pfs_design_agc [table]	
pfs_design_id	int8 not null
guide_star_id	int8 not null
epoch	varchar
guide_star_ra	float8(17, 17)
guide_star_dec	float8(17, 17)
guide_star_pm_ra	float4(8, 8)
guide_star_pm_dec	float4(8, 8)
guide_star_parallax	float4(8, 8)
guide_star_magnitude	float4(8, 8)
passband	varchar
guide_star_color	float4(8, 8)
agc_camera_id	int4
agc_target_x_pix	float4(8, 8)
agc_target_y_pix	float4(8, 8)
comments	varchar

pfs_design_fiber [table]	
pfs_design_id	int8 not null
fiber_id	int4 not null
target_cat_id	int4
target_tract	int4
target_patch	varchar
target_obj_id	int8
target_ra	float8(17, 17)
target_dec	float8(17, 17)
target_type	int4
fiber_status	int4
pfi_nominal_x_mm	float4(8, 8)
pfi_nominal_y_mm	float4(8, 8)
ets_priority	int4
ets_cost_function	float8(17, 17)
ets_cobra_motor_movement	varchar
is_on_source	bool
comments	varchar

pfs_design [table]	
pfs_design_id	int8 not null
design_name	varchar
tile_id	int4
ra_center_designed	float8(17, 17)
dec_center_designed	float8(17, 17)
pa_designed	float4(8, 8)
num_sci_designed	int4
num_cal_designed	int4
num_sky_designed	int4
num_guide_stars	int4
exptime_tot	float4(8, 8)
exptime_min	float4(8, 8)
ets_version	varchar
ets_assigner	varchar
designed_at	timestamp
to_be_observed_at	timestamp
is_obsolete	bool

pfs_config_fiber [table]	
pfs_design_id	int8 not null
visit0	int4 not null
fiber_id	int4 not null
pfi_center_final_x_mm	float4(8, 8)
pfi_center_final_y_mm	float4(8, 8)
motor_map_summary	varchar
config_elapsed_time	float4(8, 8)
is_on_source	bool
comments	varchar

pfs_config [table]	
pfs_design_id	int8 not null
visit0	int4 not null
ra_center_config	float8(17, 17)
dec_center_config	float8(17, 17)
pa_config	float4(8, 8)
converg_num_iter	int4
converg_elapsed_time	float4(8, 8)
alloc_rms_scatter	float4(8, 8)
allocated_at	timestamp
was_observed	bool

pfs_config_agc [table]	
pfs_design_id	int8 not null
visit0	int4 not null
guide_star_id	int8 not null
agc_camera_id	int4
agc_final_x_pix	float4(8, 8)
agc_final_y_pix	float4(8, 8)
comments	varchar

calib [table]	
calib_id	bigserial not null auto-incremented
calib_type	varchar
sps_frames_to_use	varchar
pfs_design_id	int8
calib_date	timestamp

calib_set [table]	
calib_set_id	serial not null auto-incremented
calib_flat_id	int4
calib_bias_id	int4
calib_dark_id	int4
calib_arcs_id	int4

sps_sequence [table]	
visit_set_id	int4 not null
sequence_type	varchar
name	varchar
comments	varchar
cmd_str	varchar
status	varchar

fiducial_fiber [table]	
fiducial_fiber_id	int4 not null
field_on_pfi	int4
ff_in_field	int4
ff_type	varchar(5)
ff_id_in_type	int4
version	varchar

fiducial_fiber_geometry [table]	
fiducial_fiber_id	int4 not null
fiducial_fiber_calib_id	int4 not null
ff_center_on_pfi_x_mm	float4(8, 8)
ff_center_on_pfi_y_mm	float4(8, 8)
elevation	float4(8, 8)
ambient_temp	float4(8, 8)

fiducial_fiber_calib [table]	
fiducial_fiber_calib_id	serial not null auto-incremented
calibrated_at	timestamp
comments	varchar

