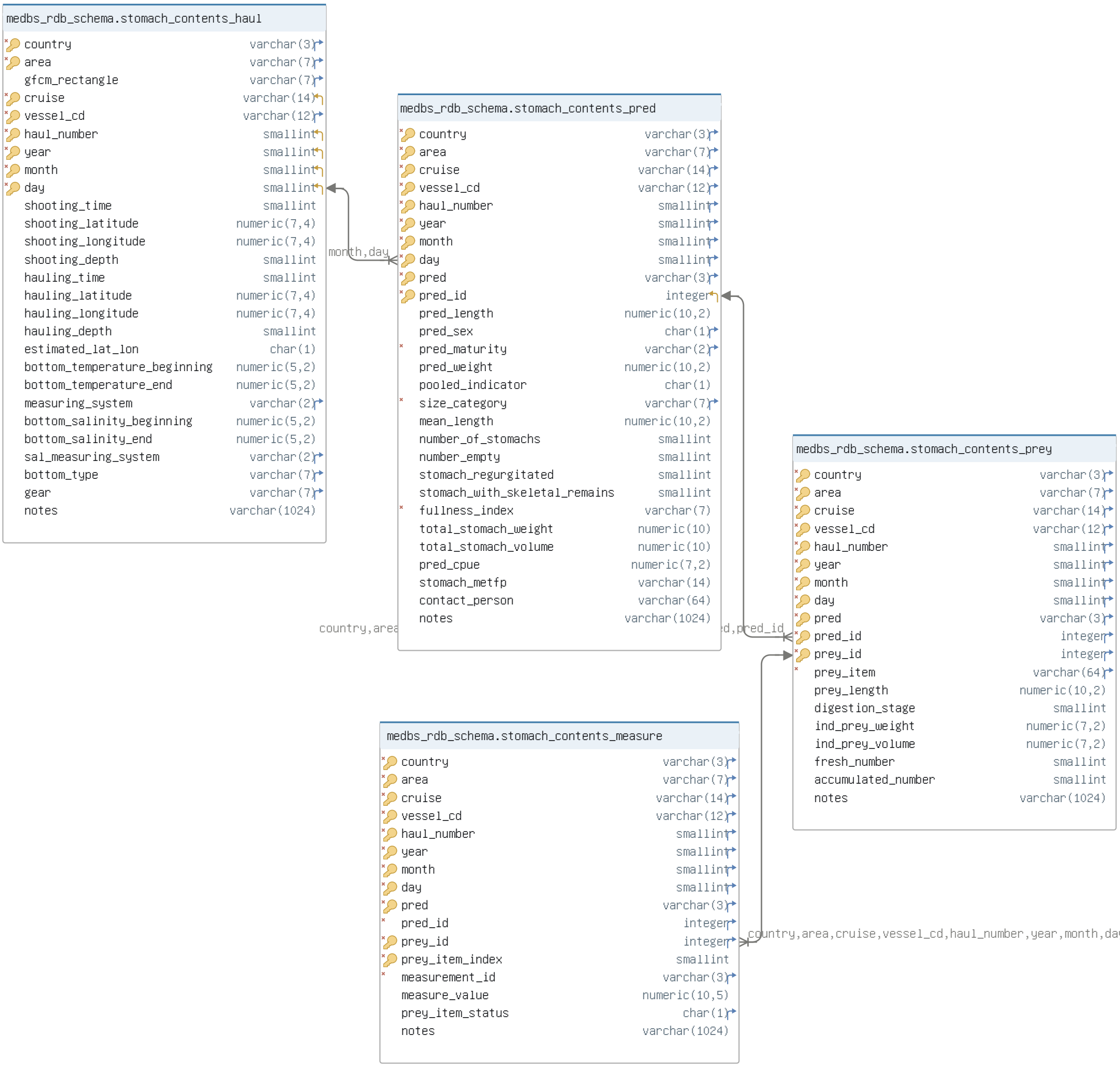
medbs_rdb_schema.stomach_contents_haul
country varchar(3)
area varchar(7)
gfcm_rectangle varchar(7)
cruise varchar(14)
vessel_cd varchar(12)
haul_number smallint
year smallint
month smallint
day smallint
shooting_time smallint
shooting_latitude numeric(7,4)
shooting_longitude numeric(7,4)
shooting_depth smallint
hauling_time smallint
hauling_latitude numeric(7,4)
hauling_longitude numeric(7,4)
hauling_depth smallint
estimated_lat_lon char(1)
bottom_temperature_beginning numeric(5,2)
bottom_temperature_end numeric(5,2)
measuring_system varchar(2)
bottom_salinity_beginning numeric(5,2)
bottom_salinity_end numeric(5,2)
sal_measuring_system varchar(2)
bottom_type varchar(7)
gear varchar(7)
notes varchar(1024)
month,day
medbs_rdb_schema.stomach_contents_pred
country varchar(3)
area varchar(7)
cruise varchar(14)
vessel_cd varchar(12)
haul_number smallint
year smallint
month smallint
day smallint
pred varchar(3)
pred_id integer
pred_length numeric(10,2)
pred_sex char(1)
pred_maturity varchar(2)
pred_weight numeric(10,2)
pooled_indicator char(1)
size_category varchar(7)
mean_length numeric(10,2)
number_of_stomachs smallint
number_empty smallint
stomach_regurgitated smallint
stomach_with_skeletal_remains smallint
fullness_index varchar(7)
total_stomach_weight numeric(10)
total_stomach_volume numeric(10)
pred_cpue numeric(7,2)
stomach_metfp varchar(14)
contact_person varchar(64)
notes varchar(1024)
country,area
,pred_id
medbs_rdb_schema.stomach_contents_prey
country varchar(3)
area varchar(7)
cruise varchar(14)
vessel_cd varchar(12)
haul_number smallint
year smallint
month smallint
day smallint
pred varchar(3)
pred_id integer
prey_id integer
prey_item varchar(64)
prey_length numeric(10,2)
digestion_stage smallint
ind_prey_weight numeric(7,2)
ind_prey_volume numeric(7,2)
fresh_number smallint
accumulated_number smallint
notes varchar(1024)
medbs_rdb_schema.stomach_contents_measure
country varchar(3)
area varchar(7)
cruise varchar(14)
vessel_cd varchar(12)
haul_number smallint
year smallint
month smallint
day smallint
pred varchar(3)
pred_id integer
prey_id integer
prey_item_index smallint
measurement_id varchar(3)
measure_value numeric(10,5)
prey_item_status char(1)
notes varchar(1024)
country,area,cruise,vessel_cd,haul_number,year,month,day,pred,p

