

The LOGISTIC Procedure

| Model Information | |
|---------------------------|-----------------------|
| Data Set | CAPSTONE.HR_ATTRITION |
| Response Variable | Attrition |
| Number of Response Levels | 2 |
| Model | binary logit |
| Optimization Technique | Fisher's scoring |

| | |
|-----------------------------|------|
| Number of Observations Read | 1470 |
| Number of Observations Used | 1470 |

| Response Profile | | |
|------------------|-----------|-----------------|
| Ordered Value | Attrition | Total Frequency |
| 1 | No | 1233 |
| 2 | Yes | 237 |

Probability modeled is Attrition='Yes'.

| Class Level Information | | |
|-------------------------|-------|------------------|
| Class | Value | Design Variables |
| OverTime | No | 1 |
| | Yes | 0 |

| Model Convergence Status | | | |
|-----------------------------------------------|--|--|--|
| Convergence criterion (GCONV=1E-8) satisfied. | | | |

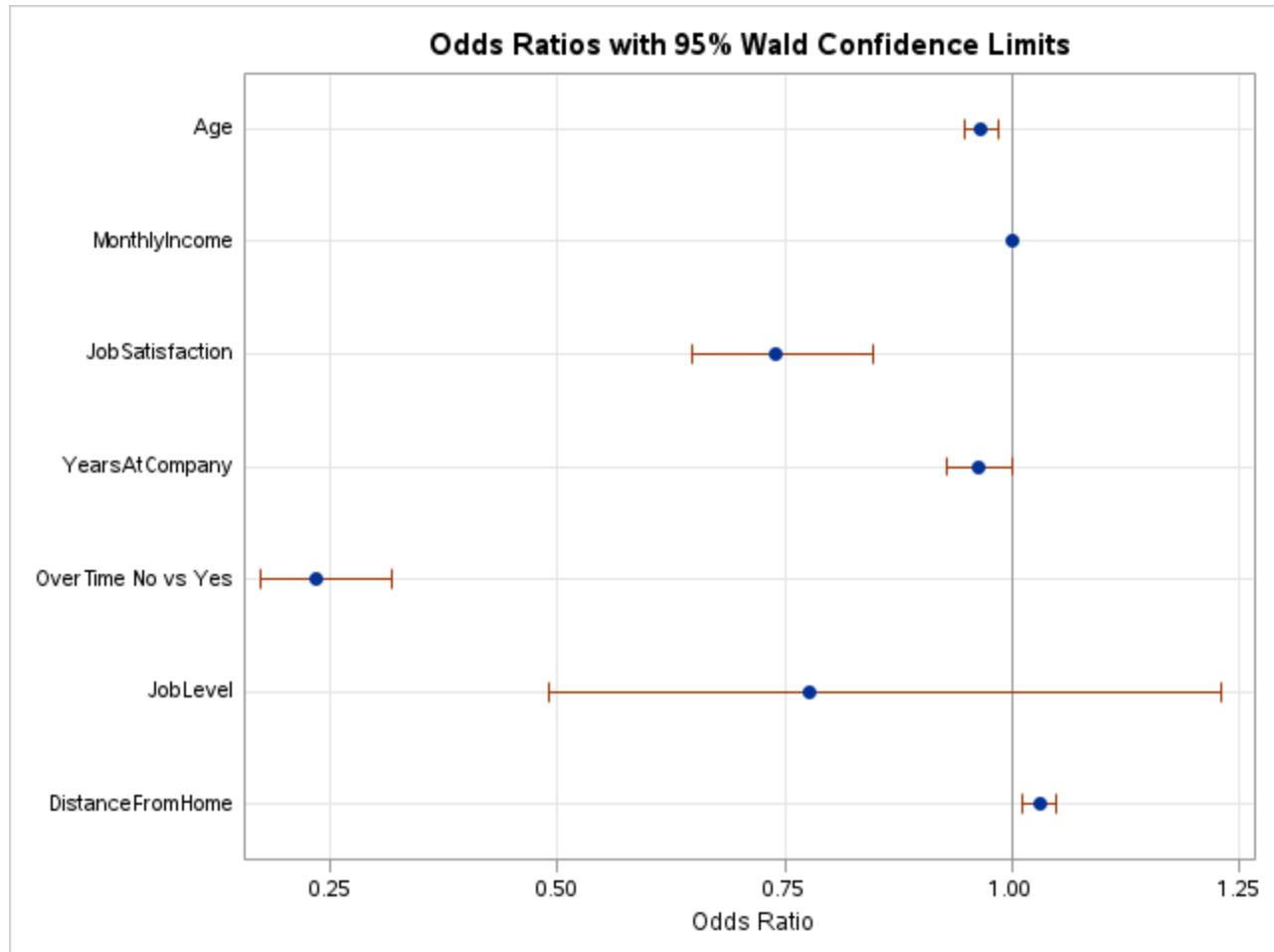
| Model Fit Statistics | | | |
|----------------------|----------------|--------------------------|----------|
| Criterion | Intercept Only | Intercept and Covariates | |
| AIC | 1300.583 | | 1134.079 |
| SC | 1305.876 | | 1176.423 |
| -2 Log L | 1298.583 | | 1118.079 |

