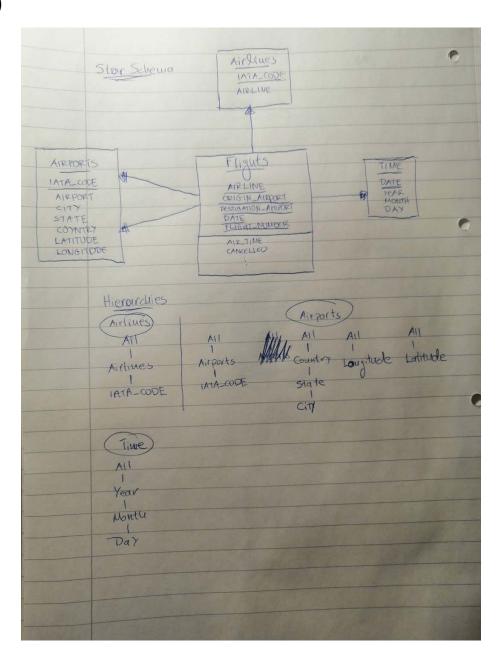
# DATA WAREHOUSING AND DATA MINING PROJECT 1

**TEAM 98** 

1)



2)

- The drill-down is performed over All to air\_time level. Slice operation on the hierarchy Time for a single dimension air\_time= MAX
- 2) The drill-down is performed over All to elapsed\_time level on the Time hierarchy.

The drill-down is performed over All to airlines level on the Airlines hierarchy.

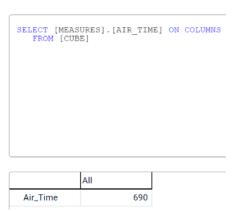
Slice operation on the hierarchy Time for a single dimension elapsed\_time= AVG

- 3) The drill-down is performed over All to flight\_number level.

  Slice operation on the hierarchy Date for a single dimension Month=
  Feb.
- 4) The drill-down is performed over All to Month level.
  The drill-down is performed over All to Airport level.
  Dice operation for dimension Cancelled= 0 and
  COUNT(flight\_number)= MAX
- 5) The drill-down is performed over All to Month level. Slice operation for a single dimension Distance= COUNT.

3)

#### **REPORT 1:**



#### **REPORT 2:**

```
SELECT [MEASURES].[ELAPSED TIME] ON COLUMNS [AIRLINES].[AIRLINES].[AIRLINES] ON ROWS FROM [CUBE]
```

|                  | Elapsed_Time   |  |
|------------------|----------------|--|
| > United Air Li  | 191.0209334133 |  |
| > American Ai    | 171.6737130932 |  |
| > US Airways     | 151.4722267553 |  |
| > Frontier Airli | 154.0158112624 |  |
| > JetBlue Air    | 170.5659478117 |  |
| > Skywest Airli  | 99.74338521129 |  |
| > Alaska Airlin  | 179.2018823068 |  |
| > Spirit Air Lin | 158.6128705440 |  |

### **REPORT 3:**

```
SELECT [MEASURES].[TOTAL_FLIGHTS] ON COLUMNS FROM [CUBE]
WHERE ([TIME].[TIME].[MONTH].&[2015-02])
```

|               | 2015 Feb |  |
|---------------|----------|--|
| Total_Flights | 407663   |  |

### **REPORT 4:**

```
SELECT [MEASURES].[TOTAL FLIGHTS] ON COLUMNS
[TIME].[TIME].[MONTH] * TOPCOUNT (ORDER [AIRPORTS].[AIRPORTS].[IATA_CODE],
[MEASURES].[TOTAL_FLIGHTS], DESC), 1) ON ROWS
FROM [CUBE]
```

|            |     | Total_Flights |
|------------|-----|---------------|
| > 2015 Jan | ATL | 29172         |
| > 2015 Feb | ATL | 26343         |
| > 2015 Mar | ATL | 32454         |
| > 2015 Apr | ATL | 3310          |

## **REPORT 5:**

SELECT (MEASURES), [DISTANCE COVERED] ON COLUMNS
ORDER ([TIME], [TIME], [MONTH], [MEASURES], [DISTANCE COVERED], DESC) ON ROWS
FROM [COME]

|            | Distance_Cove_ |
|------------|----------------|
| > 2015 Mar | 411546494      |
| > 2015 Jan | 377507097      |
| > 2015 Feb | 343689908      |
| > 2015 Apr | 41744774       |
|            |                |