Layouts

1. MEDIASpelagicTrawl 1

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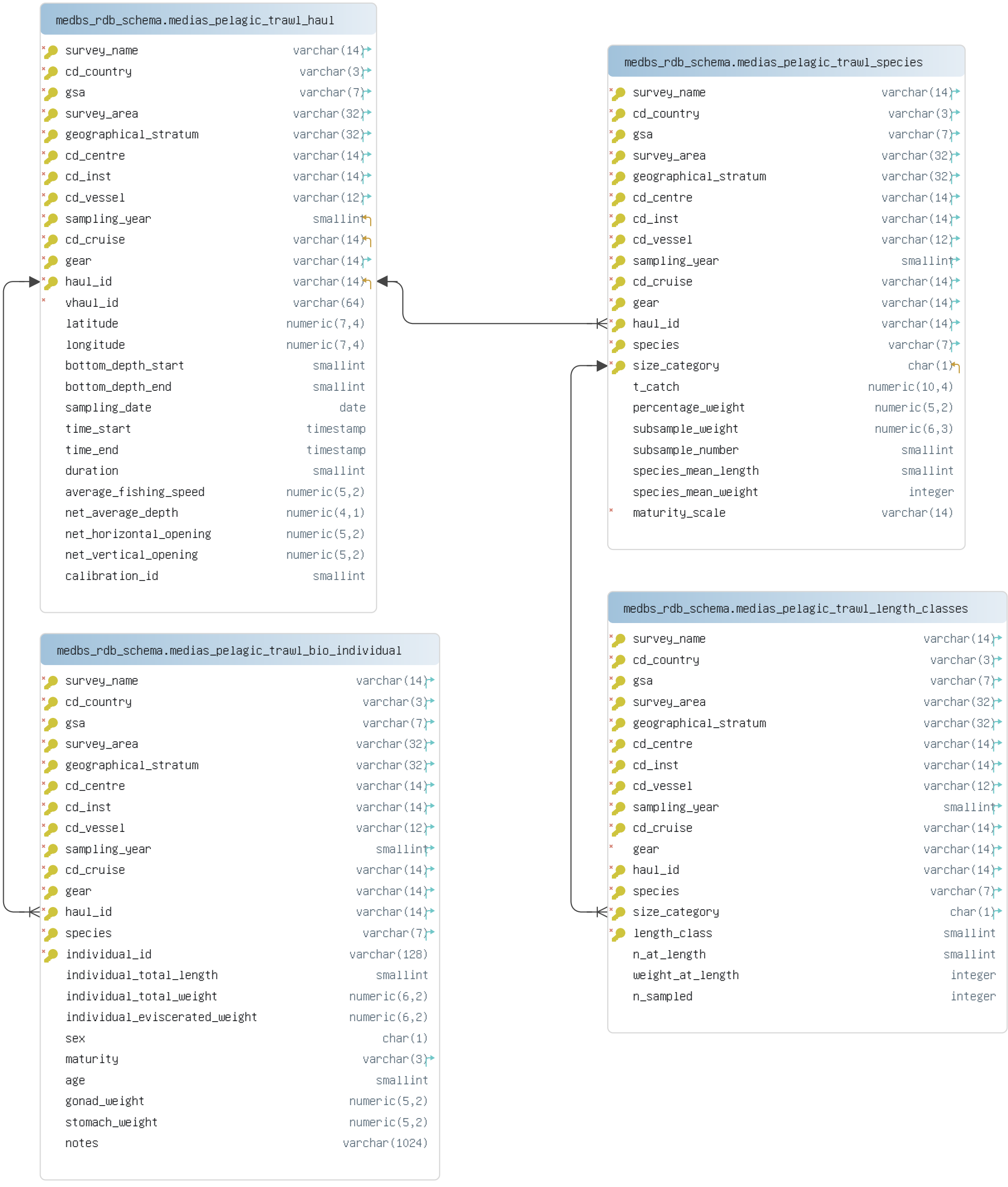
medbs_rdb_schema.medias_pelagic_trawl_haul
survey_name varchar(14)
cd_country varchar(3)
gsa varchar(7)
survey_area varchar(32)
geographical_stratum varchar(32)
cd_centre varchar(14)
cd_inst varchar(14)
cd_vessel varchar(12)
sampling_year smallint
cd_cruise varchar(14)
gear varchar(14)
haul_id varchar(14)
vhaul_id varchar(64)
latitude numeric(7,4)
longitude numeric(7,4)
bottom_depth_start smallint
bottom_depth_end smallint
sampling_date date
time_start timestamp
time_end timestamp
duration smallint
average_fishing_speed numeric(5,2)
net_average_depth numeric(4,1)
net_horizontal_opening numeric(5,2)
net_vertical_opening numeric(5,2)
calibration_id smallint
medbs_rdb_schema.medias_pelagic_trawl_species
survey_name varchar(14)
cd_country varchar(3)
gsa varchar(7)
survey_area varchar(32)
geographical_stratum varchar(32)
cd_centre varchar(14)
cd_inst varchar(14)
cd_vessel varchar(12)
sampling_year smallint
cd_cruise varchar(14)
gear varchar(14)
haul_id varchar(14)
species varchar(7)
size_category char(1)
t_catch numeric(10,4)
percentage_weight numeric(5,2)
subsample_weight numeric(6,3)
subsample_number smallint
species_mean_length smallint
species_mean_weight integer
maturity_scale varchar(14)
medbs_rdb_schema.medias_pelagic_trawl_bio_individual
survey_name varchar(14)
cd_country varchar(3)
gsa varchar(7)
survey_area varchar(32)
geographical_stratum varchar(32)
cd_centre varchar(14)
cd_inst varchar(14)
cd_vessel varchar(12)
sampling_year smallint
cd_cruise varchar(14)
gear varchar(14)
haul_id varchar(14)
species varchar(7)
individual_id varchar(128)
individual_total_length smallint
individual_total_weight numeric(6,2)
individual_eviscerated_weight numeric(6,2)
sex char(1)
maturity varchar(3)
age smallint
gonad_weight numeric(5,2)
stomach_weight numeric(5,2)
notes varchar(1024)
medbs_rdb_schema.medias_pelagic_trawl_length_classes
survey_name varchar(14)
cd_country varchar(3)
gsa varchar(7)
survey_area varchar(32)
geographical_stratum varchar(32)
cd_centre varchar(14)
cd_inst varchar(14)
cd_vessel varchar(12)
sampling_year smallint
cd_cruise varchar(14)
gear varchar(14)
haul_id varchar(14)
species varchar(7)
size_category char(1)
length_class smallint
n_at_length smallint
weight_at_length integer
n_sampled integer

