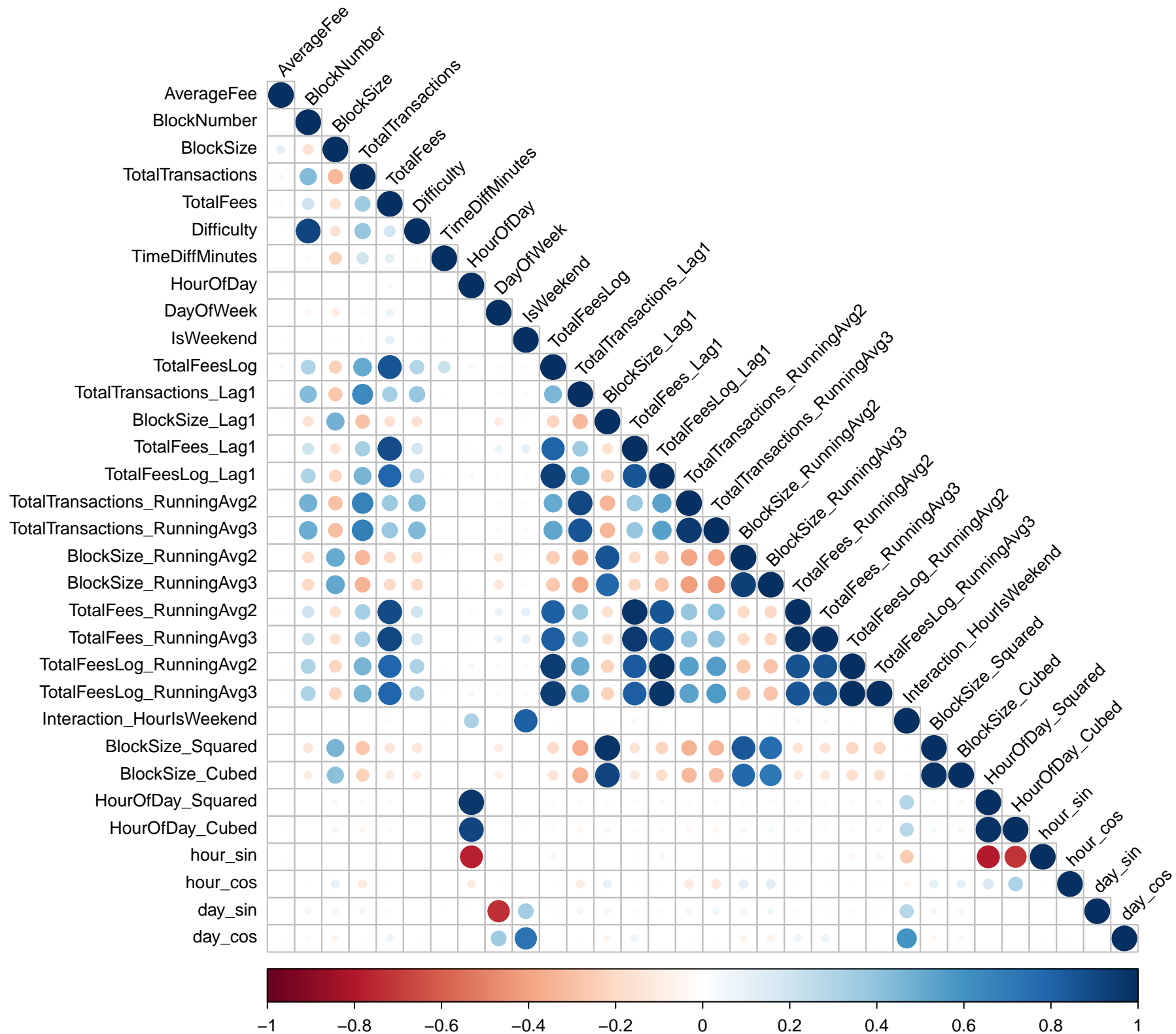
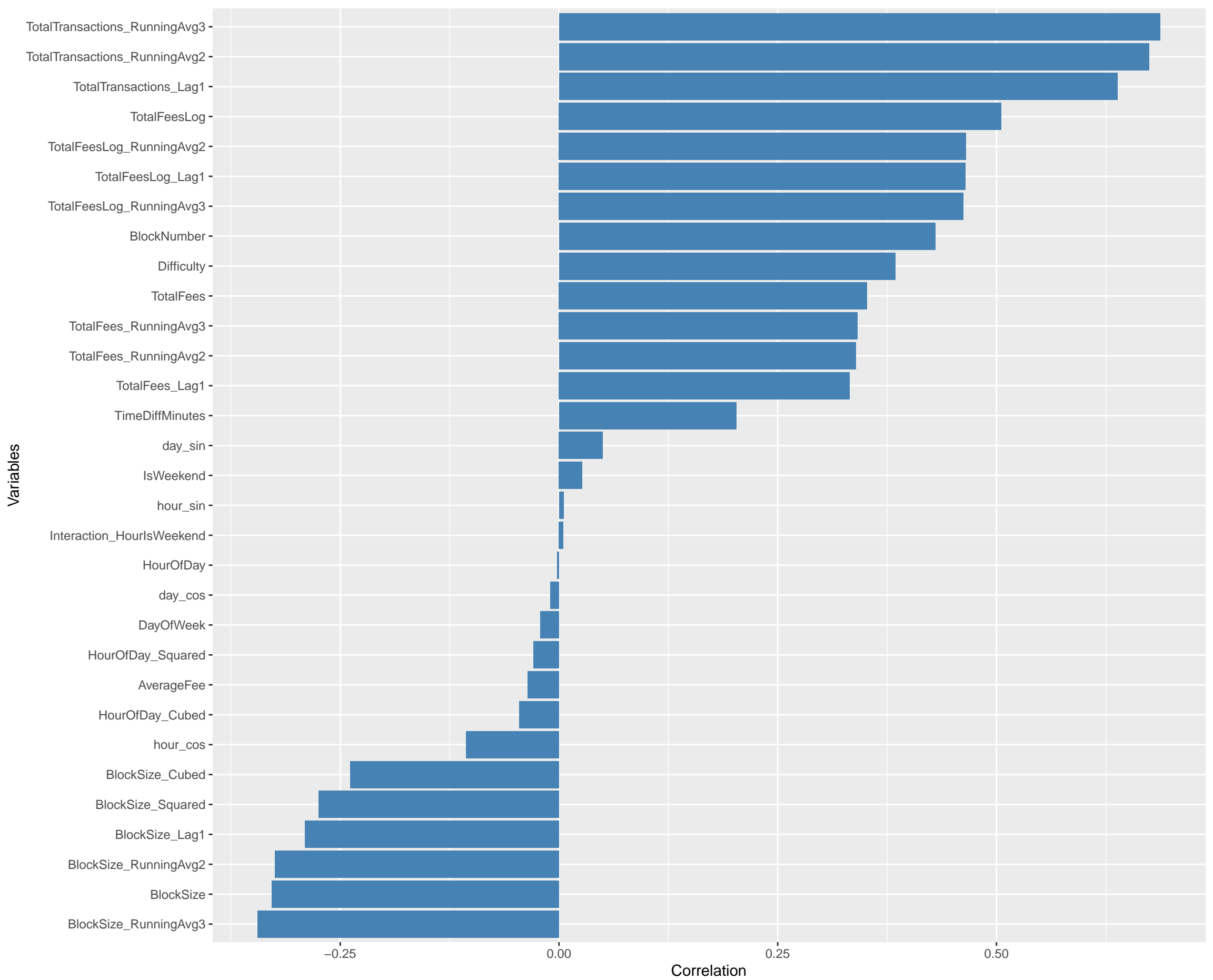


