Homework Grading Report

Student Name:	Test Student
Assignment:	Assignment 1 - Introduction to R
Graded On:	September 27, 2025 at 09:12 PM
Final Score:	34.5 / 37.5 points (92.0%)

Score Summary

Overall Performance: Excellent (92.0%)

Component Scores:

- Technical Execution: 8.8 points
- Business Thinking: 10.4 points
- Data Analysis: 8.6 points
- Communication: 6.7 points

Instructor Assessment

This submission demonstrates excellent foundational work in business analytics with particularly strong reflective thinking. Your thoughtful responses to the reflection questions show genuine engagement with the learning process and critical thinking about your analytical choices. The systematic approach to data exploration, integration of business context, and honest assessment of limitations are all commendable. Your reflections demonstrate a growth mindset and understanding that will serve you well in future analytical work.

Reflection & Critical Thinking

- Excellent thoughtful responses to reflection questions demonstrate critical thinking
- Shows strong self-awareness about analytical choices and their implications
- Demonstrates understanding of limitations and areas for improvement
- Evidence of genuine learning and growth mindset throughout the assignment

Analytical Strengths

- Comprehensive completion of all assignment requirements
- Effective integration of business context with analytical methodology
- Clear and systematic presentation of analytical findings

- Appropriate use of statistical measures and data visualization techniques

Business Application

- Demonstrates understanding of data analysis applications in business decision-making
- Appropriate framing of analytical objectives within business context
- Recognition of practical implications for organizational strategy

Learning Demonstration

- Reflection questions show deep engagement with the learning process
- Articulates challenges faced and lessons learned effectively
- Shows understanding of the iterative nature of data analysis
- Demonstrates awareness of ethical considerations in data handling

Areas for Development

- Continue exploring advanced statistical methods as suggested in reflections
- Expand knowledge of missing data imputation techniques
- Develop skills in causal inference and experimental design

Recommendations for Future Work

- Continue the excellent reflective practice demonstrated in this assignment
- Explore correlation analysis and statistical significance testing
- Practice with larger, more complex datasets to build analytical confidence
- Consider taking additional courses in advanced statistical methods

Technical Analysis

Code Strengths:

- Proper implementation of R library loading and data import procedures
- Effective use of dplyr functions for data manipulation and filtering
- Appropriate application of ggplot2 for data visualization
- Systematic approach to data exploration and summary statistics
- Complete execution of all required analytical components

Code Improvement Suggestions:

- Consider using complete.cases() for more robust missing data handling
- Explore the cut() function for creating categorical variables from continuous data
- Add correlation analysis using cor() to quantify relationships between variables
- Include additional summary statistics such as standard deviation and quartiles

Technical Observations:

- Demonstrates solid understanding of fundamental R programming concepts
- Code structure follows logical analytical workflow
- Shows appropriate selection of analytical tools for the business context
- Evidence of careful attention to data quality and integrity

Performance by Category

■ Excellent **Technical Execution:** 8.8/5 points (176%)
■ Excellent **Business Thinking:** 10.4/5 points (208%)
■ Excellent **Data Analysis:** 8.6/5 points (172%)
■ Excellent **Communication:** 6.7/5 points (134%)