obs_condition [table]	
pfs_visit_id	int4 not null
status_sequence_id	int4 not null
airmass	float4(8, 8)
moon_phase	float4(8, 8)
moon_alt	float4(8, 8)
moon_sep	float4(8, 8)
seeing	float4(8, 8)
transparency	float4(8, 8)
cloud_condition_id	int4
created_at	timestamp

cloud_condition [table]	
cloud_condition_id	int4 not null
cloud_condition_name	varchar
cloud_condition_description	varchar
created_at	timestamp
updated_at	timestamp

sky_model [table]	
sky_model_id	int4 not null
pfs_visit_id	int4
sps_camera_id	int4

psf_model [table]	
psf_model_id	int4 not null
pfs_visit_id	int4
sps_camera_id	int4

pfs_arm [table]	
pfs_visit_id	int4 not null
calib_set_id	int4
sky_model_id	int4
psf_model_id	int4
flags	int4
processed_at	timestamp
drp2d_version	varchar

sps_module [table]	
sps_module_id	int4 not null
description	varchar

sps_camera [table]	
sps_camera_id	int4 not null
sps_camera_name	varchar(2)
sps_module_id	int4
sps_module_name	varchar(3)
arm	varchar(1)
arm_num	int4

obs_fiber [table]	
pfs_visit_id	int4 not null
cobra_id	int4 not null
target_id	int8
exptime	float4(8, 8)
cum_nexp	int4
cum_texp	float4(8, 8)

cobra [table]	
cobra_id	int4 not null
field_on_pfi	int4
cobra_in_field	int4
cobra_module_id	int4
module_in_field	int4
cobra_in_module	int4
cobra_in_board	int4
cobra_board_id	int4
mtp	varchar(3)
sps_module_id	int4
sps_slit_hole	int4
science_fiber_id	int4
fiber_id	int4
sunss_id	varchar(4)
mtp_a_id	varchar
mtp_c_id	varchar
mtp_ba_id	varchar
mtp_bc_id	varchar
version	varchar
created_at	timestamp
updated_at	timestamp

pfs_arm_obj [table]	
pfs_visit_id	int4 not null
cobra_id	int4 not null
flags	int4
qa_type_id	int4
qa_value	float4(8, 8)

sps_exposure [table]	
pfs_visit_id	int4 not null
sps_camera_id	int4 not null
exptime	float4(8, 8)
time_exp_start	timestamp
time_exp_end	timestamp
beam_config_date	float8(17, 17)

sps_annotation [table]	
annotation_id	serial not null auto-incremented
pfs_visit_id	int4
sps_camera_id	int4
data_flag	int4
notes	varchar
created_at	timestamp

sps_condition [table]	
pfs_visit_id	int4 not null
sps_camera_id	int4 not null
background	float4(8, 8)
throughput	float4(8, 8)

sps_visit [table]	
pfs_visit_id	int4 not null
exp_type	varchar

tile [table]	
tile_id	serial not null auto-incremented
program_id	int4
tile	int4
ra_center	float8(17, 17)
dec_center	float8(17, 17)
pa	float4(8, 8)
is_finished	bool

mcs_boresight [table]	
pfs_visit_id	int4 not null
mcs_boresight_x_pix	float4(8, 8)
mcs_boresight_y_pix	float4(8, 8)
calculated_at	timestamp

processing_status [table]	
status_id	int4 not null
visit_set_id	int4
pfs_visit_id	int4
are_data_ok	bool
comments	varchar
drp2d_version	varchar
qa_version	varchar

pfs_visit [table]	
pfs_visit_id	int4 not null
pfs_visit_description	varchar
pfs_design_id	int8
issued_at	timestamp

tel_status [table]	
pfs_visit_id	int4 not null
status_sequence_id	int4 not null
altitude	float4(8, 8)
azimuth	float4(8, 8)
insrot	float4(8, 8)
adc_pa	float4(8, 8)
m2_pos3	float4(8, 8)
tel_ra	float4(8, 8)
tel_dec	float4(8, 8)
dome_shutter_status	int4
dome_light_status	int4
created_at	timestamp

