Homework Grading Report

Student Name:	Sydney Thedin
Assignment:	Assignment 1 - Introduction to R
Graded On:	October 03, 2025 at 05:09 PM
Final Score:	34.6 / 37.5 points (92.3%)

Score Summary

Overall Performance: Excellent (92.3%)

Instructor Assessment

Your work demonstrates engagement with the assignment requirements. You've shown good analytical thinking and have made meaningful connections to business applications. Continue to focus on developing your technical skills and deepening your analysis in future assignments.

Technical Analysis

Code Strengths:

- Successfully implements data quality assessment producing correct results
- Uses tidyverse package appropriately for data manipulation and visualization
- Code executes without errors and generates expected outputs

Code Improvement Suggestions:

- Consider removing duplicate outlier detection code blocks (lines 75-85 and 90-100)
- Could enhance data cleaning section by adding comments explaining each step
- Alternative approach for imputing missing values: use `skimr::skim()` for comprehensive summary statistics

Technical Observations:

- Demonstrates solid understanding of data cleaning techniques
- Appropriate use of IQR method for outlier detection in business analytics
- Code organization supports reproducible analysis with clear section breaks

Additional Code Enhancement Examples:

Data Exploration Enhancement:

```
# More comprehensive data inspection
glimpse(sales_df) # dplyr alternative to str()
skimr::skim(sales_df) # Detailed summary statistics
DataExplorer::plot_missing(sales_df) # Visualize missing data
```

Data Visualization:

```
# Basic plots for data exploration
ggplot(sales_df, aes(x = amount)) + geom_histogram()
ggplot(sales_df, aes(x = category, y = amount)) + geom_boxplot()
```

Data Cleaning:

```
# Handle missing values
sales_df <- sales_df %>%
filter(!is.na(amount)) %>%
mutate(amount = ifelse(amount < 0, 0, amount))
```

Performance by Category