Green: used in final deployment Yellow: initially read, unused because of data issues (missing data, data leakage concern, etc.) Blue: used for cleaning / exploration but not considered as a feature/target seq_of_events aircraft events dt aircraft PK,FK1 ev id PK,FK1 ev_id PΚ ev_id PK,FK1 ev_id PK,FK1 <u>Aircraft_Key</u> PK <u> Aircraft_Key</u> PK,FK1 Aircraft_Key PK Occurrence_No ntsb_no PK PK col_name seq_event_no regis_no ev_type PK <u>code</u> PK group_code ntsb no ev_date acft_missing ev_dow Ichg date Subj_Code far_part ev_time Ichg_userid Cause_Factor flt_plan_filed ev_tmzn Modifier_Code flight_plan_activated ev_city Person_Code engines damage ev_state Ichg_date acft_fire ev_country PK,FK1 <u>ev_id</u> lchg_userid acft_expl ev_site_zipcode PK,FK1 Aircraft_Key acft_make ev_year PΚ eng_no acft model ev_month acft series mid_air eng_type acft_serial_no on_ground_collision eng_mfgr Occurrences cert_max_gr_wt latitude eng_model acft_category longitude power_units PK Occurrence_No acft_reg_cls latlong_acq hp_or_lbs homebuilt apt_name Ichg_userid Occurrence_Code fc_seats ev_nr_apt_id Ichg_date Phase_of_Flight cc_seats ev_nr_apt_loc carb_fuel_injection Altitude pax_seats apt_dist propeller_type Ichg_date total_seats apt_dir propeller_make Ichg_userid apt_elev propeller_model FK1 ev_id fixed_retractable wx_brief_comp eng_time_total FK1 Aircraft_Key type_last_insp wx_src_iic eng_time_last_insp date_last_insp wx_obs_time eng_time_overhaul afm_hrs_last_insp wx_obs_dir afm hrs wx_obs_fac_id **Events Sequence** elt_install injury wx_obs_elev elt_oper PK Occurrence No wx_obs_dist PK,FK1 <u>ev_id</u> elt_aided_loc_ev wx_obs_tmzn PK,FK1 Aircraft_Key elt_type Occurrence_Code light_cond PΚ inj_person_category owner_acft Occurrence_Description sky_cond_nonceil PΚ <u>injury_level</u> owner_street phase_no sky_nonceil_ht owner city eventsoe_no sky_ceil_ht inj_person_count Defining_ev owner_state sky_cond_ceil Ichg_date owner_country Ichg_date vis_rvr lchg_userid owner_zip lchg_userid vis_rvv oper_individual_name vis_sm oper_name wx_temp oper_same wx_dew_pt Flight_Crew oper_dba wind_dir_deg flight_time oper_addr_same PK,FK1 wind_dir_ind ev_id PK,FK1 oper_street PK,FK1 <u>ev id</u> Aircraft_Key wind_vel_kts PK PK,FK1 Aircraft_Key oper_city crew_no wind_vel_ind PK,FK1 oper_state crew_no gust_ind crew_category oper_country PΚ flight_type gust_kts oper_zip PK flight_craft crew age altimeter oper_code crew_sex wx_dens_alt certs_held flight_hours crew_city wx_int_precip lchg_date oprtng_cert crew_res_state metar crew_res_country lchg_userid oper_cert ev_highest_injury oper_cert_num med certf inj_f_grnd oper_sched med_crtf_vldty inj_m_grnd oper_dom_int date_lst_med inj_s_grnd oper_pax_cargo crew_rat_endorse inj_tot_f dt_Flight_Crew type_fly crew_inj_level inj_tot_m second pilot seatbelts_used inj_tot_n PK,FK1 <u>ev_id</u> dprt_pt_same_ev shldr harn used inj_tot_s PK,FK1 Aircraft Key dprt_apt_id crew tox perf inj_tot_t PK,FK1 crew_no dprt_city seat_occ_pic invest_agy PΚ col_name pc_profession dprt_state ntsb_docket PΚ <u>code</u> dprt_country $ntsb_notf_from$ bfr dprt_time bfr_date ntsb_notf_date Ichg_date dprt_timezn ft_as_of ntsb_notf_tm lchg_userid dest_same_local Ichg_date fiche_number dest_apt_id lchg_userid Ichg_date dest_city lchg_userid seat_occ_row dest_state infl_rest_inst wx_cond_basic dest_country infl_rest_depl faa_dist_office phase_flt_spec child_restraint report to icao med_crtf_limit narratives evacuation mr_faa_med_certf Ichg_date pilot_flying PK,FK1 <u>ev_id</u> NTSB_Admin lchg_userid available restraint PK,FK1 Aircraft_Key afm_hrs_since restraint_used PK,FK1 ev_id rwy_num narr_accp rwy_len narr_accf rec_stat rwy_width **Findings** narr_cause approval_date site_seeing narr_inc lchg_userid PK,FK1 air_medical <u>ev_id</u> Ichg_date Ichg_date med_type_flight PK,FK1 Aircraft_Key lchg_userid acft_year PΚ finding_no fuel_on_board dt_events commercial_space_flight finding_code unmanned finding_description PK,FK1 <u>ev_id</u> ifr_equipped_cert PΚ category_no col_name elt_mounted_aircraft PΚ subcategory_no <u>code</u> elt_connected_antenna section_no elt_manufacturer subsection_no Ichg_date elt_model modifier_no lchg_userid elt_reason_other Cause_Factor Ichg_date lchg_userid