

BIG DATA ANALYTICS

(BUAN 6346.002)

TRUCK DRIVER RISK FACTOR ANALYSIS



Team Members

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Problem Statement and Objective



Problem Statement :



To ensure that the compliance rules and regulations of ANT company are met by all the drivers of the corporation and no insurance risk is presented due to factors such as unsafe following, speeding or any other unsafe driving practices.



Objective :



To analyze ANT company truck drivers and truck travel history data using Tableau with the aim to forecast and predict any future risks as well as recommend useful and necessary actions.

Workflow

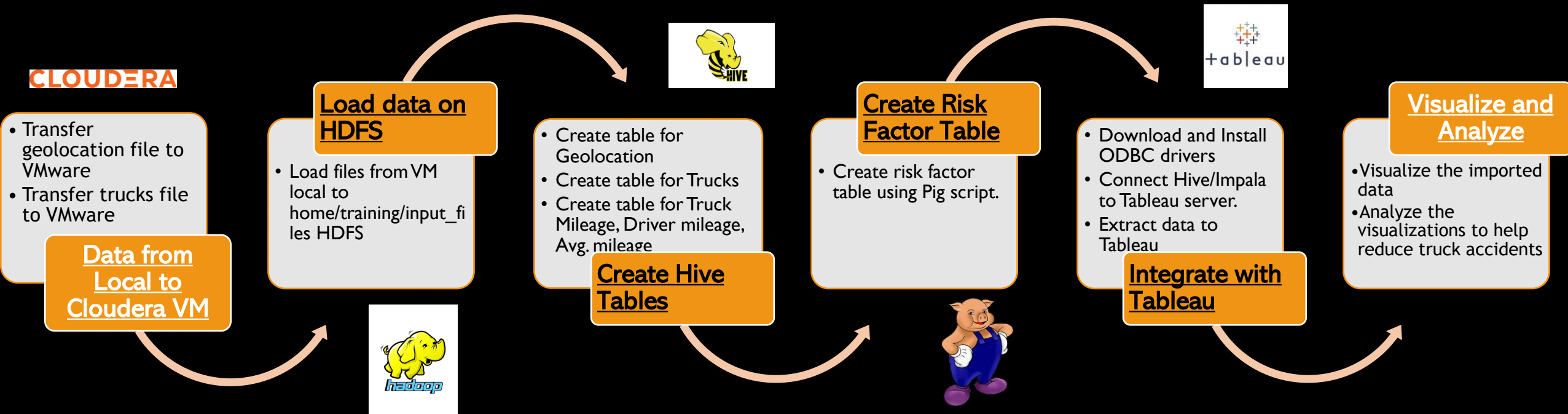


Tableau Visualization

- Key Insights:
- Figure out top 10 risky drivers
- Miles covered by them in a particular period
- Events under which a particular driver is risky or safe
- Cities covered by a particular driver being risky or safe

- DriverID: A10
- Rdate: May 10
- Miles: 15,542
- Events: lane departure, normal, overspeed, unsafe following distance
- Risky Cities: Kneeland, Willits, San Quentin, Palo Alto, Isleton, Stockton, Goleta, Santa Paula, La Puente, San Dimas, Apple Valley

