PFS Operational Database — Entity Relationship Diagram

pfsArm [table]
Column	Type
pfsArmId	serial not null / auto-incremented
frameId	varchar
visit	int4
spectrograph	int4
arm	varchar
armNum	int4
calibFlatId	int4
calibBiasId	int4
calibDarkId	int4
calibArcsId	int4
pfsConfigId	int8
skyModelId	int4
psfModelId	int4
flags	int4
processDate	timestamp
DRP2DVersion	varchar

Calib [table]
Column	Type
calibId	int4 not null
calibType	varchar
calibDate	timestamp
pfsDesignId	int8
spectrograph	int4
arm	varchar
exptime	float4(8, 8)
visitsInUse	varchar

Exposure [table]
Column	Type
frameId	varchar not null
visit	int4
spectrograph	int4
arm	varchar
armNum	int4
pfsConfigId	int8
ra_tel	float4(8, 8)
dec_tel	float4(8, 8)
exptime	float4(8, 8)
timeObsStart	timestamp
timeObsEnd	timestamp
mjdStart	float4(8, 8)
mjdEnd	float4(8, 8)
airmass	float4(8, 8)
seeing	float4(8, 8)
transp	float4(8, 8)
background	float4(8, 8)
moonPhase	float4(8, 8)
moonAlt	float4(8, 8)
moonSep	float4(8, 8)
throughput	float4(8, 8)
cloudConditionId	int4
focusing_error	float4(8, 8)
insRotStart	float4(8, 8)
insRotEnd	float4(8, 8)
guideError_dx	float4(8, 8)
guideError_dy	float4(8, 8)
beamSwitchModeId	int4
beamSwitchOffsetRA	float4(8, 8)
beamSwitchOffsetDec	float4(8, 8)

pfsConfig [table]
Column	Type
pfsConfigId	int8 not null
pfsDesignId	int8
ra_config	float4(8, 8)
dec_config	float4(8, 8)
pa_config	float4(8, 8)
num_sci_allocated	int4
num_cal_allocated	int4
num_sky_allocated	int4
num_guide_stars	int4
exptime	float4(8, 8)
minExptime	float4(8, 8)
alloc_num_iter	int4
alloc_elapsetime	float4(8, 8)
alloc_rms_scatter	float4(8, 8)
alloc_exectime	timestamp
observed	bool

SkyModel [table]
Column	Type
skyModelId	int4 not null
frameId	varchar
visit	int4
spectrograph	int4
arm	varchar
armNum	int4

PsfModel [table]
Column	Type
psfModelId	int4 not null
frameId	varchar
visit	int4
spectrograph	int4
arm	varchar
armNum	int4

CloudCondition [table]
Column	Type
cloudConditionId	int4 not null
name	varchar
description	varchar

BeamSwitchMode [table]
Column	Type
beamSwitchModeId	int4 not null
name	varchar
description	varchar

pfsDesign [table]
Column	Type
pfsDesignId	int8 not null
tileId	int4
num_sci_designed	int4
num_cal_designed	int4
num_sky_designed	int4
num_guide_stars	int4
exptime	float4(8, 8)
minExptime	float4(8, 8)
etsVersion	varchar
etsAssigner	varchar
etsExectime	timestamp
obsolete	bool

Visit [table]
Column	Type
visit	int4 not null
visitTypeId	int4
description	varchar

ObsFiber [table]
Column	Type
obsFiberId	bigserial not null / auto-incremented
frameId	varchar
visit	int4
pfsConfigFiberId	int8
cobraId	int4
targetId	int8
exptime	float4(8, 8)
cum_nexp	int4
cum_texp	float4(8, 8)
delta_pfi_x	float4(8, 8)
delta_pfi_y	float4(8, 8)

pfsArmObj [table]
Column	Type
pfsArmObjId	bigserial not null / auto-incremented
pfsArmId	int4
frameId	varchar
visit	int4
spectrograph	int4
armNum	int4
cobraId	int4
pfsConfigFiberId	int8
flags	int4
QATypeId	int4
QAValue	float4(8, 8)

pfsConfigFiber [table]
Column	Type
pfsConfigFiberId	bigserial not null / auto-incremented
pfsConfigId	int8
cobraId	int4
targetId	int8
pfiCenter_x	float4(8, 8)
pfiCenter_y	float4(8, 8)
mcsCenter_x	float4(8, 8)
mcsCenter_y	float4(8, 8)
motorMap	float4(8, 8)
motorNumStep	float4(8, 8)
configTime	float4(8, 8)
onSource	bool

