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import csv
# Read the CSV file
with open('car sales data.csv', 'r') as file:
    reader = csv.reader(file)
    header = next(reader) # Skip the header row
    # Initialize variables
    most_expensive_car = None
    \max price = 0
    total sales = 0
    passenger car count = 0
    max engine size car = None
    \max \text{ engine size} = 0
    min horsepower car = None
    min_horsepower = float('inf')
    # Iterate over the rows
    for row in reader:
        # Extract the relevant values from the row
        price = float(row[4])
        sales = float(row[2])
        vehicle type = row[3]
        engine size = float(row[5])
        horsepower = float(row[6])
        # Check for the most expensive car
        if price > max price:
            max price = price
            most expensive car = row[1]
        # Calculate the total sales
        total_sales += sales
        # Count the passenger cars
        if vehicle type == 'Passenger':
            passenger car count += 1
        # Check for the car with the maximum engine size
        if engine size > max engine size:
            max engine size = engine size
            max engine size car = row[1]
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# Check for the car with the minimum horsepower
    if horsepower < min_horsepower:
        min_horsepower = horsepower
        min_horsepower_car = row[1]

# Calculate the average sales
average_sales = total_sales / (reader.line_num - 1)

# Print the results
print("Most Expensive Car:", most_expensive_car)
print("Average Sales of All Cars:", average_sales)
print("Total Number of Passenger Cars:", passenger_car_count)
print("Car with Maximum Engine Size:", max_engine_size_car)
print("Car with Minimum Horsepower:", min_horsepower_car)</pre>
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