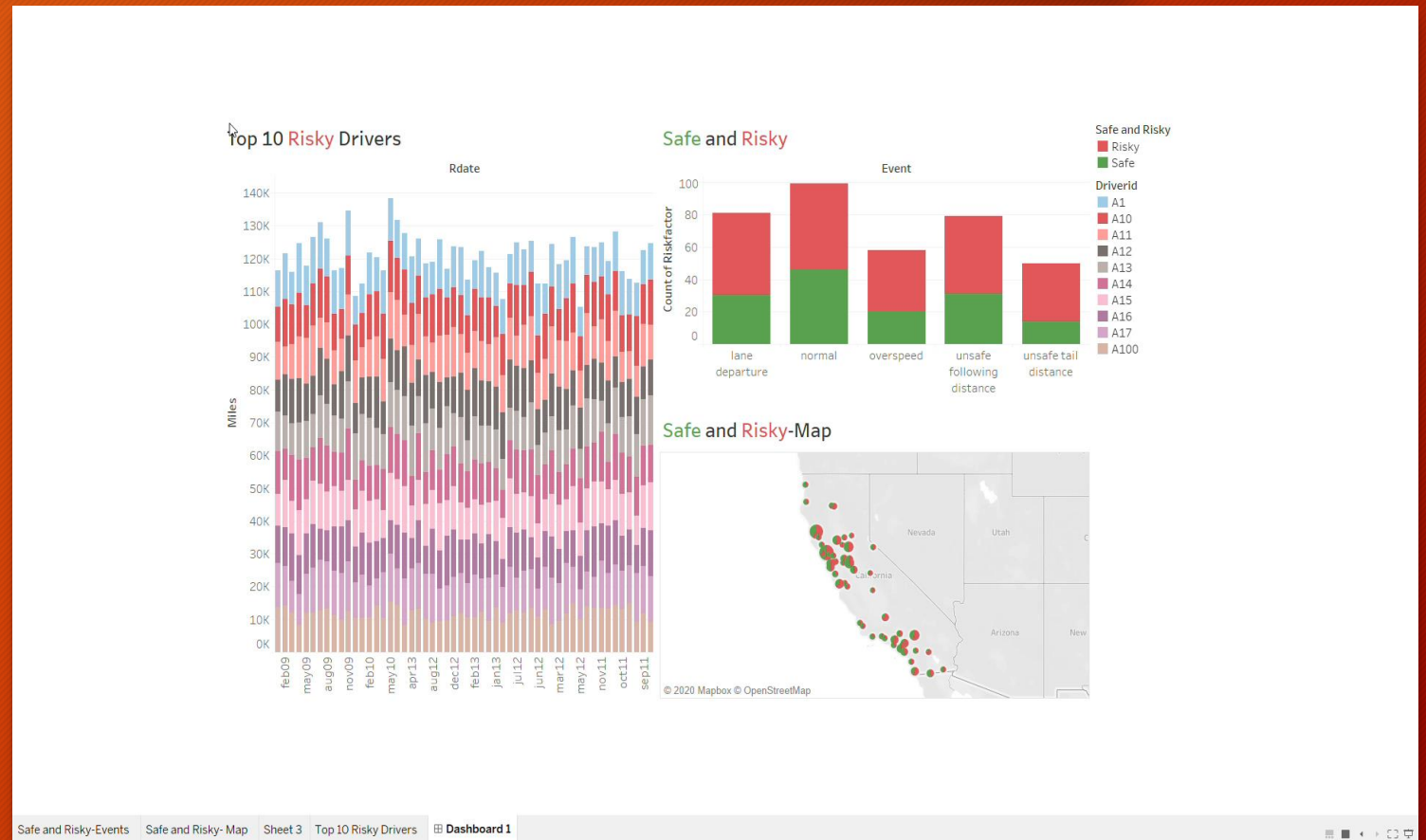
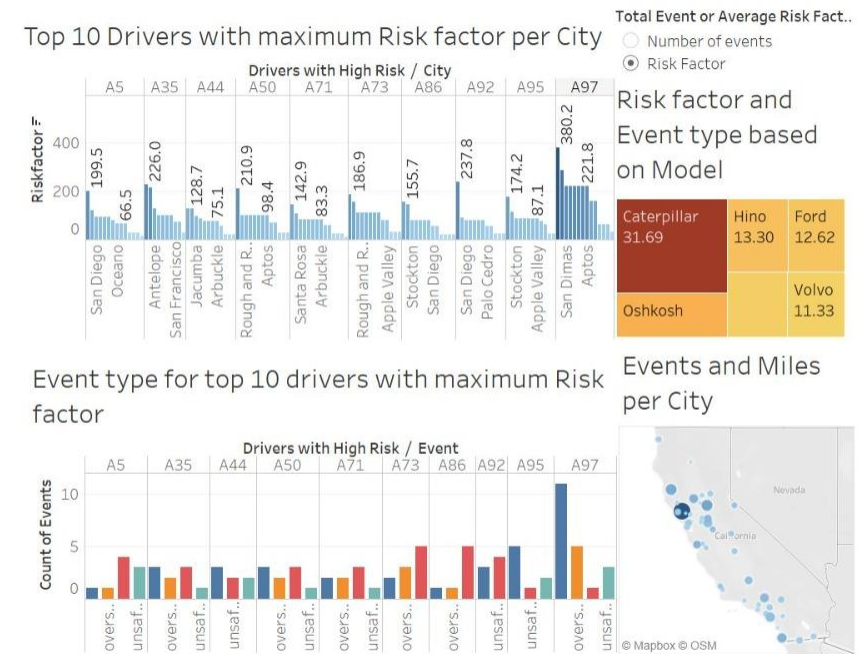


Tableau Visualization

- Key Insights:
 - Caterpillar trucks are the riskiest.
 - Unsafe following distance and Lane departures cause the most accidents, accounting for over 65% of the cases.
 - North California has more accidents as compared to South Caifornia.



Thank
You!!