MEDIASpelagicTrawl

Table medbs_rdb_schema.medias_pelagic_trawl_bio_individual

Idx	Name	Data Type	Description
Biological parameters at individual level Tags:			
* Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS) Tags:
* Pk	cd_country	varchar(3)	Country ISO 3166 international standard Tags:
* Pk	gsa	varchar(7)	GFCM Geographical subarea Tags:
* Pk	survey_area	varchar(32)	Survey area (may extend more than one GSA, e.g. Iberian coast) Tags:
* Pk	geographical_stratum	varchar(32)	Geographical stratum (area inside a GSA and survey area) Tags:
* Pk	cd_centre	varchar(14)	Research center code Tags:
* Pk	cd_inst	varchar(14)	Research institute code Tags:
* Pk	cd_vessel	varchar(12)	Vessel Tags:
* Pk	sampling_year	smallint	Sampling year Tags:
* Pk	cd_cruise	varchar(14)	Cruise code Tags:
* Pk	gear	varchar(14)	Gear Tags:
* Pk	haul_id	varchar(14)	Haul ID Tags:
* Pk	species	varchar(7)	Species code according to ASFIS FAO Tags:
* Pk	individual_id	varchar(128)	Unique ID in database - [Survey name] [Country][GSA] [Survey area] [Geo Stratum] [Centre] [Institute] [Vessel] [Cruise] [Haul][Species][Stage][Sex][Length] [individual number] Tags:
	individual_total_length	smallint	Individual total length Tags:
	individual_total_weight	numeric(6,2)	Individual total weight Tags:
	individual_eviscerated_weight	numeric(6,2)	Individual eviscerated weight Tags:
	sex	char(1)	Sex Tags:
	maturity	varchar(3)	Maturity Tags:
	age	smallint	Age Tags:
	gonad_weight	numeric(5,2)	Gonad weight Tags:
	stomach_weight	numeric(5,2)	Stomach weight Tags:
	notes	varchar(1024)	Notes Tags:

