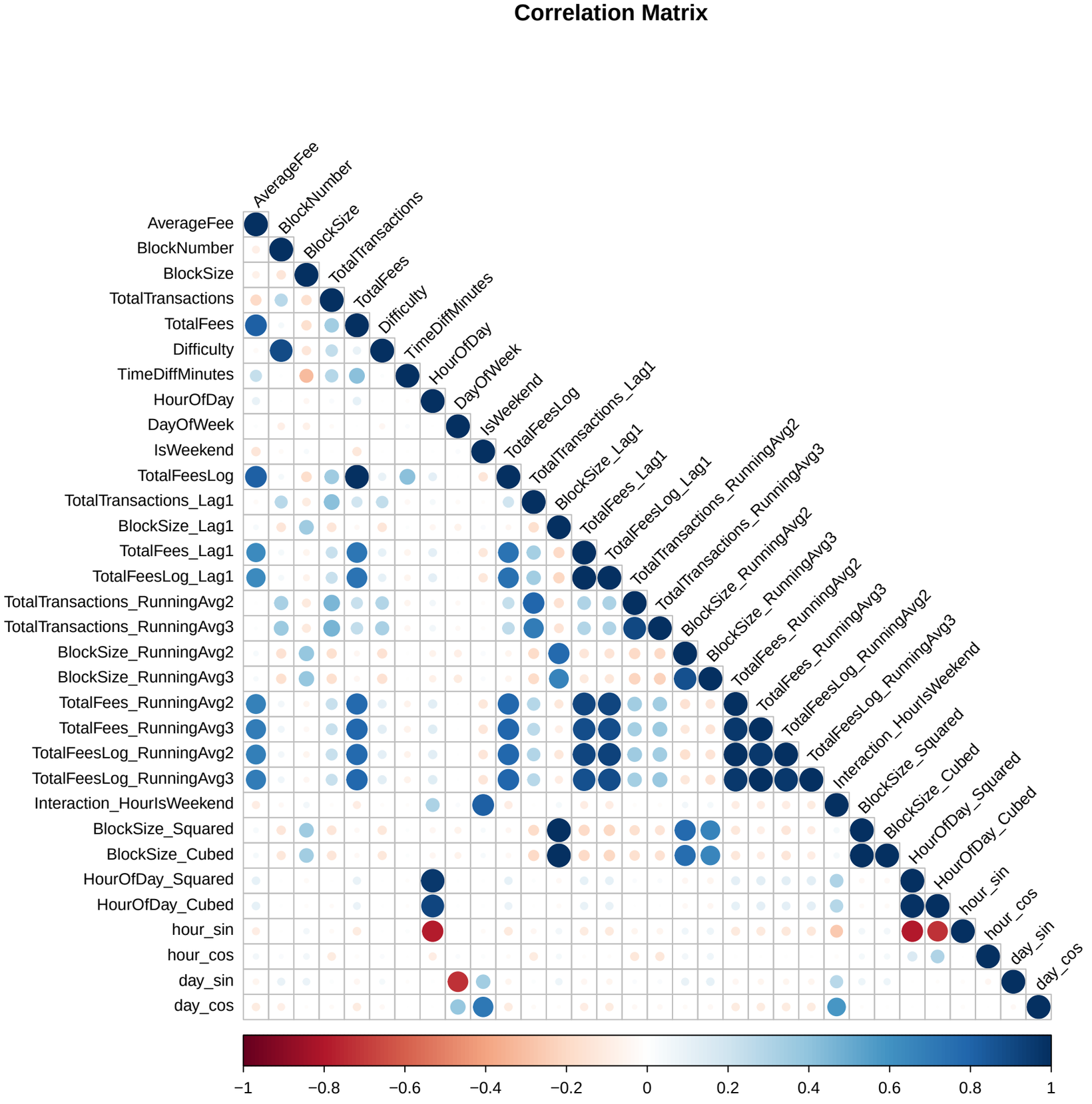
