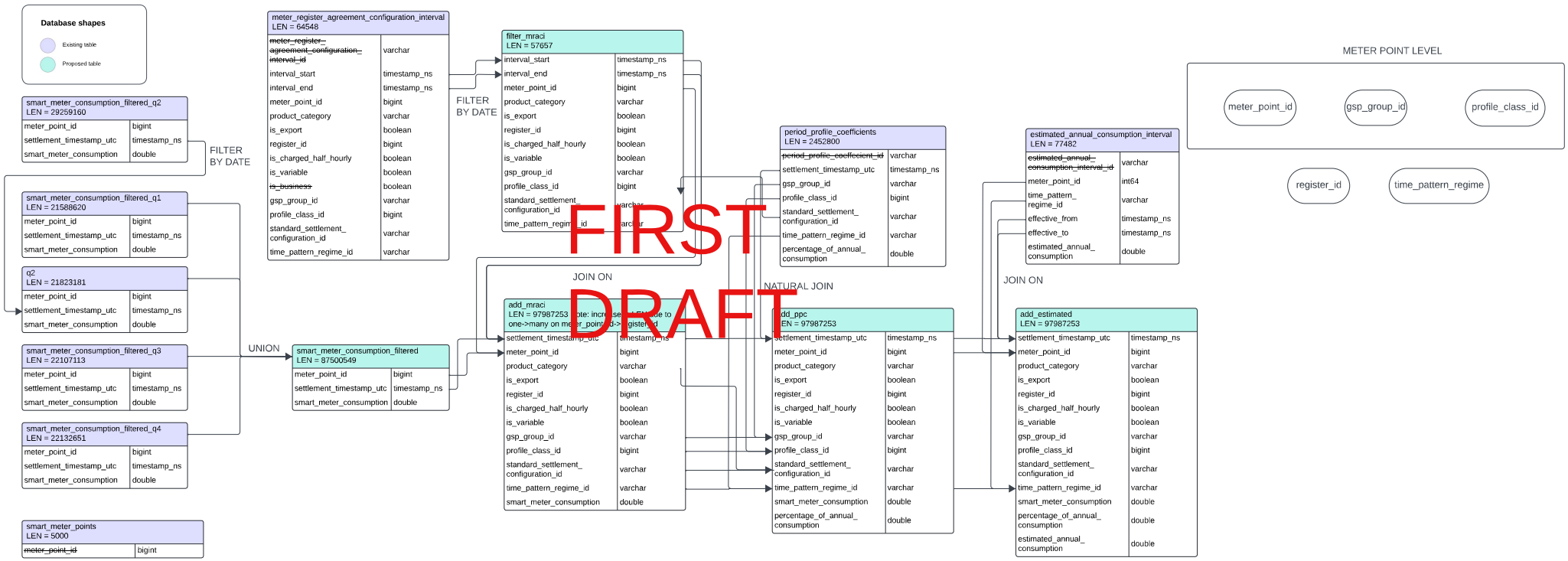
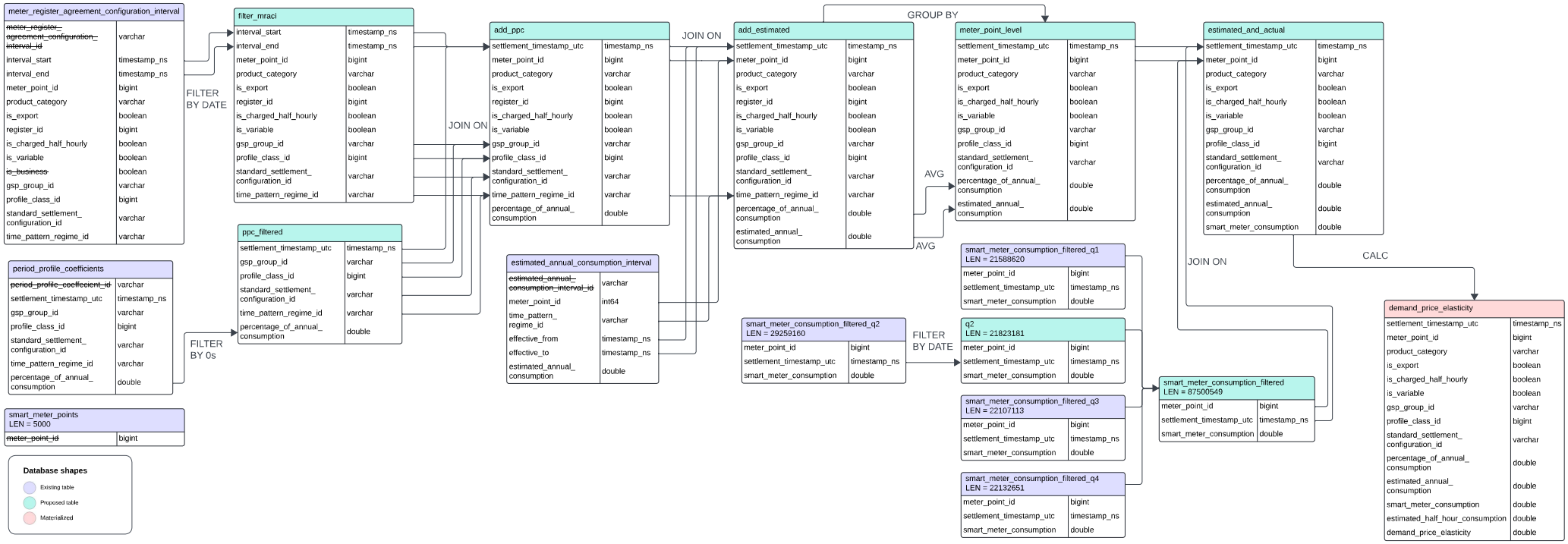

Database shapes
Existing table
Proposed table
smart_meter_consumption_filtered_q2
LEN = 29259160
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
FILTER BY DATE
smart_meter_consumption_filtered_q1
LEN = 21588620
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
q2
LEN = 21823181
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
smart_meter_consumption_filtered_q3
LEN = 22107113
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
smart_meter_consumption_filtered_q4
LEN = 22132651
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
smart_meter_points
LEN = 5000
~~meter_point_id~~ bigint
UNION
smart_meter_consumption_filtered
LEN = 87500549
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
meter_register_agreement_configuration_interval
LEN = 64548
~~meter_register_agreement_configuration_interval_id~~ varchar
interval_start timestamp_ns
interval_end timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
~~is_business~~ boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
FILTER BY DATE
filter_mraci
LEN = 57657
interval_start timestamp_ns
interval_end timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
JOIN ON
add_mraci
LEN = 97987253 Note: increase LEN value to
one->many on meter_point_id->register_id
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
smart_meter_consumption double
period_profile_coefficients
LEN = 2452800
~~period_profile_coeffecient_id~~ varchar
settlement_timestamp_utc timestamp_ns
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
percentage_of_annual_consumption double
NATURAL JOIN
add_ppc
LEN = 97987253
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
smart_meter_consumption double
percentage_of_annual_consumption double
estimated_annual_consumption_interval
LEN = 77482
~~estimated_annual_consumption_interval_id~~ varchar
meter_point_id int64
time_pattern_regime_id varchar
effective_from timestamp_ns
effective_to timestamp_ns
estimated_annual_consumption double
JOIN ON
add_estimated
LEN = 97987253
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
smart_meter_consumption double
percentage_of_annual_consumption double
estimated_annual_consumption double
METER POINT LEVEL
meter_point_id
gsp_group_id
profile_class_id
register_id
time_pattern_regime
FIRST DRAFT


meter_register_agreement_configuration_interval
~~meter_register_agreement_configuration_interval_id~~ varchar
interval_start timestamp_ns
interval_end timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
~~is_business~~ boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
FILTER BY DATE