StomachContent

Table medbs_rdb_schema.stomach_contents_haul

Idx	Name	Data Type	Description
Stomach Contents: data on the haul			
* Pk	country	varchar(3)	ISO 3166 Alpha-3 country code
* Pk	area	varchar(7)	Geographic subarea: GFCM Code
	gfcm_rectangle	varchar(7)	GFCM rectangle
* Pk	cruise	varchar(14)	Cruise
* Pk	vessel_cd	varchar(12)	Vessel code
* Pk	haul_number	smallint	Haul number
* Pk	year	smallint	Sampling year with the format yyyy
* Pk	month	smallint	Sampling month with the format mm
* Pk	day	smallint	Day
	shooting_time	smallint	0 to 2400 - In UT Ex: 7 h 25 min > 725
	shooting_latitude	numeric(7,4)	Shooting latitude in decimal degress - Ex 38.7234
	shooting_longitude	numeric(7,4)	Shooting longitude in decimal degress - Ex 18.8754
	shooting_depth	smallint	Shooting depth at the vessel position, in meters; unknown: 0
	hauling_time	smallint	0 to 2400 - In UT Ex: 7 h 25 min > 725
	hauling_latitude	numeric(7,4)	hauling latitude in decimal degress - Ex 38.7234
	hauling_longitude	numeric(7,4)	hauling longitude in decimal degress - Ex 18.8754
	hauling_depth	smallint	Hauling depth at the vessel position, in meters; unknown: 0
	estimated_lat_lon	char(1)	Flag whether the sampling position based on the reported area
	bottom_temperature_beginning	numeric(5,2)	0 to 30 - in °C with two decimals; NA if not available
	bottom_temperature_end	numeric(5,2)	0 to 30 - in °C with two decimals; NA if not available
	measuring_system	varchar(2)	Depth & temperature measuring system; NA if not available
	bottom_salinity_beginning	numeric(5,2)	0 to 50 - in ppt with two decimals; NA if not available
	bottom_salinity_end	numeric(5,2)	0 to 50 - in ppt with two decimals; NA if not available
	sal_measuring_system	varchar(2)	Salinity measuring system; NA if not available
	bottom_type	varchar(7)	Bottom type
	gear	varchar(7)	Gear Code - the gear used to catch the fish
	notes	varchar(1024)	Notes

