

Changes done to Tables in DB for One to One mapping Between node and zones:

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Create the following tables if for any new city other than Virtual city or Singapore:

`demand.node_taz_map_onetoone`: One-to-one mapping between the Node and TAZ.

For `node_taz_map_onetoone` table, this was created for Singapore/VirtualCity using qgis by Chuyaw(chuyaw@smart.mit.edu) using the existing `demand.node_taz_map` table to draw a one-to-one mapping for the node and zone.

`demand.taz_without_node`: .

The store procedure `synpop12.getaddresses()` should be replaced with `synpop12.getaddresses_aditi()` new stored procedure which reflects the node's zone instead of the postcode's zone.

Refer to the queries below:

1) For the `demand.taz_without_node_aditi` table, it is created using the following query:

```
SELECT zone_code FROM demand.taz_2012
WHERE zone_code NOT IN (SELECT taz FROM demand.node_taz_map)
```

2) For `synpop12.getaddresses_aditi()` stored procedure, it is as shown below:

```
CREATE OR REPLACE FUNCTION synpop12.getaddresses_aditi()
  RETURNS TABLE(address_id bigint, postcode integer, taz_code integer,
    distance_mrt double precision, distance_bus double precision) AS
$BODY$
BEGIN
  RETURN QUERY
  (
    SELECT synpop12.sla_addresses.address_id,
    cast(synpop12.sla_addresses.sla_postcode as integer),
    demand.postcode_node_map.node_zone,
    synpop12.postcode_amenities.distance_mrt,
    synpop12.postcode_amenities.distance_bus
    FROM synpop12.sla_addresses, demand.postcode_node_map,
    synpop12.postcode_amenities
    WHERE synpop12.sla_addresses.address_id =
    synpop12.postcode_amenities.address_id
    AND synpop12.sla_addresses.sla_postcode not in ('000000','999999','881091')
    AND synpop12.sla_addresses.sla_postcode::bigint =
    demand.postcode_node_map.postcode
  );
END;$BODY$
LANGUAGE plpgsql VOLATILE
COST 100
ROWS 1000;
```

Important consideration:

The name of the new `getaddresses()` function should be consistent with the name hardcoded in the `dev/Basic/shared/database/predaydao/DatabaseHelper.hpp`

For the Singapore network we have kept it as `get_addresses_aditi()` in both the places.