| Testing Global Null Hypothesis: BETA=0 | | | |
|----------------------------------------|------------|----|------------|
| Test | Chi-Square | DF | Pr > ChiSq |
| Likelihood Ratio | 180.5034 | 7 | <.0001 |
| Score | 172.2495 | 7 | <.0001 |
| Wald | 145.6739 | 7 | <.0001 |

| Type 3 Analysis of Effects | | | |
|----------------------------|----|-----------------|------------|
| Effect | DF | Wald Chi-Square | Pr > ChiSq |
| Age | 1 | 11.5351 | 0.0007 |
| MonthlyIncome | 1 | 0.1957 | 0.6582 |
| JobSatisfaction | 1 | 19.5077 | <.0001 |
| YearsAtCompany | 1 | 3.9420 | 0.0471 |
| OverTime | 1 | 88.0062 | <.0001 |
| JobLevel | 1 | 1.1623 | 0.2810 |
| DistanceFromHome | 1 | 10.5311 | 0.0012 |

| Analysis of Maximum Likelihood Estimates | | | | | | |
|------------------------------------------|----|----|----------|----------------|-----------------|------------|
| Parameter | | DF | Estimate | Standard Error | Wald Chi-Square | Pr > ChiSq |
| Intercept | | 1 | 1.8099 | 0.4084 | 19.6417 | <.0001 |
| Age | | 1 | -0.0342 | 0.0101 | 11.5351 | 0.0007 |
| MonthlyIncome | | 1 | -0.00003 | 0.000057 | 0.1957 | 0.6582 |
| JobSatisfaction | | 1 | -0.3004 | 0.0680 | 19.5077 | <.0001 |
| YearsAtCompany | | 1 | -0.0374 | 0.0188 | 3.9420 | 0.0471 |
| Overtime | No | 1 | -1.4548 | 0.1551 | 88.0062 | <.0001 |
| JobLevel | | 1 | -0.2528 | 0.2345 | 1.1623 | 0.2810 |
| DistanceFromHome | | 1 | 0.0297 | 0.00915 | 10.5311 | 0.0012 |

| Odds Ratio Estimates | | | |
|----------------------|----------------|----------------------------|-------|
| Effect | Point Estimate | 95% Wald Confidence Limits | |
| Age | 0.966 | 0.947 | 0.986 |
| MonthlyIncome | 1.000 | 1.000 | 1.000 |
| JobSatisfaction | 0.741 | 0.648 | 0.846 |
| YearsAtCompany | 0.963 | 0.928 | 1.000 |
| Overtime No vs Yes | 0.233 | 0.172 | 0.316 |
| JobLevel | 0.777 | 0.491 | 1.230 |
| DistanceFromHome | 1.030 | 1.012 | 1.049 |



| Association of Predicted Probabilities and Observed Responses | | | |
|---------------------------------------------------------------|------|-----------|-------|
| Percent Concordant | 76.0 | Somers' D | 0.519 |
| Percent Discordant | 24.0 | Gamma | 0.519 |

| Association of Predicted Probabilities and Observed Responses | | | |
|---------------------------------------------------------------|--------|-------|-------|
| Percent Tied | 0.0 | Tau-a | 0.141 |
| Pairs | 292221 | c | 0.760 |