filter_mraci
interval_start timestamp_ns
interval_end timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
JOIN ON
add_ppc
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
percentage_of_annual_consumption double
JOIN ON
add_estimated
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
register_id bigint
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
percentage_of_annual_consumption double
estimated_annual_consumption double
GROUP BY
AVG
AVG
meter_point_level
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
percentage_of_annual_consumption double
estimated_annual_consumption double
estimated_and_actual
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
percentage_of_annual_consumption double
estimated_annual_consumption double
smart_meter_consumption double
JOIN ON
CALC
period_profile_coefficients
~~period_profile_coeffecient_id~~ varchar
settlement_timestamp_utc timestamp_ns
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
percentage_of_annual_consumption double
FILTER BY 0s
ppc_filtered
settlement_timestamp_utc timestamp_ns
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
time_pattern_regime_id varchar
percentage_of_annual_consumption double
estimated_annual_consumption_interval
~~estimated_annual_consumption_interval_id~~ varchar
meter_point_id int64
time_pattern_regime_id varchar
effective_from timestamp_ns
effective_to timestamp_ns
estimated_annual_consumption double
smart_meter_consumption_filtered_q2
LEN = 29259160
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
FILTER BY DATE
smart_meter_consumption_filtered_q1
LEN = 21588620
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
q2
LEN = 21823181
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
smart_meter_consumption_filtered_q3
LEN = 22107113
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
smart_meter_consumption_filtered_q4
LEN = 22132651
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
smart_meter_consumption_filtered
LEN = 87500549
meter_point_id bigint
settlement_timestamp_utc timestamp_ns
smart_meter_consumption double
demand_price_elasticity
settlement_timestamp_utc timestamp_ns
meter_point_id bigint
product_category varchar
is_export boolean
is_charged_half_hourly boolean
is_variable boolean
gsp_group_id varchar
profile_class_id bigint
standard_settlement_configuration_id varchar
percentage_of_annual_consumption double
estimated_annual_consumption double
smart_meter_consumption double
estimated_half_hour_consumption double
demand_price_elasticity double
smart_meter_points
LEN = 5000
~~meter_point_id~~ bigint
Database shapes
Existing table
Proposed table
Materialized