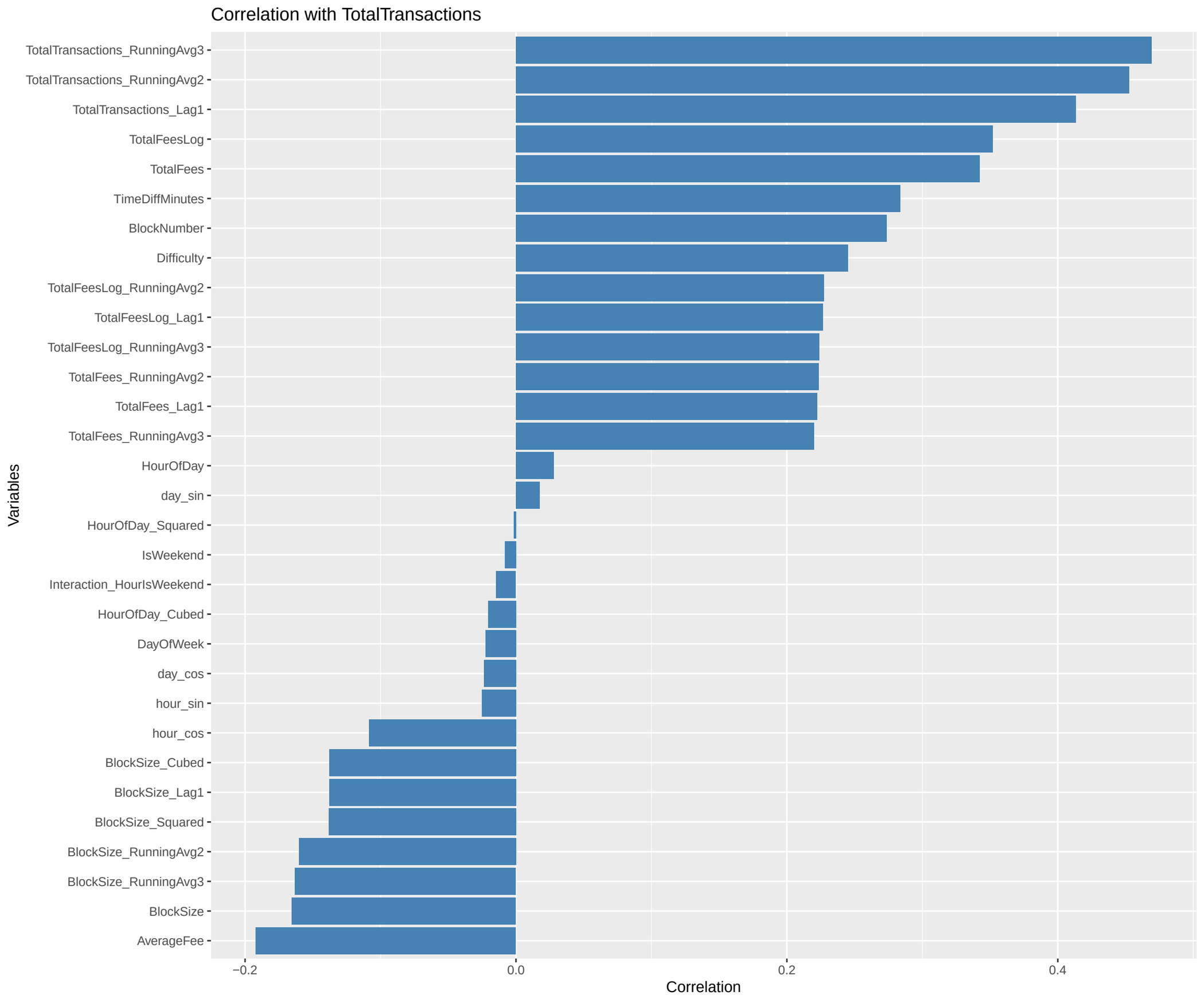

Correlation Matrix
AverageFee
BlockNumber
BlockSize
TotalTransactions
TotalFees
Difficulty
TimeDiffMinutes
HourOfDay
DayOfWeek
IsWeekend
TotalFeesLog
TotalTransactions_Lag1
BlockSize_Lag1
TotalFees_Lag1
TotalFeesLog_Lag1
TotalTransactions_RunningAvg2
TotalTransactions_RunningAvg3
BlockSize_RunningAvg2
BlockSize_RunningAvg3
TotalFees_RunningAvg2
TotalFees_RunningAvg3
TotalFeesLog_RunningAvg2
TotalFeesLog_RunningAvg3
Interaction_HourIsWeekend
BlockSize_Squared
BlockSize_Cubed
HourOfDay_Squared
HourOfDay_Cubed
hour_sin
hour_cos
day_sin
day_cos
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1


Correlation with TotalTransactions
TotalTransactions_RunningAvg3
TotalTransactions_RunningAvg2
TotalTransactions_Lag1
TotalFeesLog
TotalFees
TimeDiffMinutes
BlockNumber
Difficulty
TotalFeesLog_RunningAvg2
TotalFeesLog_Lag1
TotalFeesLog_RunningAvg3
TotalFees_RunningAvg2
TotalFees_Lag1
TotalFees_RunningAvg3
HourOfDay
day_sin
HourOfDay_Squared
IsWeekend
Interaction_HourIsWeekend
HourOfDay_Cubed
DayOfWeek
day_cos
hour_sin
hour_cos
BlockSize_Cubed
BlockSize_Lag1
BlockSize_Squared
BlockSize_RunningAvg2
BlockSize_RunningAvg3
BlockSize
AverageFee
Variables
−0.2
0.0
0.2
0.4
Correlation

PCA Summary

Importance of components:

	PC1	PC2	PC3	PC4	PC5	PC6	PC7
Standard deviation	2.929	2.1443	1.9315	1.68137	1.51629	1.33764	1.32384
Proportion of Variance	0.268	0.1437	0.1166	0.08834	0.07185	0.05592	0.05477
Cumulative Proportion	0.268	0.4117	0.5283	0.61663	0.68848	0.74439	0.79916

	PC8	PC9	PC10	PC11	PC12	PC13	PC14
Standard deviation	1.19774	0.99879	0.87736	0.80650	0.7611	0.59735	0.56477
Proportion of Variance	0.04483	0.03117	0.02406	0.02033	0.0181	0.01115	0.00997
Cumulative Proportion	0.84399	0.87517	0.89922	0.91955	0.9376	0.94880	0.95877

	PC15	PC16	PC17	PC18	PC19	PC20	PC21
Standard deviation	0.52438	0.45325	0.43385	0.39015	0.34292	0.32663	0.31180
Proportion of Variance	0.00859	0.00642	0.00588	0.00476	0.00367	0.00333	0.00304
Cumulative Proportion	0.96736	0.97378	0.97966	0.98442	0.98809	0.99143	0.99446

	PC22	PC23	PC24	PC25	PC26	PC27	PC28
Standard deviation	0.29144	0.19486	0.18624	0.08676	0.07397	0.06863	0.03411
Proportion of Variance	0.00265	0.00119	0.00108	0.00024	0.00017	0.00015	0.00004
Cumulative Proportion	0.99712	0.99831	0.99939	0.99962	0.99980	0.99994	0.99998

	PC29	PC30	PC31	PC32
Standard deviation	0.02248	0.01172	0.005268	0.002592
Proportion of Variance	0.00002	0.00000	0.000000	0.000000
Cumulative Proportion	0.99999	1.00000	1.000000	1.000000

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
- TotalFees

2. **Features with Moderate Correlation**:
Consider using the following features with caution, as they show moderate correlation with the target variable:
- TimeDiffMinutes
- BlockNumber
- Difficulty
- TotalFeesLog_RunningAvg2
- TotalFeesLog_Lag1
- TotalFeesLog_RunningAvg3
- TotalFees_RunningAvg2
- TotalFees_Lag1
- TotalFees_RunningAvg3
- hour_cos
- BlockSize_Cubed
- BlockSize_Lag1
- BlockSize_Squared
- BlockSize_RunningAvg2
- BlockSize_RunningAvg3
- BlockSize
- AverageFee

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.