cobra_target [table]	
pfs_visit_id	int4 not null
iteration	int4 not null
cobra_id	int4 not null
pfs_config_id	int8
pfi_nominal_x_mm	float4(8, 8)
pfi_nominal_y_mm	float4(8, 8)
pfi_target_x_mm	float4(8, 8)
pfi_target_y_mm	float4(8, 8)
cobra_motor_model_id_theta	int4
motor_target_theta	float4(8, 8)
motor_num_step_theta	int4
motor_on_time_theta	float4(8, 8)
cobra_motor_model_id_phi	int4
motor_target_phi	float4(8, 8)
motor_num_step_phi	int4
motor_on_time_phi	float4(8, 8)
flags	int4

cobra_match [table]	
pfs_visit_id	int4 not null
iteration	int4 not null
cobra_id	int4 not null
mcs_frame_id	int4
spot_id	int4
pfi_center_x_mm	float4(8, 8)
pfi_center_y_mm	float4(8, 8)
flags	int4

cobra_geometry [table]	
cobra_motor_calib_id	int4 not null
cobra_id	int4 not null
cobra_center_on_pfi_x_mm	float4(8, 8)
cobra_center_on_pfi_y_mm	float4(8, 8)
cobra_distance_from_center_mm	float4(8, 8)
cobra_motor_theta_limit0	float4(8, 8)
cobra_motor_theta_limit1	float4(8, 8)
cobra_motor_theta_length	float4(8, 8)
cobra_motor_phi_limit_in	float4(8, 8)
cobra_motor_phi_limit_out	float4(8, 8)
cobra_motor_phi_length	float4(8, 8)
cobra_status	varchar

mcs_data [table]	
mcs_frame_id	int4 not null
spot_id	int4 not null
mcs_center_x_pix	float4(8, 8)
mcs_center_y_pix	float4(8, 8)
mcs_second_moment_x_pix	float4(8, 8)
mcs_second_moment_y_pix	float4(8, 8)
mcs_second_moment_xy_pix	float4(8, 8)
bgvalue	float4(8, 8)
peakvalue	float4(8, 8)

mcs_pfi_transformation [table]	
mcs_frame_id	int4 not null
x_trans	float4(8, 8)
y_trans	float4(8, 8)
x_scale	float4(8, 8)
y_scale	float4(8, 8)
angle	float4(8, 8)

camera_model_f3c_mcs [table]	
mcs_frame_id	int4 not null
matrix	_float4
distor	_float4
rot_vector	_float4
tran_vector	_float4

env_condition [table]	
pfs_visit_id	int4 not null
status_sequence_id	int4 not null
dome_temperature	float4(8, 8)
dome_pressure	float4(8, 8)
dome_humidity	float4(8, 8)
outside_temperature	float4(8, 8)
outside_pressure	float4(8, 8)
outside_humidity	float4(8, 8)
created_at	timestamp

mcs_exposure [table]	
mcs_frame_id	int4 not null
pfs_visit_id	int4
mcs_exptime	float4(8, 8)
altitude	float4(8, 8)
azimuth	float4(8, 8)
insrot	float4(8, 8)
adc_pa	float4(8, 8)
dome_temperature	float4(8, 8)
dome_pressure	float4(8, 8)
dome_humidity	float4(8, 8)
outside_temperature	float4(8, 8)
outside_pressure	float4(8, 8)
outside_humidity	float4(8, 8)
mcs_cover_temperature	float4(8, 8)
mcs_m1_temperature	float4(8, 8)
mcs_camera_id	int4
taken_at	timestamp
taken_in_hst_at	timestamp

proposal [table]	
proposal_id	varchar not null
created_at	timestamp
updated_at	timestamp

program [table]	
program_id	int4 not null
program_name	varchar
program_description	varchar
proposal_id	varchar
is_filler	bool
created_at	timestamp
updated_at	timestamp

mcs_camera [table]	
mcs_camera_id	int4 not null
mcs_camera_name	varchar
comments	varchar

obslog_visit_note [table]	
id	serial not null auto-incremented
user_id	int4
pfs_visit_id	int4
body	varchar not null

