

# Data Warehouse Design and Analysis for MonEquip

## Enabling Business Intelligence for Equipment Sales & Hire

### Objective

#### ✓ Goal

Design and implement a data warehouse for MonEquip to support BI reporting and trend analysis.



### Data Cleaning Process

Check	Number of Issues Found	Action Taken
Data Duplication	2	Created new table with distinct rows; Removed duplicated rows
Invalid Foreign Keys	3	Removed rows with invalid references
Inconsistent Values	2	Standardized categorical values; Removed rows with invalid numerical values
Incorrect Values	2	Removed rows with wrong data entries
Null Values	1	Removed rows with 'null' string

### Descriptive Analysis

**\$11,583,050**  
2020 Total Sales Revenue

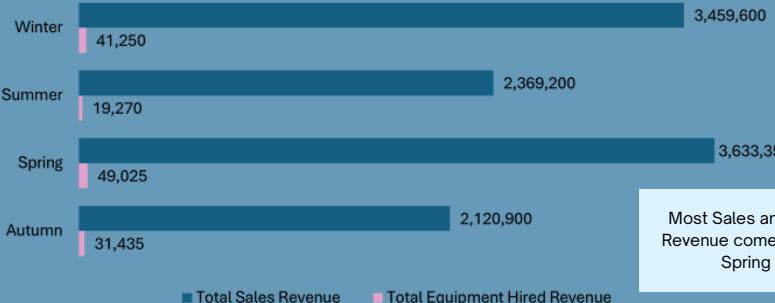
**↑ \$8,396,650**  
**↑ 263.52%**  
From End Of 2018:  
\$3,186,400

**97.3%**  
of Total Sales Revenue  
were generated from  
**HIGH SALES**

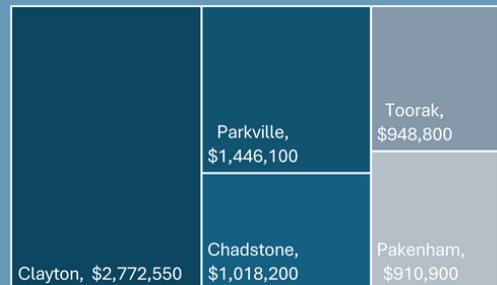
**\$140,980**  
2020 Total Hire Revenue

**↑ \$95,370**  
**↑ 209.10%**  
From End Of 2018:  
\$45,610

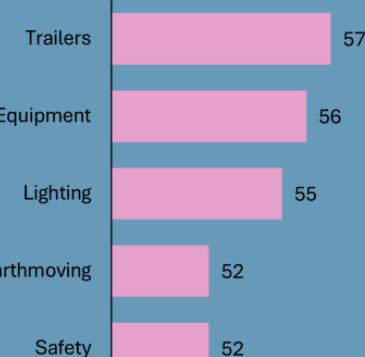
### Total Revenue by Season



### Top 5 Company Branch with Highest Total Sales Revenue



### Top 5 Most Hired Equipment Category



### Average Revenue By Customer Type