Indexes

Type	Name	On	Description
Pk	stom_cont_pkey	country, area, cruise, vessel_cd, haul_number, year, month, day	

Foreign Keys

Type	Name	On	Description
	fk_area$p_fdi_subregion (area) ref p_fdi_subregion (subregion_cd)		
	fk_bottom_type$p_bottom_types (bottom_type) ref p_bottom_types (cd_bottom)		
	fk_country$country (country) ref p_country (country_cd)		
	fk_gear$p_fdi_gear (gear) ref p_fdi_gear (gear_cd)		
	fk_gfcm_rectangle$p_gfcm_rectangle (gfcm_rectangle) ref p_gfcm_rectangles (cellcode)		
	fk_measuring_system$p_measuring_system (measuring_system) ref p_medits_measuring_system (measuring_system_cd)		
	fk_sal_measuring_system$p_measuring_system (sal_measuring_system) ref p_medits_measuring_system (measuring_system_cd)		
	fk_vessel$p_vessels (vessel_cd) ref p_vessels (vessel_cd)		

Table medbs_rdb_schema.stomach_contents_haul

Constraints

	Name	Definition	Description
	chk_bottom_salinity_end	bottom_salinity_end >= (0)::numeric) AND (bottom_salinity_end <= (50)::numeric	
	chk_bottom_temperature_beginning	bottom_temperature_beginning >= (0)::numeric) AND (bottom_temperature_beginning <= (30)::numeric	
	chk_bottom_temperature_end	bottom_temperature_end >= (0)::numeric) AND (bottom_temperature_end <= (30)::numeric	
	chk_haul_number	(haul_number)::numeric >= (1)::numeric) AND ((haul_number)::numeric <= (9999999)::numeric	
	chk_hauling_depth	((hauling_depth)::numeric >= (1)::numeric) AND ((hauling_depth)::numeric <= (1000)::numeric)) OR ((hauling_depth)::numeric = (0)::numeric	
	chk_hauling_latitude	hauling_latitude >= 34.00) AND (hauling_latitude <= 45.70	latitude_avg: range(34.00,35.00) latitude_avg: range(34.00,45.70)
	chk_bottom_salinity_beginning	bottom_salinity_beginning >= (0)::numeric) AND (bottom_salinity_beginning <= (50)::numeric	
	chk_hauling_time	(hauling_time)::numeric >= (0)::numeric) AND ((hauling_time)::numeric <= (2400)::numeric	
	chk_shooting_depth	((shooting_depth)::numeric >= (1)::numeric) AND ((shooting_depth)::numeric <= (1000)::numeric)) OR ((shooting_depth)::numeric = (0)::numeric	
	chk_shooting_latitude	shooting_latitude >= 34.00) AND (shooting_latitude <= 45.70	latitude_avg: range(34.00,35.00) latitude_avg: range(34.00,45.70)
	chk_shooting_longitude	shooting_longitude >= '-5.50'::numeric) AND (shooting_longitude <= 35.00	longitude_avg: range(-5.50,35.00) latitude_avg: range(34.00,45.70)
	chk_shooting_time	(shooting_time)::numeric >= (0)::numeric) AND ((shooting_time)::numeric <= (2400)::numeric	
	chk_hauling_longitude	hauling_longitude >= '-5.50'::numeric) AND (hauling_longitude <= 35.00	longitude_avg: range(-5.50,35.00) latitude_avg: range(34.00,45.70)