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Type	Name	On	Description
Pk	medias_pelagic_trawl_bio_individual_pkey	survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id, species, individual_id	Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_bio_individual

Foreign Keys

Type	Name	On	Description
	cd_inst_fk$p_fishery_body_departments (cd_inst) ref p_fishery_body_departments (department)		Tags:
	cd_vessel_fk$rv_eurofleets (cd_vessel) ref rv_eurofleets (vessel_code)		Tags:
	fk_pel_trawl_individ$pel_trawl_haul (survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id) ref medias_pelagic_trawl_haul (survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id)		Tags:
	geo_stratum_fk$p_medias_geo_stratum (geographical_stratum) ref p_medias_geo_stratum (geo_stratum_code)		Tags:
	gsa_fk$p_fdi_subregion (gsa) ref p_fdi_subregion (subregion_cd)		Tags:
	pelagic_trawl_individ_country_fk$p_country3166 (cd_country) ref p_countries_iso3166 (country_a3code)		Tags:
	pt_gear_fk$p_medias_trawl (gear) ref p_medias_trawl (gear)		Tags:
	survey_area_fk$p_medias_survey_area (survey_area) ref p_medias_survey_area (survey_area_code)		Tags:
	survey_name_fk$p_surveys (survey_name) ref p_surveys (survey_code)		Tags:
	species_fk$species_list_medias (species) ref species_list_medias (species)		Tags:
	maturity_fk$p_nikolsky (maturity) ref p_nikolksy (maturity)		Tags:
	cd_centre_fk$p_fishery_bodies_acronym (cd_centre) ref p_fishery_bodies (acronym)		Tags:

Constraints

	Name	Definition	Description
	chk_individ_total_length	(individual_total_length)::numeric >= (5)::numeric) AND ((individual_total_length)::numeric <= (1000)::numeric	Tags:
	chk_individ_total_weight	individual_total_weight > (0)::numeric) OR (individual_total_weight = ('-1'::integer)::numeric	Tags:
	chk_individual_eviscerated_weight	(individual_eviscerated_weight > (0)::numeric) AND (individual_eviscerated_weight <= 9999.99)) OR (individual_eviscerated_weight = ('-1'::integer)::numeric	Tags:
	chk_gonad_weight	(gonad_weight > (0)::numeric) AND (gonad_weight <= 999.99)) OR (gonad_weight = ((-1))::numeric	Tags:
	chk_sex	(sex = ANY (ARRAY['M'::bpchar, 'F'::bpchar, 'U'::bpchar])) OR NULL::boolean	Tags:
	chk_stomach_weight	(stomach_weight > (0)::numeric) AND (stomach_weight <= 999.99)) OR (stomach_weight = ((-1))::numeric	Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_bio_individual

	chk_maturity	((maturity)::text = ANY (ARRAY[('I'::character varying)::text, ('II'::character varying)::text, ('III'::character varying)::text, ('IV'::character varying)::text, ('V'::character varying)::text, ('VI'::character varying)::text, ('1'::character varying)::text, ('2'::character varying)::text, ('3'::character varying)::text, ('4'::character varying)::text, ('5'::character varying)::text, ('6'::character varying)::text])) OR NULL::boolean	Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_haul

