GENERAL

New sample from TransForming table [SOURCE]
New instance [TARGET(t)] is created for every [SOURCE(n)] sample from TransForming
Characteric values will be stored per timeslice from latest sample

See Also Process Flows: "IRIS Starter Pack OEE Analytics Serving "

Structure	OEE Analytics Serving			
Identification	Field	TableField	Soguence	Process Logic
identification	TimeStampLocal	SOURCE.TimeStampLocal	Sequence 100	Process Logic TRANSFER SOURCE.TimeStampLocal
	EquipmentID	SOURCE.EquipmentID	110	TRANSFER SOURCE.EquipmentID
	ShiftOperationID	SOURCE.ShiftOperationID	120	TRANSFER SOURCE.ShiftOperationID
	WorkOrder	SOURCE.WorkOrder	130	TRANSFER SOURCE.WorkOrder
OFF KDI				
OEE_KPI	OFFDfThtil		050	MULTIPLY (OFFThe parties Production Time)
	OEEPerformanceTheoretical		950	MULTIPLY (OEETheoreticalProductionTime) BY 100
	OEEQualityGood		960	MULTIPLY (MULTIPLY (OEEActualOutput -/- OEERejected Output) BY (OEEStandardCycleTime) BY 100
	OEEQualityActual		970	MULTIPLY (MULTIPLY (OEEActualOutput) BY (OEEStandardCycleTime)) BY 100
OEE_metrics				
	OEEActualProductionTime	TARGET(t).ProductionTime TARGET(t).LineUpTime	790	TRANSFER (TARGET(t).ProductionTime +/+ TARGET(t).LineUpTime)
	OEEPotentialProductionTime	SOURCE.DurationIncrement ShiftOperation.Active	780	IF ShiftOperation.Active = "X" TRANSFER SOURCE(n).DurationIncrement ENDIF.
	OEEActualOutput	TARGET(t).LineUpQty TARGET(t).ProductionQty	770	TRANSFER (TARGET(t).LineUpQty + TARGET(t).ProductionQty)
	OEETheoreticalProductionTime		760	IF SOURCE(n).MachineStatusPreviousSample = (
	OEEStandardCycleTime	TARGET(t).RecipeSpeed	755	TRANSFER [INVERSE (TARGET(t).RecipeSpeed)) * 60]
	OEERejectedOutput	TARGET(t).OOEScrap TARGET(t).OEERework	750	TRANSFER (TARGET(t).OOEScrap +/+ TARGET(t).OEERework)
	OEEScrap	TARGET(t).MisPasQty	745	TRANSFER TARGET(t).MisPasQty

	OEERework		740	n.a.
	OEEUnScheduledDownTime	ShiftOperation.Active	710	IF ShiftOperation.Active = "X"
		TARGET(t).OutOfOrderTime		TRANSFER TARGET(t).OutOfOrderTime
		.,		ENDIF
				{when Active Shift}
	OEEFailureTime	TARGET(t).StandByProductionTime	720	TRANSFER TARGET(t).StandByProductionTime
	OEEWaitingTime	TARGET(1) GL	720	TRANSFER TARGET/// CI O. T'
-	OOELineRestraintTime	TARGET(t).ChangeOverTime	725	TRANSFER TARGET(t).ChangeOverTime TRANSFER TARGET(t).StandByChangeOverTime
		TARGET(t).StandByChangeOverTime		
	OEEUnScheduledIdleTime	CLISCO III A III	730 715	n.a.
	OEENotScheduledOperatingTime	ShiftOperation.Active	/15	IF ShiftOperation.Active <> "X"
		TARGET(t).OutOfOrderTime		TRANSFER TARGET(t).OutOfOrderTime
				ENDIF {when Inactive Shift}
Customer_Metrics_Time				(when mactive shirt)
	ProductionTime	SOURCE.DurationIncrement	510	IF SOURCE(n).MachineStatusPreviousSample =
		SOURCE.MachineStatusPreviousSample		(<translineuptoproductionstatus> OR <productionstatus> OR <transstandbytoproduction>)</transstandbytoproduction></productionstatus></translineuptoproductionstatus>
		·		THEN TRANSFER SOURCE(n).DurationIncrement
				ENDIF.
	StandByProductionTime	SOURCE.DurationIncrement	540	IF (
	•	SOURCE.MachineStatusPreviousSample		(SOURCE(n).MachineStatusPreviousSample =
		SOURCE.MachineStatusPreviousStatus		(<transprodtostandby> OR <transstandbytolineup> OR <transstandbytoproduction>)</transstandbytoproduction></transstandbytolineup></transprodtostandby>
				OR
				(SOURCE(n).MachineStatusPreviousSample = <standby></standby>
				AND SOURCE(n).MachineStatusPreviousStatus = (<totalproduction> OR TransProductionToStandBy)</totalproduction>
				TRANSFER SOURCE(n).DurationIncrement
				ENDIF.
				-13.1
	LineUpTime	SOURCE.DurationIncrement	515	IF SOURCE(n).MachineStatusPreviousSample =
		SOURCE.MachineStatusPreviousSample		(<transforerunnertolineupstatus> OR <lineupstatus> OR TransStandByToLineUp)</lineupstatus></transforerunnertolineupstatus>
				THEN TRANSFER SOURCE(n).DurationIncrement
	ChangeOverTime	(TARGET(t).StopTime	560	TRANSFER (TARGET(t).StopTime + TARGET(t).ForeRunnerTime)
		TARGET(t).ForeRunnerTime)		
	ForeRunnerTime	SOURCE.DurationIncrement	520	IF SOURCE(n).MachineStatusPreviousSample =
		SOURCE.MachineStatusPreviousSample		(TransStandByToForeRunnerStatus> OR <forerunnerstatus>)</forerunnerstatus>
				THEN TRANSFER SOURCE(n). DurationIncrement
	StandByChangeOverTime	SOURCE.DurationIncrement	550	IF (
		SOURCE.MachineStatusPreviousSample		(SOURCE(n).MachineStatusPreviousSample = <transstoptostandby></transstoptostandby>
		SOURCE.MachineStatusPreviousStatus)
				OR
				(SOURCE(n).MachineStatusPreviousSample = <standby></standby>
				AND SOURCE(n).MachineStatusPreviousStatus = NOT (<totalproduction> OR</totalproduction>
				TransProductionToStandBy)
				,)
				TRANSFER COURCE() P
	StanTime	COLIDCE Duration Ingrament	525	TRANSFER SOURCE(n).DurationIncrement IF SOURCE(n).MachineStatusPreviousSample =
	StopTime	SOURCE Machine Status Province Source	323	
		SOURCE.MachineStatusPreviousSample		(<transoootostopstatus> OR <stopstatus> OR <transproductiontostopstatus>)</transproductiontostopstatus></stopstatus></transoootostopstatus>
				THEN TRANSFER SOURCE(n).DurationIncrement
	OutOfOrderTime	COLIDCE Duration Ingrament	530	UE (COUDCE(n) Machine Status Denvious Complex - xOut Of Order Status)
	Outolorderline	SOURCE.DurationIncrement SOURCE.MachineStatusPreviousSample	550	IF (SOURCE(n).MachineStatusPreviousSample = <outoforderstatus>) THEN TRANSFER SOURCE(n).DurationIncrement</outoforderstatus>
L	I .	300 NCE. IVIACIIII e Status Previous Sample	1	THE HAMSEN SOUNCE(II). Duration in Crement

	ChangeOverTotalTime	(TARGET(t).ChangeOverTime Target(t).StandByChangeOverTime	570	TRANSFER (TARGET(t).ChangeOverTime + Target(t).StandByChangeOverTime)
	DurationIncrement	SOURCE.DurationIncrement	590	TRANSFER SOURCE(n).DurationIncrement
Customer_Metrics_Qty				
	MisPasQty	SOURCE.MisPasQtyIncrement	320	TRANSFER SOURCE(n).MisPasQtyIncrement
	LineUpQty	SOURCE.ProducedQtyIncrement	330	IF SOURCE(n). Machine Status Previous Sample =
		SOURCE.MachineStatusPreviousSample		(<transforerunnertolineupstatus></transforerunnertolineupstatus>
				OR <lineupstatus></lineupstatus>
				OR <transstandbytolineupstatus>)</transstandbytolineupstatus>
				THEN TRANSFER SOURCE(n).ProducedQtyIncrement
				ENDIF
	ProductionQty	SOURCE.ProducedQtyIncrement	340	IF SOURCE(n).MachineStatusPreviousSample =
		SOURCE.MachineStatusPreviousSample		(< TransLineUpToProductionStatus >
				OR <productionstatus></productionstatus>
				OR <transstandbytoproductionstatus>)</transstandbytoproductionstatus>
				THEN TRANSFER SOURCE(n).ProducedQtyIncrement
				ENDIF.
	ProducedQtyOrder	SOURCE.ProducedQtyOrder	350	TRANSFER SOURCE(n).ProducedQTYOrder
	ProducedQtyIncrement	SOURCE.ProducedQtyIncrement	390	TRANSFERSOURCE(n).ProducedQtyIncrement
	UoM	SOURCE.UoM	310	TRANSFER SOURCE(n).UoM
Customer_Order_Characteristics				
	Recipe	SOURCE.Recipe	200	TRANSFER SOURCE(n).Recipe
	RecipeSpeed	SOURCE.RecipeSpeed	220	TRANSFER SOURCE(n).RecipeSpeed
	ActualSpeedTotalProdction	SOURCE.ActualSpeedTotalProduction	230	TRANSFER SOURCE(n).ActualSpeedTotalProduction
	NewOrder	SOURCE.NewOrder	240	TRANSFER SOURCE(n).NewOrder

Calculation of OEE KPI's per Time Period					
OEE_Availability	DIVIDE ((SUM (OEEActualProductionTime)) * 100) BY (SUM (OEEPotentialProductionTime))				
OEE_Performance	DIVIDE (SUM (OEEPerformanceTheoretical)) BY (SUM (OEEActualProductionTime))				
OEE_Quality	DIVIDE ((SUM (OEEQualityGood)) * 100) BY (SUM (OEEQualityActual))				
OEE_Overall	DIVIDE (OEE_Availability * OEE_Performance * OEE_Quality) BY 10000				
OEE_Productivity	DIVIDE (OEE_Availability * OEE_Performance) BY 100				