```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model selection import train test split
from \ sklearn.linear\_model \ import \ LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
df = pd.read_csv('/content/boston_house_prices.csv')
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 Next steps: ( Generate code with df )
                                   View recommended plots
                                                                New interactive sheet
# Split dataset into features (X) and target (y)
X = df.drop(columns=['PRICE']) # Independent variables
y = df['PRICE'] # Target variable
# Train-test split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
# Train the Linear Regression model
model = LinearRegression().fit(X_train, y_train)
# Predict and evaluate
y_pred = model.predict(X_test)
print("Mean Squared Error:", mean_squared_error(y_test, y_pred))
→ Mean Squared Error: 24.291119474973478
# Calculate R-squared score
r2 = r2_score(y_test, y_pred)
print("R-squared Score:", r2)
R-squared Score: 0.6687594935356326
# Plot actual vs predicted prices
plt.scatter(y_test, y_pred, color='blue')
plt.xlabel("Actual Prices")
plt.ylabel("Predicted Prices")
plt.title("Actual vs Predicted Home Prices")
plt.show()
```



Start coding or generate with AI.