Interplay between road surface and number of accidents.



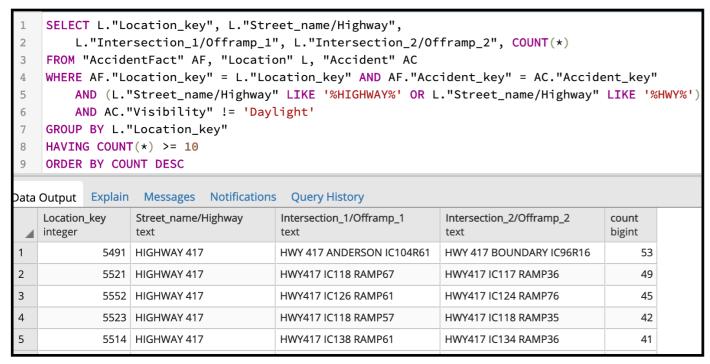
Interplay between warm temperatures and types of accidents.

## IV. Accident "Hot Spots"

- Most accident prone intersections in Autumn.
- Most accident prone intersections at dusk.



Top accident prone intersections overall in four years.



 Highway sections with highest accident count in Autumn/with poor visibility

- Highway sections with highest accident count.
- ► Highway sections with highest accident count in Autumn.
- Highway sections with highest accident count during poor visibility