Idx	Name	Data Type	Description
MEDIAS pelagic trawl: basic information by haul Tags:			
* Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS) Tags:
* Pk	cd_country	varchar(3)	Country ISO 3166 international standard Tags:
* Pk	gsa	varchar(7)	GFCM Geographical subarea Tags:
* Pk	survey_area	varchar(32)	Survey area (may extend more than one GSA, e.g. Iberian coast) Tags:
* Pk	geographical_stratum	varchar(32)	Geographical stratum (area inside a GSA and survey area) Tags:
* Pk	cd_centre	varchar(14)	Research center code Tags:
* Pk	cd_inst	varchar(14)	Research institute code Tags:
* Pk	cd_vessel	varchar(12)	Vessel Tags:
* Pk	sampling_year	smallint	Sampling year Tags:
* Pk	cd_cruise	varchar(14)	Cruise code Tags:
* Pk	gear	varchar(14)	Gear Tags:
* Pk	haul_id	varchar(14)	Haul ID Tags:
*	vhaul_id	varchar(64)	Virtual haul ID Tags:
	latitude	numeric(7,4)	Latitude Tags:
	longitude	numeric(7,4)	Longitude Tags:
	bottom_depth_start	smallint	Bottom depth start Tags:
	bottom_depth_end	smallint	Bottom depth end Tags:
	sampling_date	date	Sampling date Tags:
	time_start	timestamp	Time start (when the net is operational) Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_haul

	time_end	timestamp	Time end (when the net is hauling) Tags:
	duration	smallint	Duration (hauling duration) Tags:
	average_fishing_speed	numeric(5,2)	Average fishing speed Tags:
	net_average_depth	numeric(4,1)	Net average depth Tags:
	net_horizontal_opening	numeric(5,2)	average values of Net horizontal opening (in m) (optional) Tags:
	net_vertical_opening	numeric(5,2)	average values of Net vertical opening (in m) (optional) Tags:
	calibration_id	smallint	The echosounder calibration identification code (e.g. 1, 2). Used to associate acoustic integration data in other tables with the specific instrument calibration applied during data collection & analysis. Tags:

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Type	Name	On	Description
Pk	medias_pelagic_trawl_haul_pkey	survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id	Tags:

Foreign Keys

Type	Name	On	Description
	cd_centre_fk$p_fishery_bodies_acronym (cd_centre) ref p_fishery_bodies (acronym)		Tags:
	cd_inst_fk$p_fishery_body_departments (cd_inst) ref p_fishery_body_departments (department)		Tags:
	cd_vessel_fk$rv_eurofleets (cd_vessel) ref rv_eurofleets (vessel_code)		Tags:
	geo_stratum_fk$p_medias_geo_stratum (geographical_stratum) ref p_medias_geo_stratum (geo_stratum_code)		Tags:
	gsa_fk$p_fdi_subregion (gsa) ref p_fdi_subregion (subregion_cd)		Tags:
	pelagic_trawl_haul_country_fk$p_country3166 (cd_country) ref p_countries_iso3166 (country_a3code)		Tags:
	pt_gear_fk$p_medias_trawl (gear) ref p_medias_trawl (gear)		Tags:
	survey_area_fk$p_medias_survey_area (survey_area) ref p_medias_survey_area (survey_area_code)		Tags:
	survey_name_fk$p_surveys (survey_name) ref p_surveys (survey_code)		Tags:

Constraints

	Name	Definition	Description
	chk_bottom_depth_end	bottom_depth_end >= 10) AND (bottom_depth_end <= 1500	Tags:
	chk_bottom_depth_start	bottom_depth_start >= 10) AND (bottom_depth_start <= 1500	Tags:
	chk_calibration_id	(calibration_id >= 1) AND (calibration_id <= 999)) OR (calibration_id = '-1'::integer	Tags:
	chk_duration	duration >= 10) AND (duration <= 180	Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_haul

	chk_average_fishing_speed	average_fishing_speed >= 1.5) AND (average_fishing_speed <= (7)::numeric	Tags:
	chk_longitude	longitude >= '-5.50'::numeric) AND (longitude <= 35.00	Tags:
	chk_net_average_depth	net_average_depth >= (5)::numeric) AND (net_average_depth <= (800)::numeric	Tags:
	chk_net_horizontal_opening	net_horizontal_opening >= (5)::numeric) AND (net_horizontal_opening <= (30)::numeric	Tags:
	chk_net_vertical_opening	net_vertical_opening >= (1)::numeric) AND (net_vertical_opening <= (25)::numeric	Tags:
	chk_latitude	latitude >= 34.00) AND (latitude <= 45.70	Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_length_classes

