

LeanDA - Entity Ralationship Diagram

Shift	
PK	<u>id</u>
	*shiftType (string, enum: [FS, SS, NS]) startTime (date) stopTime (date) workStation (ref. WorkStation) *daysOfWeek (number, enum:[0,1,2,3,4,5,6]) # 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	*WS_num (string, unique)
§	slug (string)
	*workStationType (string, enum: [TF, HT]) inUse (boolean, def: true) unlocked (boolean, def: true) 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>
	*FAUF_num (string) AVOs ([ref. AVO]) timestamps

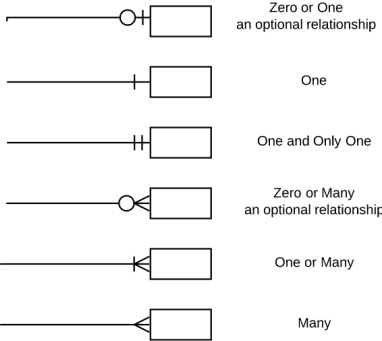
AVO	
PK	<u>id</u>
	*AVO_num (string) FAUF (ref. FAUF) sequences ([ref. Sequence]) WS (ref. WorkStation) charge_num (string) # liveState (virtual function) timestamps

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>