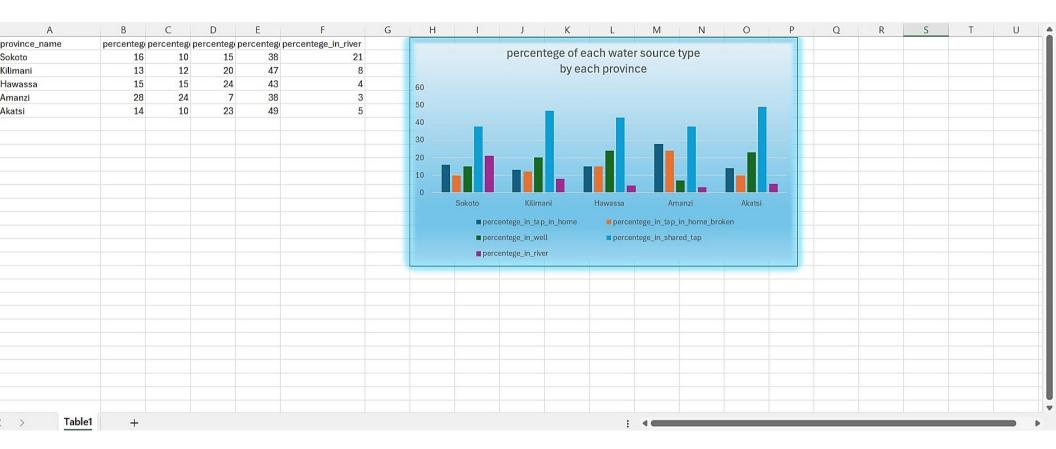
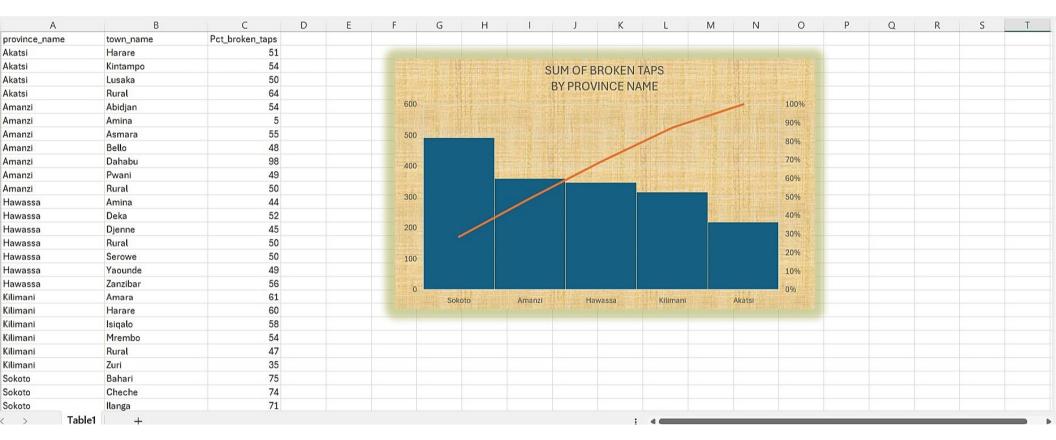
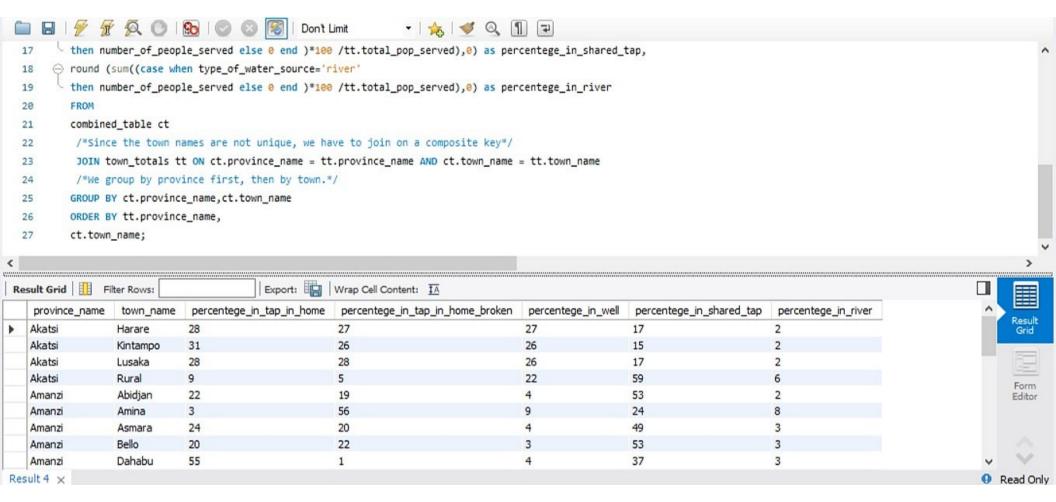


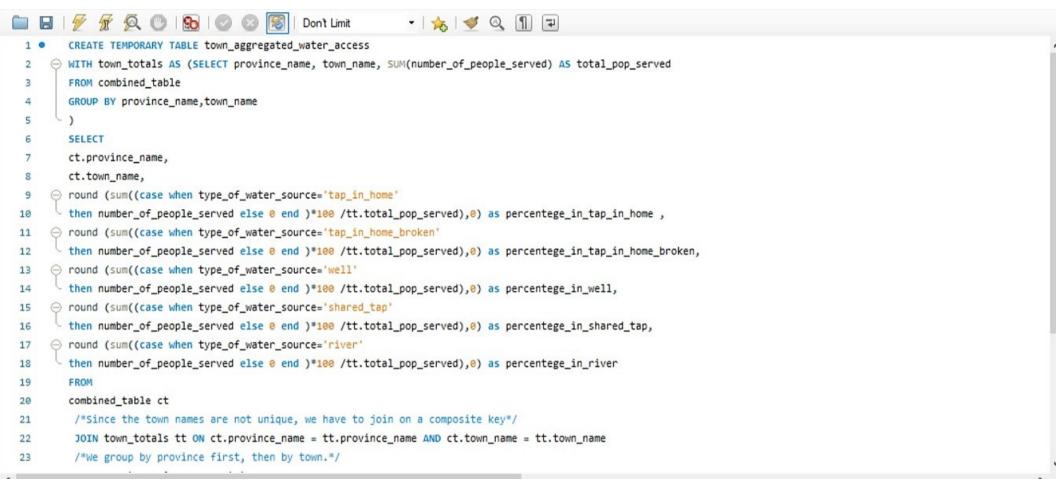
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    We can either create a CTE, and then query it, or in my case, I'll make it a VIEW so it is easier to share with you.
         I'll call it the combined table.*/
 3
         create view combined_table as
 4 0
 5
         SELECT ws.type_of_water_source,ws.number_of_people_served,
              1.province_name,1.town_name,1.location_type,v.time_in_queue,wp.results
       FROM visits v
       left join well pollution wp
       on wp.source_id =v.source_id
 9
10
       inner join location 1
       on 1.location_id=v.location_id
11
       inner join water_source ws
12
       on ws.source_id=v.source_id
13
       -- this condition to ignore multiple locations that were visited
14
15
        where v.visit_count =1;
16
SELECT province_name, SUM(number_of_people_served) AS total_pop_served
18
19
           FROM combined_table group by province_name)
       SELECT * FROM province_totals;
 20
 21
 22
23
```

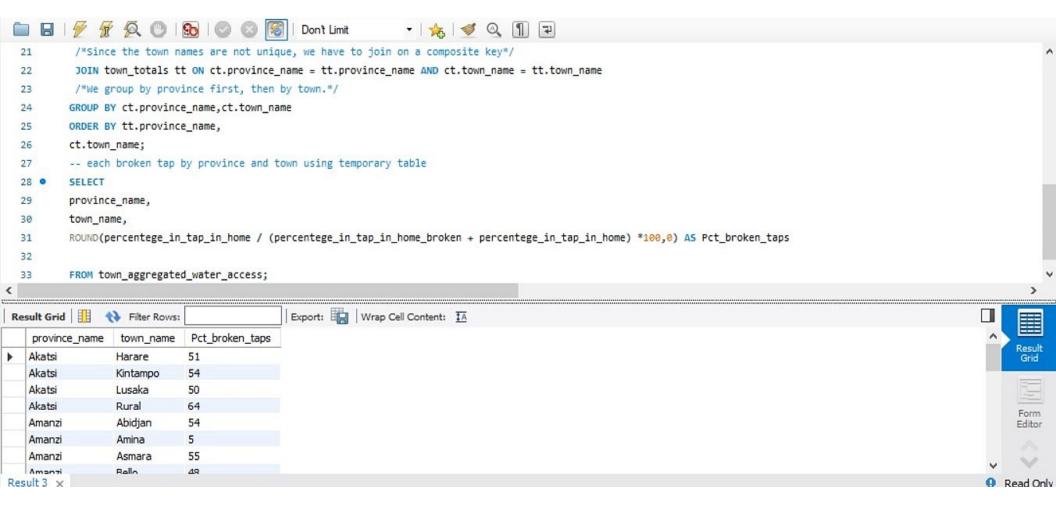




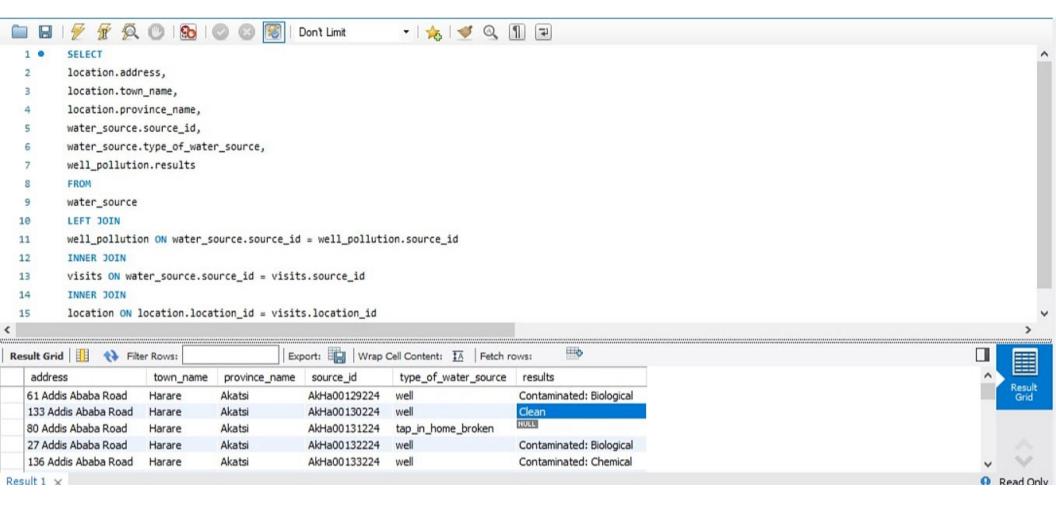
```
/*this CTE calculates the population of each town
        Since there are two Harare towns, we have to group by province_name and town_name*/
 3 • O WITH town_totals AS (SELECT province_name, town_name, SUM(number_of_people_served) AS total_pop_served
        FROM combined_table
        GROUP BY province_name, town_name
        SELECT
        ct.province_name,
 9
        ct.town_name,
     round (sum((case when type_of_water_source='tap_in_home'
10
        then number_of_people_served else 0 end )*100 /tt.total_pop_served),0) as percentege_in_tap_in_home ,
11
     round (sum((case when type_of_water_source='tap_in_home_broken'
12
        then number_of_people_served else 0 end )*100 /tt.total_pop_served),0) as percentege_in_tap_in_home_broken,
13
14
     round (sum((case when type_of_water_source='well'
        then number_of_people_served else 0 end )*100 /tt.total_pop_served),0) as percentege_in_well,
15
     round (sum((case when type_of_water_source='shared_tap'
16
        then number_of_people_served else 0 end )*100 /tt.total_pop_served),0) as percentege_in_shared_tap,
17
18
     round (sum((case when type_of_water_source='river'
        then number_of_people_served else 0 end )*100 /tt.total_pop_served),0) as percentege_in_river
19
20
        FROM
21
        combined_table ct
         /*Since the town names are not unique, we have to join on a composite key*/
22
         JOIN town_totals tt ON ct.province_name = tt.province_name AND ct.town_name = tt.town_name
23
```



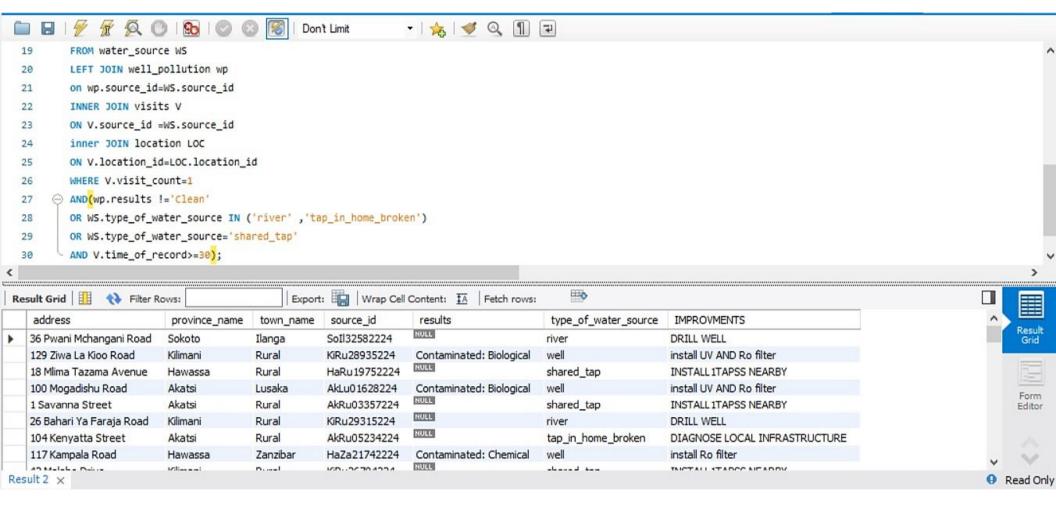


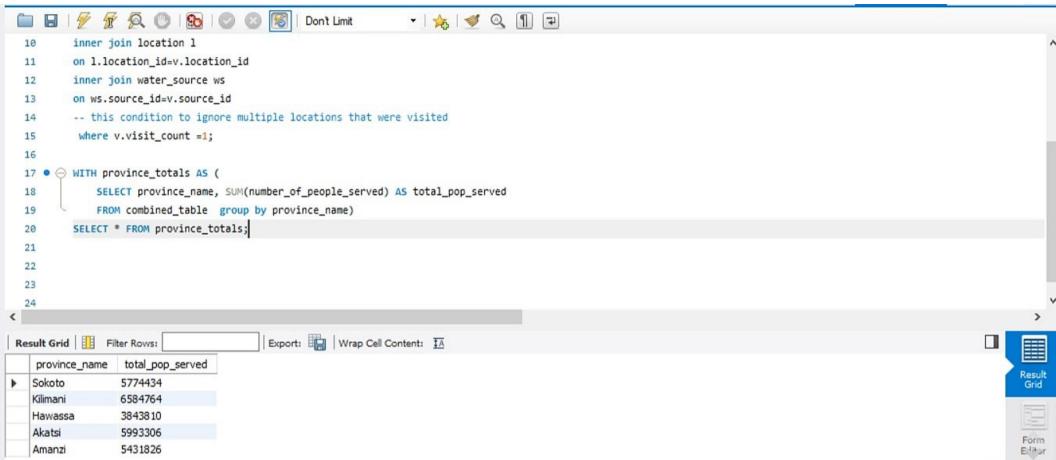


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    completed, and give them space to upgrade the sources.*/
 3 • ⊖ CREATE TABLE Project_progress (
      Project_id SERIAL PRIMARY KEY,
 5
      source_id VARCHAR(20) NOT NULL REFERENCES water_source(source_id) ON DELETE CASCADE ON UPDATE CASCADE,
      Address VARCHAR(50),
      Town VARCHAR(30),
 7
      Province VARCHAR(30),
      Source_type VARCHAR(50),
 9
10
      Improvement VARCHAR(50),
      Source_status VARCHAR(50) DEFAULT 'Backlog' CHECK (Source_status IN ('Backlog', 'In progress', 'Complete')),
11
12
      Date_of_completion DATE,
      Comments TEXT
13
      );
14
```









Result 3 ×

Read Only