Idx	Name	Data Type	Description
MEDIAS pelagic trawl length classes Tags:			
* Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS) Tags:
* Pk	cd_country	varchar(3)	Country ISO 3166 international standard Tags:
* Pk	gsa	varchar(7)	GFCM Geographical subarea Tags:
* Pk	survey_area	varchar(32)	Survey area (may extend more than one GSA, e.g. Iberian coast) Tags:
* Pk	geographical_stratum	varchar(32)	Geographical stratum (area inside a GSA and survey area) Tags:
* Pk	cd_centre	varchar(14)	Research center code Tags:
* Pk	cd_inst	varchar(14)	Research institute code Tags:
* Pk	cd_vessel	varchar(12)	Vessel Tags:
* Pk	sampling_year	smallint	Sampling year Tags:
* Pk	cd_cruise	varchar(14)	Cruise code Tags:
*	gear	varchar(14)	Gear Tags:
* Pk	haul_id	varchar(14)	Haul ID Tags:
* Pk	species	varchar(7)	Species code according to ASFIS FAO Tags:
* Pk	size_category	char(1)	Tags:
* Pk	length_class	smallint	Length class Tags:
	n_at_length	smallint	Number at length (estimated n of individuals at length class) Tags:
	weight_at_length	integer	Weight at length (in g, estimated by haul) Tags:
	n_sampled	integer	Number sampled (N of individuals measured) Tags:

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Type	Name	On	Description

Table medbs_rdb_schema.medias_pelagic_trawl_length_classes

Pk	medias_pelagic_trawl_length_classes_pkey	survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, haul_id, species, size_category, length_class	Tags:

Foreign Keys

Type	Name	On	Description
	species_fk$species_list_medias (species) ref species_list_medias (species)		Tags:
	cd_centre_fk$p_fishery_bodies_acronym (cd_centre) ref p_fishery_bodies (acronym)		Tags:
	cd_inst_fk$p_fishery_body_departments (cd_inst) ref p_fishery_body_departments (department)		Tags:
	cd_vessel_fk$rv_eurofleets (cd_vessel) ref rv_eurofleets (vessel_code)		Tags:
	fk_pel_trawl_length$pel_trawl_species (survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id, species, size_category) ref medias_pelagic_trawl_species (survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id, species, size_category)		Tags:
	geo_stratum_fk$p_medias_geo_stratum (geographical_stratum) ref p_medias_geo_stratum (geo_stratum_code)		Tags:
	gsa_fk$p_fdi_subregion (gsa) ref p_fdi_subregion (subregion_cd)		Tags:
	pelagic_trawl_lc_country_fk$p_country3166 (cd_country) ref p_countries_iso3166 (country_a3code)		Tags:
	pt_gear_fk$p_medias_trawl (gear) ref p_medias_trawl (gear)		Tags:
	survey_area_fk$p_medias_survey_area (survey_area) ref p_medias_survey_area (survey_area_code)		Tags:
	survey_name_fk$p_surveys (survey_name) ref p_surveys (survey_code)		Tags:

Constraints

	Name	Definition	Description
	chk_length_class	(length_class)::numeric >= (10)::numeric) AND ((length_class)::numeric <= (3000)::numeric	Tags:
	chk_n_at_length	n_at_length > 0	Tags:
	chk_n_sampled	n_sampled > 0	Tags:
	chk_size_category	size_category = ANY (ARRAY['S'::bpchar, 'L'::bpchar, 'C'::bpchar])	Tags:
	chk_weight_at_length	(weight_at_length >= 1) AND (weight_at_length <= 200000)) OR (weight_at_length = '-1'::integer	Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_species

Idx	Name	Data Type	Description
MEDIAS pelagic trawl species composition Tags:			
* Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS) Tags:
* Pk	cd_country	varchar(3)	Country ISO 3166 international standard Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_species

