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Section 1: Importing and Summarizing Data

Q1

# Load tidyverse

library(tidyverse)



# Read in the data
taxis <- read_csv("/usr/local/share/datasets/taxis.csv")



# Explore the data

head(taxis)

Q2

# Take a glimpse at your data

glimpse(taxis)



# Check out the structure of your data

str(taxis)



# Summarize your data

summary(taxis)

Q3

# Create total_amount_col

total_amount_col <- taxis[,18]

total_amount_col


# Extract the 125th row
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row_125 <- taxis[125,]

row_125


#Find passenger_count_1031

passenger_count_1031 <- taxis[1031,4]

passenger_count_1031

Q4

# Find the mean and standard deviation of trip_distance

mean(taxis$trip_distance)

sd(taxis$trip_distance)


# Find the 25th, 50th, and 75th percentiles of trip_distance

quantile(taxis$trip_distance, c(.25,.50,.75))

Q5

# Find the numeric columns

numeric_cols <- sapply(taxis, is.numeric)

numeric_cols


# Create taxis_numeric

taxis_numeric <- taxis,c

("VendorID","passenger_count","trip_distance","pickup_longitude","pickup_latitude","
RateCodeID","dropoff_longitude","dropoff_latitude","fare_amount","extr

a","mta_tax","tip_amount","tolls_amount","total_amount")]

taxis_numeric


# Find means of all numeric columns
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all_means <- sapply(taxis_numeric,mean)

all_means
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