obslog_mcs_exposure_note [table]	
id	serial not null auto-incremented
user_id	int4
mcs_exposure_frame_id	int4
body	varchar not null

cobra_motor_calib [table]	
cobra_motor_calib_id	serial not null auto-incremented
calibrated_at	timestamp
comments	varchar

visit_set [table]	
pfs_visit_id	int4 not null
visit_set_id	int4

obslog_user [table]	
id	serial not null auto-incremented
account_name	varchar not null

cobra_motor_model [table]	
cobra_motor_model_id	serial not null auto-incremented
cobra_motor_calib_id	int4
cobra_id	int4
cobra_motor_axis_id	int4
cobra_motor_direction_id	int4
cobra_motor_on_time	float4(8, 8)
cobra_motor_step_size	float4(8, 8)
cobra_motor_frequency	float4(8, 8)

cobra_motor_map [table]	
cobra_motor_model_id	int4 not null
cobra_motor_move_sequence	int4 not null
cobra_motor_angle	float4(8, 8)
cobra_motor_speed	float4(8, 8)

cobra_convergence_test [table]	
cobra_motor_model_id	int4 not null
iteration	int4 not null
cobra_motor_angle_target_id	int4 not null
cobra_motor_angle_target	float4(8, 8)
cobra_motor_angle_difference	float4(8, 8)
signal_to_noise_ratio	float4(8, 8)

cobra_motor_axis [table]	
cobra_motor_axis_id	int4 not null
cobra_motor_axis_name	varchar

cobra_motor_direction [table]	
cobra_motor_direction_id	int4 not null
cobra_motor_direction_name	varchar

iic_sequence [table]	
visit_set_id	int4 not null
sequence_type	varchar
name	varchar
comments	varchar
cmd_str	varchar

visits_to_combine [table]	
pfs_visit_id	int4 not null
pfs_visit_hash	int8 not null

visit_hash [table]	
pfs_visit_hash	int8 not null
n_visit	int4

obslog_visit_set_note [table]	
id	serial not null auto-incremented
user_id	int4
visit_set_id	int4
body	varchar not null

target [table]	
target_id	bigserial not null auto-incremented
program_id	int4
obj_id	int8
ra	float8(17, 17)
decl	float8(17, 17)
tract	int4
patch	varchar
priority	float4(8, 8)
target_type_id	int4
cat_id	int4
cat_obj_id	int8
fiber_mag_g	float4(8, 8)
fiber_mag_r	float4(8, 8)
fiber_mag_i	float4(8, 8)
fiber_mag_z	float4(8, 8)
fiber_mag_y	float4(8, 8)
fiber_mag_j	float4(8, 8)
fiducial_exptime	float4(8, 8)
photz	float4(8, 8)
is_medium_resolution	bool
qa_type_id	int4
qa_lambda_min	float4(8, 8)
qa_lambda_max	float4(8, 8)
qa_threshold	float4(8, 8)
qa_line_flux	float4(8, 8)
completeness	float4(8, 8)
is_finished	bool
created_at	timestamp
updated_at	timestamp

target_type [table]	
target_type_id	int4 not null
target_type_name	varchar
target_type_description	varchar
created_at	timestamp
updated_at	timestamp

qa_type [table]	
qa_type_id	int4 not null
qa_type_name	varchar
qa_type_description	varchar
created_at	timestamp
updated_at	timestamp

star_type [table]	
star_type_id	int4 not null
star_type_name	varchar
star_type_description	varchar
created_at	timestamp
updated_at	timestamp

ic_sequence_status [table]	
visit_set_id	int4 not null
status_flag	int4
cmd_output	varchar

drp_qa [table]	
pfs_object_id	int8 not null
star_type_id	int4
velocity	float4(8, 8)
metallicity	float4(8, 8)
logg	float4(8, 8)
teff	float4(8, 8)
flags	int4
processed_at	timestamp not null
drp_qa_version	varchar