FiberPosition [table]
Column	Type
cobraId	int4 not null
spectrograph	int4
slitId	int4
CobraCenter_x	float4(8, 8)
CobraCenter_y	float4(8, 8)

Tile [table]
Column	Type
tileId	serial not null / auto-incremented
programId	int4
tile	int4
ra_center	float4(8, 8)
dec_center	float4(8, 8)
pa	float4(8, 8)
finished	bool

pfsDesignFiber [table]
Column	Type
pfsDesignFiberId	bigserial not null / auto-incremented
pfsDesignId	int8
cobraId	int4
targetId	int8
etsCostFunction	varchar
etsCobraMovement	varchar
pfiNominal_x	float4(8, 8)
pfiNominal_y	float4(8, 8)
onSource	bool

Program [table]
Column	Type
programId	int4 not null
name	varchar
description	varchar
filler	bool

Target [table]
Column	Type
targetId	bigserial not null / auto-incremented
programId	int4
objId	int8
ra	float4(8, 8)
"dec"	float4(8, 8)
tract	int4
patch	varchar
priority	float4(8, 8)
targetTypeId	int4
catId	int4
catObjId	int8
fiberMag_g	float4(8, 8)
fiberMag_r	float4(8, 8)
fiberMag_i	float4(8, 8)
fiberMag_z	float4(8, 8)
fiberMag_Y	float4(8, 8)
fiberMag_J	float4(8, 8)
fiducialExptime	float4(8, 8)
photz	float4(8, 8)
QATypeId	int4
QALambdaMin	float4(8, 8)
QALambdaMax	float4(8, 8)
QAThreshold	float4(8, 8)
QALineFlux	float4(8, 8)
finished	bool

TargetType [table]
Column	Type
targetType	int4 not null
name	varchar
description	varchar

InputCatalog [table]
Column	Type
catId	int4 not null
name	varchar
description	varchar

VisitsToCombine [table]
Column	Type
visitsToCombineId	bigserial not null / auto-incremented
targetid	int8
visit	int4
pfsVisitHash	int8

SpecLine [table]
Column	Type
specLineId	int4 not null
pfsObjectId	varchar
lineId	int4
wavelength	float4(8, 8)
z	float4(8, 8)
sigma	float4(8, 8)
area	float4(8, 8)
ew	float4(8, 8)
contlevel	float4(8, 8)
chi2	float4(8, 8)

LineList [table]
Column	Type
lineId	int4 not null
name	varchar
wavelength	float4(8, 8)

VisitHash [table]
Column	Type
pfsVisitHash	int8 not null
visit	int4

pfsObject [table]
Column	Type
pfsObjectId	varchar not null
targetId	int8
tract	int4
patch	varchar
catId	int4
objId	int8
nVisit	int4
pfsVisitHash	int8
cum_texp	float4(8, 8)
processDate	timestamp
pipeline2DVersion	varchar
fluxCalibId	int4
flags	int4
QATypeId	int4
QAValue	float4(8, 8)

SpecParam [table]
Column	Type
specParamId	int4 not null
pfsObjectId	varchar
redshift	float4(8, 8)
z_mean	float4(8, 8)
z_median	float4(8, 8)
z_percentileXX	float4(8, 8)
objTypeId	int4
flags	int4
processDate	timestamp
DRP1DVersion	varchar

FluxCalib [table]
Column	Type
fluxCalibId	int4 not null
fluxCalibType	varchar
fluxCalibDate	timestamp
fluxCalibStarTeff	float4(8, 8)
fluxCalibStarLogg	float4(8, 8)
fluxCalibStarZ	float4(8, 8)

ObjType [table]
Column	Type
objTypeId	int4 not null
name	varchar
description	varchar

StarSpecParam [table]
Column	Type
starSpecParamId	int4 not null
pfsObjectId	varchar not null
starTypeId	int4
velocity	float4(8, 8)
metallicity	float4(8, 8)
logg	float4(8, 8)
teff	float4(8, 8)
flags	int4
processDate	timestamp
DRPGAVersion	varchar

QAType [table]
Column	Type
QATypeId	int4 not null
name	varchar
description	varchar

StarType [table]
Column	Type
starTypeId	int4 not null
name	varchar
description	varchar