

LeanDA - Entity Ralationship Diagram

Shift	
PK	<u>id</u>
	*type (string, enum: [FS, SS, NS])
	*startTime (date)
	*stopTime (date)
	*daysOfWeek (number, enum:[0,1,2,3,4,5,6])
	workStations ([ref. WorkStation])
#	durationMin (virtual function)
	timestamps

WorkStationGroup	
PK	<u>id</u>
	*name (string, unique)
	*kostenstelle (string, unique)
	slug (string)
	workstations([ref. workstation])
	timestamps

Picture	
PK	<u>id</u>
	*title (string, unique)
	slug (string)
	description (string)
	*imagePath(string)
	timestamps

WorkStation	
PK	<u>id</u>
§	*name (string, unique)
ß	*WSnum (string, unique)
§	slug (string)
	*type (string, enum: [TF, HT])
	inUse (boolean, def: false)
	locked (boolean, def: false)
	shifts ([ref. Shift])
	AVOs ([ref. AVO])
	states ([ref.state])
	workStationGroup (ref. WorkStationGroup)
#	liveState (virtual function)
	picture (ref. Picture)
	timestamps

StateGroup	
PK	<u>id</u>
	*name (string, unique)
	slug (string)
	colorHex (string, def: #6200EE)
	states([ref. state])
	timestamps

PLC	
PK	<u>id</u>
	*name (string)
	slug (string)
	description (string)
	inputs ([ref. PLCinput])
	outputs ([ref. PLCoutput])
	WS (ref. WorkStation)

PLCinput	
PK	<u>id</u>
	*name (string)
	*signal (string, enum [analog, digital, relay])
	PLC (ref. PLC)

PLCoutput	
PK	<u>id</u>
	*name (string)
	*signal (string, enum [analog, digital, relay])
	PLC (ref. PLC)

Event_PLC	
PK	<u>id</u>
	*eventTime (date)
	value (number)
	PLCinput (ref. PLCinput)
	PLCoutput (ref. PLCoutput)

FAUF	
PK	<u>id</u>
	*FAUFnum (string)
	AVOs ([ref. AVO])
	timestamps

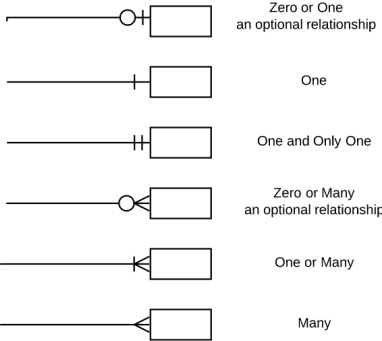
AVO	
PK	<u>id</u>
	*AVOnum (string)
	FAUF (ref. FAUF)
	sequences ([ref. Sequence])
	WS (ref. WorkStation)
	charge_num (string)
#	liveState (virtual function)
	timestamps

Sequence	
PK	<u>id</u>
	startTS (date)
	stopTS (date)
	AVO (ref. AVO)
	state (ref. State)
#	durationMin (virtual function)

Event_OEE	
PK	<u>id</u>
	*eventTime (date)
	manualParameter (number)
	sequence (ref. Sequence)

State	
PK	<u>id</u>
	*name (string, unique)
	inUse (boolean, def: true)
	stateGroup (ref. stateGroup)
	colorHex (string, def: #6200EE)
	workstations ([ref.workstation])

Legend



Legend	
PK	<u>uniqueId</u>
#	<u>calculation related</u>
ß	<u>ext. System related</u>
§	<u>gui related</u>
*	<u>required</u>