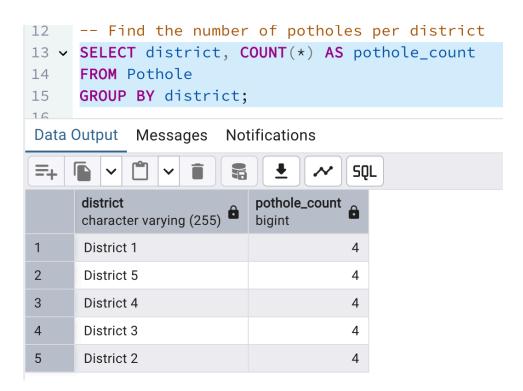
Project 3 - Results

Tiana Thomas and John R. Smith

Users



Pothole Reports



Work Orders

```
1 ➤ SELECT * FROM WorkOrder AS wo WHERE wo.pothole_id
2
          IN (SELECT p.pothole_id FROM Pothole AS p
3
                    WHERE wo.cost > 300);
Data Output Messages Notifications
=+
                                          SQL
      workorder_id pothole_id integer
                                crew_id integer
                                          pothole_status
                                                           cost
                                          epotstat
                                                           double precision
1
                                          IN_PROGRESS
                                                                       500
                2
                             2
                                           REPAIRED
                                                                      1200
3
                4
                             4
                                          IN_PROGRESS
                                                                       700
                                                                      1100
4
                5
                             5
                                          REPAIRED
                                       5
                7
                                          IN_PROGRESS
5
                             7
                                       7
                                                                       650
                                           REPAIRED
                                                                      1400
6
                8
                             8
7
               10
                            10
                                      10
                                          IN_PROGRESS
                                                                       800
8
                                           REPAIRED
                                                                       900
               11
                            11
                                      11
9
                            12
                                                                       450
               12
                                           NOT_REPAIRED
                            13
                                           IN_PROGRESS
                                                                       750
10
               13
11
               14
                            14
                                      14
                                           REPAIRED
                                                                      1300
12
               15
                            15
                                      15
                                           NOT_REPAIRED
                                                                       350
13
                            16
                                           IN_PROGRESS
                                                                       950
               16
                                      16
                                           REPAIRED
14
               17
                            17
                                      17
                                                                      1250
15
               18
                            18
                                           NOT_REPAIRED
                                                                       400
                                      18
                                           IN_PROGRESS
16
               19
                            19
                                      19
                                                                      1050
17
               20
                            20
                                      20
                                           REPAIRED
                                                                      1150
```

```
17 -- -- Find total cost of work orders by district
18 ∨ SELECT p.district, SUM(w.cost) AS total_cost
      FROM WorkOrder w
19
      JOIN Pothole p ON w.pothole_id = p.pothole_id
20
     GROUP BY p.district;
21
Data Output Messages
                        Notifications
                                        SQL
=+
      district
                            total_cost
      character varying (255)
                            double precision
1
      District 1
                                       2600
2
      District 5
                                       3400
3
      District 4
                                       3250
4
      District 3
                                       2850
5
      District 2
                                       3550
```

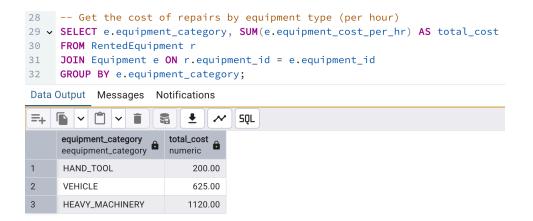
Property Damage

```
23 -- -- Identify the most common damage type caused by potholes
24 SELECT damage_type, COUNT(*) AS damage_count
     FROM PropertyDamageReport
26
     GROUP BY damage_type;
27
Data Output Messages Notifications
                                   SQL
=+
                  damage_count
     damage_type
     edamage
                  bigint
     PERSONAL
      VEHICLE
      PROPERTY
                             3
```

Work Crews

```
1 -- Find crews whose pothole status is not 'REPAIRED'
2 	✓ SELECT c.crew_name, wo.pothole_status FROM Crew AS c
3
          JOIN WorkOrder AS wo ON c.crew_id = wo.crew_id
4
     WHERE wo.pothole_status != 'REPAIRED';
Data Output
             Messages Notifications
                                         SQL
=+
                            pothole_status
      crew_name
      character varying (255)
                             epotstat
      Alpha Team
                             IN_PROGRESS
2
      Gamma Crew
                             NOT_REPAIRED
3
      Delta Force
                             IN_PROGRESS
      Zeta Taskforce
4
                             NOT_REPAIRED
5
      Eta Group
                             IN_PROGRESS
6
      Rapid Repair
                             NOT_REPAIRED
7
      Pothole Pros
                             IN_PROGRESS
      Road Rescuers
                             NOT_REPAIRED
8
      Urban Menders
                             IN_PROGRESS
      City Fixers
10
                             NOT_REPAIRED
11
      Metro Patching
                             IN_PROGRESS
12
      Express Repair
                             NOT_REPAIRED
13
      Bridge Builders
                             IN_PROGRESS
```

Work Equipment



6 -- Find the average rental cost per equipment type 7 ➤ SELECT equipment_category, AVG(equipment_cost_per_hr) AS avg_rental_cost FROM Equipment GROUP BY equipment_category; Data Output Messages Notifications SQL =+ equipment_category avg_rental_cost eequipment_category numeric HAND_TOOL 1 33.333333333333333 2 VEHICLE 104.166666666666667 3 HEAVY_MACHINERY 140.00000000000000000