Table medbs_rdb_schema.stomach_contents_measure

Idx	Name	Data Type	Description
Stomach Contents: Measures			
* Pk	country	varchar(3)	ISO 3166 Alpha-3 country code
* Pk	area	varchar(7)	Geographic subarea: GFCM Code
* Pk	cruise	varchar(14)	Cruise
* Pk	vessel_cd	varchar(12)	Vessel code

Table medbs_rdb_schema.stomach_contents_measure

* Pk	haul_number	smallint	Haul number
* Pk	year	smallint	Year
* Pk	month	smallint	Month
* Pk	day	smallint	Day
* Pk	pred	varchar(3)	Predator FAO a3_code
*	pred_id	integer	Predator reference unique code ID
* Pk	prey_id	integer	Prey WoRMS AphiaID or ITIS
* Pk	prey_item_index	smallint	A sequential number within a prey
*	measurement_id	varchar(3)	An alphabetic code for measurement (DML, LRL, etc.) - dorsal mantle length (DML), lower rostral lengths (LRLs)
	measure_value	numeric(10,5)	The measure value (units depend of size type)
	prey_item_status	char(1)	Prey item status: F for a fresh item or A for a accumulated item
	notes	varchar(1024)	Notes

Indexes

Type	Name	On	Description
Pk	stom_cont_measure_pkey	country, area, cruise, vessel_cd, haul_number, year, month, day, pred, prey_id, prey_item_index	

Foreign Keys

Type	Name	On	Description
	fk_area$p_fdi_subregion (area) ref p_fdi_subregion (subregion_cd)		
	fk_country$country (country) ref p_country (country_cd)		
	fk_stom_cont_measure$measurement_id (measurement_id) ref p_stom_cont_measure_measurement_id (measurement_id)		
	fk_stom_cont_measure$p_stom_cont_prey_item_status (prey_item_status) ref p_stom_cont_measure_prey_item_status (prey_item_status)		
	fk_stomach_content_measure$stomach_content_prey (country, area, cruise, vessel_cd, haul_number, year, month, day, pred, pred_id, prey_id) ref stomach_contents_prey (country, area, cruise, vessel_cd, haul_number, year, month, day, pred, pred_id, prey_id)		
	fk_vessel$p_vessels (vessel_cd) ref p_vessels (vessel_cd)		

Table medbs_rdb_schema.stomach_contents_pred

Idx	Name	Data Type	Description
Stomach Contents: data on predators			
* Pk	country	varchar(3)	ISO 3166 Alpha-3 country code
* Pk	area	varchar(7)	Geographic subarea: GFCM Code
* Pk	cruise	varchar(14)	Cruise
* Pk	vessel_cd	varchar(12)	Vessel code
* Pk	haul_number	smallint	Haul number
* Pk	year	smallint	Year
* Pk	month	smallint	Month
* Pk	day	smallint	Day
* Pk	pred	varchar(3)	Predator FAO a3_code
* Pk	pred_id	integer	Predator reference unique code ID
	pred_length	numeric(10,2)	Predator length
	pred_sex	char(1)	Predator sex
*	pred_maturity	varchar(2)	Predator maturity

Table medbs_rdb_schema.stomach_contents_pred

	pred_weight	numeric(10,2)	Predator weight
	pooled_indicator	char(1)	Pooled indicator (Y/N)
*	size_category	varchar(7)	Size category i.e. (LF, LD1, etc.)
	mean_length	numeric(10,2)	Mean length
	number_of_stomachs	smallint	Total number of stomachs in the pool - for single stomachs always 1
	number_empty	smallint	Number of empty stomachs
	stomach_regurgitated	smallint	Number of stomachs regurgitated
	stomach_with_skeletal_remains	smallint	Number of stomachs with skeletal remains
*	fullness_index	varchar(7)	Fullness index
	total_stomach_weight	numeric(10)	Total stomach weight
	total_stomach_volume	numeric(10)	Total stomach volume
	pred_cpue	numeric(7,2)	Predator catch per hour
	stomach_metfp	varchar(14)	Method of stomach preservation
	contact_person	varchar(64)	The chief scientist name
	notes	varchar(1024)	Notes

