ER Diagram: COMPACT

user_labels
- id: *INT*
- fold_candidate_id: *INT*
- rfi: *TINYINT*
- noise: *TINYINT*
- t1_cand: *TINYINT*
- t2_cand: *TINYINT*
- known_pulsar: *TINYINT*
- nb_psr: *TINYINT*
- is_harmonic: *TINYINT*
- is_confirmed_pulsar: *TINYINT*
- pulsar_name: *VARCHAR*

fold_candidate
- id: *INT*
- pointing_id: *INT*
- beam_id: *INT*
- processing_id: *INT*
- spin_period: *DECIMAL*
- dm: *DECIMAL*
- acc: *DECIMAL*
- jerk: *DECIMAL*
- omega: *DECIMAL*
- tau: *DECIMAL*
- phi: *DECIMAL*
- long_periastron: *DECIMAL*
- ecc: *DECIMAL*
- fold_snr: *DECIMAL*
- filename: *VARCHAR*
- filepath: *VARCHAR*
- file_type_id: *INT*
- search_candidate_id: *INT*
- metadata_hash: *VARCHAR*

beam_antenna
- id: *INT*
- antenna_id: *INT*
- beam_id: *INT*
- description: *VARCHAR*

search_candidate
- id: *INT*
- pointing_id: *INT*
- beam_id: *INT*
- processing_id: *INT*
- spin_period: *DECIMAL*
- dm: *DECIMAL*
- acc: *DECIMAL*
- jerk: *DECIMAL*
- omega: *DECIMAL*
- tau: *DECIMAL*
- phi: *DECIMAL*
- long_periastron: *DECIMAL*
- ecc: *DECIMAL*
- snr: *DECIMAL*
- ddm_count_ratio: *DECIMAL*
- ddm_snr_ratio: *DECIMAL*
- nassoc: *INT*
- tstart: *DECIMAL*
- fft_size: *BIGINT*
- filename: *VARCHAR*
- filepath: *VARCHAR*
- nh: *INT*
- candidate_filter_id: *INT*
- metadata_hash: *VARCHAR*

data_product
- id: *INT*
- pointing_id: *INT*
- beam_id: *INT*
- processing_id: *INT*
- file_type_id: *INT*
- filename: *VARCHAR*
- filepath: *VARCHAR*
- filehash: *VARCHAR*
- available: *TINYINT*
- upload_date: *DATETIME*
- modification_date: *DATETIME*
- metainfo: *VARCHAR*
- locked: *TINYINT*
- created_by: *VARCHAR*
- beam_type_id: *INT*
- target_id: *INT*
- utc_start: *DATETIME*
- tsamp_seconds: *DECIMAL*
- tobs_seconds: *DECIMAL*
- nsamples: *BIGINT*
- freq_start_mhz: *DECIMAL*
- freq_end_mhz: *DECIMAL*

antenna
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*
- telescope_id: *INT*
- latitude_degrees: *FLOAT*
- longitude_degrees: *FLOAT*
- elevation_meters: *FLOAT*

beam
- id: *INT*
- name: *VARCHAR*
- ra_str: *VARCHAR*
- dec_str: *VARCHAR*
- pointing_id: *INT*
- beam_type_id: *INT*
- tsamp_seconds: *DECIMAL*
- is_coherent: *TINYINT*

candidate_filter
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*

processing
- id: *INT*
- pipeline_id: *INT*
- hardware_id: *INT*
- submit_time: *DATETIME*
- start_time: *DATETIME*
- end_time: *DATETIME*
- process_status: *VARCHAR*
- attempt_number: *INT*
- max_attempts: *INT*
- pipeline_execution_order_id: *INT*

file_type
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*
- context: *ENUM*

pointing
- id: *INT*
- utc_start: *DATETIME*
- tobs_seconds: *DECIMAL*
- nchan_raw: *INT*
- freq_band: *VARCHAR*
- target_id: *INT*
- freq_start_mhz: *DECIMAL*
- freq_end_mhz: *DECIMAL*
- tsamp_raw_seconds: *DECIMAL*
- telescope_id: *INT*
- receiver: *VARCHAR*

beam_type
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*

hardware
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*
- job_scheduler: *VARCHAR*

pipeline_execution_order
- id: *INT*
- pipeline_id: *INT*
- program_name: *VARCHAR*
- peasoup_id: *INT*
- pulsarx_id: *INT*
- prepfold_id: *INT*
- filtool_id: *INT*
- execution_order: *INT*
- circular_orbit_search_id: *INT*
- elliptical_orbit_search_id: *INT*
- rfifind_id: *INT*

telescope
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*

target
- id: *INT*
- target_name: *VARCHAR*
- ra: *VARCHAR*
- dec: *VARCHAR*
- notes: *VARCHAR*
- project_id: *INT*
- core_radius_arcmin_harris: *FLOAT*
- core_radius_arcmin_baumgardt: *FLOAT*
- half_mass_radius_arcmin_harris: *FLOAT*
- half_mass_radius_arcmin_baumgardt: *FLOAT*
- half_light_radius_arcmin_harris: *FLOAT*
- half_light_radius_arcmin_baumgardt: *FLOAT*

project
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*

pipeline
- id: *INT*
- name: *VARCHAR*
- description: *VARCHAR*
- github_repo_name: *VARCHAR*
- github_commit_hash: *CHAR*
- github_branch: *VARCHAR*

peasoup
- id: *INT*
- acc_start: *DECIMAL*
- acc_end: *DECIMAL*
- min_snr: *DECIMAL*
- ram_limit_gb: *DECIMAL*
- nharmonics: *INT*
- ngpus: *INT*
- total_cands_limit: *INT*
- fft_size: *BIGINT*
- dm_file: *VARCHAR*
- accel_tol: *DECIMAL*
- birdie_list: *VARCHAR*
- chan_mask: *VARCHAR*
- extra_args: *VARCHAR*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*

pulsarx
- id: *INT*
- subbands_number: *INT*
- subint_length: *DECIMAL*
- cl0d_sj_value: *DECIMAL*
- fast_nbins: *INT*
- slow_nbins: *INT*
- rfi_filter: *VARCHAR*
- extra_args: *VARCHAR*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- threads: *INT*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*

prepfold
- id: *INT*
- ncpus: *INT*
- rfifind_mask: *VARCHAR*
- extra_args: *VARCHAR*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*

filtool
- id: *INT*
- rfi_filter: *VARCHAR*
- telescope_name: *VARCHAR*
- threads: *INT*
- extra_args: *VARCHAR*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*

circular_orbit_search
- id: *INT*
- min_porb_h: *DECIMAL*
- max_porb_h: *DECIMAL*
- min_pulsar_mass_rn0: *DECIMAL*
- max_comp_mass_rn0: *DECIMAL*
- min_orb_phase_rad: *DECIMAL*
- max_orb_phase_rad: *DECIMAL*
- coverage: *DECIMAL*
- mismatch: *DECIMAL*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*

elliptical_orbit_search
- id: *INT*
- min_porb_h: *DECIMAL*
- max_porb_h: *DECIMAL*
- min_pulsar_mass_rn0: *DECIMAL*
- max_comp_mass_rn0: *DECIMAL*
- min_orb_phase_rad: *DECIMAL*
- max_orb_phase_rad: *DECIMAL*
- min_ecc: *DECIMAL*
- max_ecc: *DECIMAL*
- min_periastron_rad: *DECIMAL*
- max_periastron_rad: *DECIMAL*
- coverage: *DECIMAL*
- mismatch: *DECIMAL*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*

rfifind
- id: *INT*
- time: *DECIMAL*
- time_sigma: *DECIMAL*
- freq_sigma: *DECIMAL*
- chan_frac: *DECIMAL*
- int_frac: *DECIMAL*
- ncpus: *INT*
- extra_args: *VARCHAR*
- container_image_name: *VARCHAR*
- container_image_version: *VARCHAR*
- container_type: *VARCHAR*
- argument_hash: *VARCHAR*
- container_image_id: *VARCHAR*