-- Predict for sample cases in table RecentCases

DROP TABLE #Parameters

SELECT MAX(k) as K

, Max(Case WHEN Variable=1 THEN Intercept END) AS Sex

, Max(Case WHEN Variable=2 THEN Intercept END) AS uEat

, Max(Case WHEN Variable=3 THEN Intercept END) AS uSit

, Max(Case WHEN Variable=4 THEN Intercept END) AS uGroom

, Max(Case WHEN Variable=5 THEN Intercept END) AS uToilet

, Max(Case WHEN Variable=6 THEN Intercept END) AS uBathe

, Max(Case WHEN Variable=7 THEN Intercept END) AS uUrine

, Max(Case WHEN Variable=8 THEN Intercept END) AS uWalk

, Max(Case WHEN Variable=9 THEN Intercept END) AS uDress

, Max(Case WHEN Variable=10 THEN Intercept END) AS uBowel

, Max(Case WHEN Variable=11 THEN Intercept END) AS OldAge

INTO #Parameters FROM #k Cross Join #intercept

-- Calculate probability of Death for specific individuals

Drop Table #Prob Select Allvariables, CAST(sum(dead) as float)/CAST(COUNT(ID) as float) as Prob

INTO #Prob from #data GROUP BY AllVariables HAVING COUNT(ID)>9

Declare @Max AS Float, @Min AS Float

SET @Max = (SELECT MAX(Prob) FROM #Prob)

SET @Min = (SELECT MIN(Prob) FROM #Prob)

Print @Max Print @min

SELECT ID, (@Max-@Min)\*(-1+(1+ K\*b.sex\*a.sex)\*(1+ K\*b.uEat\*a.uEat)\*(1+ K\*b.uSit\*a.uSit)\*(1+ K\*b.uGroom\*a.uGroom)\*(1+ K\*b.uToilet\*a.uToilet)\*(1+ K\*b.uBathe\*a.uBathe)\*

(1+ K\*b.uUrine\*a.uUrine)\*(1+ K\*b.uWalk\*a.uWalk)\*(1+ K\*b.uDress\*a.uDress)\*(1+ K\*b.uBowel\*a.uBowel)\*(1+ K\*b.OldAge\*a.OldAge))/k +@min AS Probability

, Dead

FROM dbo.recentcases a cross join #parameters b