Indexes

Type	Name	On	Description
Pk	stom_cont_pred_pkey	country, area, cruise, vessel_cd, haul_number, year, month, day, pred, pred_id	

Foreign Keys

Type	Name	On	Description
	fk_stomach_content_pred$stomach_content_haul (country, area, cruise, vessel_cd, haul_number, year, month, day) ref stomach_contents_haul (country, area, cruise, vessel_cd, haul_number, year, month, day)		
	fk_stomach_content_pred_sex$p_rcg_sex (pred_sex) ref p_rcg_sex (cd)		
	fk_stomach_content_pred_species$species_list_asfis (pred) ref species_list_asfis (a3_code)		
	fk_stomach_content_pred_size_cat$p_stom_cont_com_size_cat (size_category) ref p_stom_cont_commercial_size_category (cd)		
	fk_area$p_fdi_subregion (area) ref p_fdi_subregion (subregion_cd)		
	fk_country$country (country) ref p_country (country_cd)		
	fk_vessel$p_vessels (vessel_cd) ref p_vessels (vessel_cd)		
	fk_stomach_content_pred_maturity$p_stom_cont_sexual_maturity (pred_maturity) ref p_stom_cont_sexual_maturity (stage)		

Table medbs_rdb_schema.stomach_contents_prey

Idx	Name	Data Type	Description
Stomach Contents: data on prey			
* Pk	country	varchar(3)	ISO 3166 Alpha-3 country code
* Pk	area	varchar(7)	Geographic subarea: GFCM Code
* Pk	cruise	varchar(14)	Cruise
* Pk	vessel_cd	varchar(12)	Vessel code
* Pk	haul_number	smallint	Haul number
* Pk	year	smallint	Year
* Pk	month	smallint	Month
* Pk	day	smallint	Day
* Pk	pred	varchar(3)	Predator FAO a3_code

Table medbs_rdb_schema.stomach_contents_prey

* Pk	pred_id	integer	Predator reference unique code ID
* Pk	prey_id	integer	Prey WoRMS AphiaID or ITIS
*	prey_item	varchar(64)	Prey item (scientific name)
	prey_length	numeric(10,2)	Prey length
	digestion_stage	smallint	Digestion stage (0= Intact prey (skin, fins, legs and flesh is complete), 1= partially digested prey (prey in more advanced stages of digestion), 2= partially digested prey (prey in more advanced stages of digestion), 3= skeletal material (no flesh, only bones, shells, otoliths)
	ind_prey_weight	numeric(7,2)	Ind prey weight
	ind_prey_volume	numeric(7,2)	Ind prey volume
	fresh_number	smallint	Fresh items number
	accumulated_number	smallint	Accumulated items number
	notes	varchar(1024)	Notes

Indexes

Type	Name	On	Description
Pk	stom_cont_prey_pkey	country, area, cruise, vessel_cd, haul_number, year, month, day, pred, pred_id, prey_id	

Foreign Keys

Type	Name	On	Description
	fk_area$p_fdi_subregion (area) ref p_fdi_subregion (subregion_cd)		
	fk_country$country (country) ref p_country (country_cd)		
	fk_stomach_content_prey$stomach_content_pred (country, area, cruise, vessel_cd, haul_number, year, month, day, pred, pred_id) ref stomach_contents_pred (country, area, cruise, vessel_cd, haul_number, year, month, day, pred, pred_id)		
	fk_stomach_content_prey_id$p_stom_cont_worms_lookup (prey_id) ref p_stom_cont_worms_lookup (aphia_id)		
	fk_stomach_content_prey_item$p_stom_cont_worms_lookup (prey_item) ref p_stom_cont_worms_lookup (scientific_name)		
	fk_vessel$p_vessels (vessel_cd) ref p_vessels (vessel_cd)		