

Shared production data

Database access: technical information

DB Server	10.100.145.20 (fkt20g.fa.franke.world)
SB Server Port	5432
DBMS	Postgresql
ODBC Driver	32bit, 64bit
Database name	andon_FWK
Username	(readonly)
Password	

E-R diagram



Data dictionary

Entities

Entity					
Name	Description	Attributes			
		Name	Description	Type	Identifier
prodline	Production resources list	<u>codice</u>	Production resource unique identifier	varchar	Yes
		descrizio	Production resource name	varchar	
		codrep	Department unique identifier	varchar	
		descrep	Department description	varchar	
		codstab	Plant identifier	varchar	
		descstab	Plant description	varchar	
unitprod	Unique unit of production, produced items	<u>codice</u>	Produced item unique identifier	varchar	YES
		codart	Product code	varchar	
		dart	Product description	varchar	
		procord	Work order (from ERP)	varchar	
		qtaprev	Work order total quantity to be produced	double	
		unita	Produced items for each work cycle (generally 1)	double	
		tmcr	Time Epoch of the tracked production unit (seconds since 01/01/1970)	long	
		datacr	Date of the tracked production unit (YYYYMMGG)	varchar	
		oracr	Time of the tracked production unit (HH:MM:SS)	varchar	
causanc	Non compliant causes list	<u>codice</u>	Cause unique identifier	varchar	YES
		descrizio	Cause description	varchar	
causafm	Downtime causes list	<u>codice</u>	Downtime unique identifier	varchar	YES
		descrizio	Downtime description of the monitored resource	varchar	

Entity					
Name	Description	Attributes			
		Name	Description	Type	Identifier
		tipofm	Downtime type: F = unplanned downtime, M = microstop, P = planned downtime	varchar	
		setup	Downtime for setup reason (flag): 1 = setup kind, 0 = general downtime	integer	

Relationships

Relationship					
Name	Description	Components	Attributes		
			Name	Description	Type
regprod	Each row refers to a production event	prodline, unitprod	data	Event date (YYYYMMGG)	varchar
			ora	Event time (HH:MM:SS)	varchar
			tm	Event Time Epoch	long
			qta	Number of produced items	double
regnc	Each row refers to a non compliant production event	prodline, unitprod, causanc	data	Event date (YYYYMMGG)	varchar
			ora	Event time (HH:MM:SS)	varchar
			tm	Event Time Epoch	long
			qta	Number of non compliant produced items	double
regfm	Each row refers to a begin or an end of a downtime	prodline, causafm	data	Event date (YYYYMMGG)	varchar
			ora	Event time (HH:MM:SS)	varchar
			tm	Event Time Epoch	long
			tmdiff	Time difference from end and begin of the downtime events	long
			tipoevento	Downtime event type: INFM=downtime start, FIFM=downtime end	long

Logical scheme

Table	Foreign keys
prodline (<u>codice</u> , descrizio, codrep, descprep, codstab, descstab)	
unitprod (<u>codice</u> , codart, dart, procord, qtaprev, unita, tmcr, datacr, oracr)	
causanc (<u>codice</u> , descrizio)	
causafm (<u>codice</u> , descrizio, tipofm, setup)	
regprod (<u>codice</u> , data, ora, tm, qta, codlot, codubi)	- <i>codlot</i> chiave esterna su <i>unitprod.codice</i> - <i>codubi</i> chiave esterna su <i>prodline.codice</i>
regnc (<u>codice</u> , data, ora, tm, qta, codlot, codubi, caudef)	- <i>codlot</i> chiave esterna su <i>unitprod.codice</i> - <i>codubi</i> chiave esterna su <i>prodline.codice</i> - <i>caudef</i> chiave esterna su <i>causanc.codice</i>

Table	Foreign keys
regfm (<u>codice</u> , data, ora, tm, tmdiff, tipoevento, codubi, caufm)	- <i>codubi</i> chiave esterna su <i>prodline.codice</i> - <i>caufm</i> chiave esterna su <i>causafm.codice</i>