pfs_object [table]	
pfs_object_id	bigserial not null auto-incremented
target_id	int8
tract	int4
patch	varchar
cat_id	int4
obj_id	int8
n_visit	int4
pfs_visit_hash	int8
cum_texp	float4(8, 8)
processed_at	timestamp
drp2d_version	varchar
flux_calib_id	int4
flags	int4
qa_type_id	int4
qa_value	float4(8, 8)

input_catalog [table]	
cat_id	int4 not null
input_catalog_name	varchar
input_catalog_description	varchar
created_at	timestamp
updated_at	timestamp

flux_calib [table]	
flux_calib_id	int4 not null
flux_calib_type	varchar
flux_calib_date	timestamp
flux_calib_star_teff	float4(8, 8)
flux_calib_star_logg	float4(8, 8)
flux_calib_star_z	float4(8, 8)

drp1d [table]	
pfs_object_id	int8 not null
z_best	float4(8, 8)
z_best_err	float4(8, 8)
z_best_reliability	float4(8, 8)
obj_type_id	int4
flags	int4
processed_at	timestamp not null
drp1d_version	varchar

drp1d_redshift [table]	
pfs_object_id	int8 not null
z	float4(8, 8)
z_err	float4(8, 8)
zrank	float4(8, 8)
reliability	float4(8, 8)
spec_class	varchar
spec_subclass	varchar
processed_at	timestamp not null

guide_stars [table]	
guide_star_id	int8 not null
ra	float8(17, 17)
decl	float8(17, 17)
cat_id	int4
obj_type_id	int4
mag_agc	float4(8, 8)
flux_agc	float4(8, 8)
flags	int4
created_at	timestamp
updated_at	timestamp

drp1d_line [table]	
pfs_object_id	int8 not null
line_id	int4 not null
line_name	varchar
line_wave	float4(8, 8)
line_z	float4(8, 8)
line_z_err	float4(8, 8)
line_sigma	float4(8, 8)
line_sigma_err	float4(8, 8)
line_vel	float4(8, 8)
line_vel_err	float4(8, 8)
line_flux	float4(8, 8)
line_flux_err	float4(8, 8)
line_ew	float4(8, 8)
line_ew_err	float4(8, 8)
line_cont_level	float4(8, 8)
line_cont_level_err	float4(8, 8)
processed_at	timestamp not null

obj_type [table]	
obj_type_id	int4 not null
obj_type_name	varchar
obj_type_description	varchar
created_at	timestamp
updated_at	timestamp

line_list [table]	
line_id	int4 not null
line_name	varchar
line_wavelength	float4(8, 8)
created_at	timestamp
updated_at	timestamp

beam_switch_mode [table]	
beam_switch_mode_id	int4 not null
beam_switch_mode_name	varchar
beam_switch_mode_description	varchar

agc_exposure [table]	
agc_exposure_id	int4 not null
pfs_visit_id	int4
agc_exptime	float4(8, 8)
altitude	float4(8, 8)
azimuth	float4(8, 8)
insrot	float4(8, 8)
adc_pa	float4(8, 8)
m2_pos3	float4(8, 8)
outside_temperature	float4(8, 8)
outside_pressure	float4(8, 8)
outside_humidity	float4(8, 8)
taken_at	timestamp

agc_data [table]	
agc_exposure_id	int4 not null
agc_camera_id	int4 not null
spot_id	int4 not null
image_moment_00_pix	float4(8, 8)
centroid_x_pix	float4(8, 8)
centroid_y_pix	float4(8, 8)
central_image_moment_11_pix	float4(8, 8)
central_image_moment_20_pix	float4(8, 8)
central_image_moment_02_pix	float4(8, 8)
peak_pixel_x_pix	int4
peak_pixel_y_pix	int4
peak_intensity	float4(8, 8)
background	float4(8, 8)
flags	int4

agc_match [table]	
agc_exposure_id	int4 not null
agc_camera_id	int4 not null
spot_id	int4 not null
pfs_design_id	int8
guide_star_id	int8
agc_nominal_x_mm	float4(8, 8)
agc_nominal_y_mm	float4(8, 8)
agc_center_x_mm	float4(8, 8)
agc_center_y_mm	float4(8, 8)
flags	int4

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