Choice

Before 6:30, 6:30-7 | 6:30-7, 7-7:30 | 7-7:30, 7:30-8 | 7:30-8, 8-8:30 | 8-8:30, 8:30-9 | 8:30-9, 9-9:30 | 9-9:30, 9:30to 10 | 9:30 to 10, After --

Before 6:30 | 6:30 to 7 | 7 to 7:30 | 7:30 to 8 | 8 to 8:30 | 8:30 to 9 | 9 to 9:30 | 9:30 to 10 | After 10:00

$$\text{Qcluster}_j = \exp(\text{MuR} \times IV_j)/(\sum_{j=1}^{8} \exp(\text{MuR} \times IV_j) + \sum_{i=1}^{9} \exp(\text{MuR} \times V_i))$$

$$IV_j = \ln(\exp(Mu_j + V_j) + \exp(Mu_j + V_{j+1}))/Mu_{j-1}$$

Log-sum Value:

$$\text{Ln} \ (\sum_{j=1}^{8} \exp(\text{MuR} \times IV_j) + \sum_{i=1}^{9} \exp(\text{MuR} \times V_i))$$

Correlation Among Cluster=Muj
Muj = MuR + exp(B*x)

x=Logarithm of distance between origin and destination

Root Scale=MuR=exp(B*x)
Root scale: Exponential function
Gender: male
Age: less than 25 years old
Age: 25–35 years old
Age: 35–45 years old
Job status: full time
Total cost/total distance
In-vehicle travel time/total distance
Trip origin: downtown Toronto
Trip destination: downtown Toronto

Variables used in the departure time choice
utility equations:
1. Total cost
2. In-vehicle travel time
3. Work duration
4. Destination of the trips: downtown Toronto
5. Occupation category: general office
6. Occupation category: manufacturing
7. Occupation category: professional