# Correlation Matrix



# Correlation with TotalTransactions



# PCA Summary

Importance of components:

	PC1	PC2	PC3	PC4	PC5	PC6	PC7
Standard deviation	3.1006	2.0770	1.9287	1.58350	1.54619	1.31495	1.10778
Proportion of Variance	0.3004	0.1348	0.1162	0.07836	0.07471	0.05403	0.03835
Cumulative Proportion	0.3004	0.4352	0.5515	0.62983	0.70454	0.75858	0.79693
	PC8	PC9	PC10	PC11	PC12	PC13	PC14
Standard deviation	1.09083	1.00428	0.98486	0.77337	0.64763	0.62841	0.61310
Proportion of Variance	0.03718	0.03152	0.03031	0.01869	0.01311	0.01234	0.01175
Cumulative Proportion	0.83411	0.86563	0.89594	0.91463	0.92774	0.94008	0.95183
	PC15	PC16	PC17	PC18	PC19	PC20	PC21
Standard deviation	0.57053	0.53316	0.42962	0.38958	0.37723	0.32703	0.2830
Proportion of Variance	0.01017	0.00888	0.00577	0.00474	0.00445	0.00334	0.0025
Cumulative Proportion	0.96200	0.97088	0.97665	0.98139	0.98584	0.98918	0.9917
	PC22	PC23	PC24	PC25	PC26	PC27	PC28
Standard deviation	0.26903	0.24149	0.23050	0.18193	0.13932	0.10590	0.09701
Proportion of Variance	0.00226	0.00182	0.00166	0.00103	0.00061	0.00035	0.00029
Cumulative Proportion	0.99395	0.99577	0.99743	0.99846	0.99907	0.99942	0.99971
	PC29	PC30	PC31	PC32			
Standard deviation	0.07505	0.04353	0.03961	0.00528			
Proportion of Variance	0.00018	0.00006	0.00005	0.00000			
Cumulative Proportion	0.99989	0.99995	1.00000	1.00000			

# Decision Suggestions

## ### Decision Suggestions based on Correlation Analysis

### 1. \*\*Features with High Correlation\*\*:

Consider using the following features in your model as they show a significant correlation with the target variable:

- TotalTransactions\_RunningAvg3
- TotalTransactions\_RunningAvg2
  - TotalTransactions\_Lag1
  - TotalFeesLog
- TotalFeesLog\_RunningAvg2
  - TotalFeesLog\_Lag1
- TotalFeesLog\_RunningAvg3
  - BlockNumber
  - Difficulty
  - TotalFees
- TotalFees\_RunningAvg3
- TotalFees\_RunningAvg2
  - TotalFees\_Lag1
- BlockSize\_RunningAvg2
  - BlockSize
- BlockSize\_RunningAvg3

### 2. \*\*Features with Moderate Correlation\*\*:

Consider using the following features with caution, as they show moderate correlation with the target variable:

- TimeDiffMinutes
- hour\_cos
- BlockSize\_Cubed
- BlockSize\_Squared
- BlockSize\_Lag1

## ### Decision Suggestions based on PCA Analysis

### 3. \*\*Principal Components\*\*:

Consider the principal components that explain the majority of the variance. Use these components to reduce dimensionality if needed.