* Pk	gsa	varchar(7)	GFCM Geographical subarea Tags:
* Pk	survey_area	varchar(32)	Survey area (may extend more than one GSA, e.g. Iberian coast) Tags:
* Pk	geographical_stratum	varchar(32)	Geographical stratum (area inside a GSA and survey area) Tags:
* Pk	cd_centre	varchar(14)	Research center code Tags:
* Pk	cd_inst	varchar(14)	Research institute code Tags:
* Pk	cd_vessel	varchar(12)	Vessel Tags:
* Pk	sampling_year	smallint	Sampling year Tags:
* Pk	cd_cruise	varchar(14)	Cruise code Tags:
* Pk	gear	varchar(14)	Gear Tags:
* Pk	haul_id	varchar(14)	Haul ID Tags:
* Pk	species	varchar(7)	Species code according to ASFIS FAO Tags:
* Pk	size_category	char(1)	Tags:
	t_catch	numeric(10,4)	Catch (in Kg) Tags:
	percentage_weight	numeric(5,2)	Percentage weight (% w of some species in the haul) Tags:
	subsample_weight	numeric(6,3)	Subsample weight (in Kg) Tags:
	subsample_number	smallint	Subsample number Tags:
	species_mean_length	smallint	Species mean length (mm) Tags:
	species_mean_weight	integer	Species mean weight (g) Tags:
*	maturity_scale	varchar(14)	Maturity scale: ICES WKSPMAT, MEDITS Tags:

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Type	Name	On	Description
Pk	medias_pelagic_trawl_species_pkey	survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id, species, size_category	Tags:

Foreign Keys

Type	Name	On	Description
	species_fk$species_list_medias (species) ref species_list_medias (species)		Tags:
	cd_centre_fk$p_fishery_bodies_acronym (cd_centre) ref p_fishery_bodies (acronym)		Tags:
	cd_inst_fk$p_fishery_body_departments (cd_inst) ref p_fishery_body_departments (department)		Tags:
	cd_vessel_fk$rv_eurofleets (cd_vessel) ref rv_eurofleets (vessel_code)		Tags:

Table medbs_rdb_schema.medias_pelagic_trawl_species

fk_pel_trawl_species$pel_trawl_haul (survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id) ref medias_pelagic_trawl_haul (survey_name, cd_country, gsa, survey_area, geographical_stratum, cd_centre, cd_inst, cd_vessel, sampling_year, cd_cruise, gear, haul_id)	Tags:
geo_stratum_fk$p_medias_geo_stratum (geographical_stratum) ref p_medias_geo_stratum (geo_stratum_code)	Tags:
gsa_fk$p_fdi_subregion (gsa) ref p_fdi_subregion (subregion_cd)	Tags:
pelagic_trawl_species_country_fk$p_country3166 (cd_country) ref p_countries_iso3166 (country_a3code)	Tags:
pt_gear_fk$p_medias_trawl (gear) ref p_medias_trawl (gear)	Tags:
survey_area_fk$p_medias_survey_area (survey_area) ref p_medias_survey_area (survey_area_code)	Tags:
survey_name_fk$p_surveys (survey_name) ref p_surveys (survey_code)	Tags:

Constraints

Name	Definition	Description
chk_percentage_weight	percentage_weight > (0)::numeric) AND (percentage_weight <= (100)::numeric	Tags:
chk_size_category	size_category = ANY (ARRAY['S'::bpchar, 'L'::bpchar, 'C'::bpchar])	Tags:
chk_species_mean_length	(species_mean_length):: numeric > (0)::numeric	Specify max value (in the validation scheme max value per species should be provided by experts) Tags:
chk_maturity_scale	maturity_scale)::text = ANY ((ARRAY['ICES WKSPMAT'::character varying, 'MEDITS'::character varying])::text[]	Tags:
chk_subsample_number	(subsample_number >= 1) AND (subsample_number <= 1000)) OR (subsample_number = '-1'::integer	Tags:
chk_subsample_weight	subsample_weight > (0)::numeric) OR (subsample_weight = ('-1'::integer)::numeric	Tags:
chk_t_catch	t_catch > (0)::numeric	Tags:
chk_species_mean_weight	(species_mean_weight):: numeric > (0)::numeric	Specify max value (in the validation scheme max value per species should be provided by experts) Tags: