```
C:\Users\HP\AppData\Local\Temp\xzwiikyi..sql
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```
1
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```
1 CREATE DATABASE food_waste_management;
3 USE food_waste_management;
4
5
6
7 -- For the tables, I imported the required CSV files through the Import
    Flat File option
8 -- with the table names as:
9 -- dbo.claims_data, dbo.listing_data, dbo.providers_data,
    dbo.receivers data
10
11
12
13
15 -- Query 1: Provider count per city
17 SELECT
18
     UPPER(LTRIM(RTRIM(City))) AS City,
     COUNT(DISTINCT Provider_ID) AS Provider_Count
19
20 FROM dbo.providers_data
21 GROUP BY UPPER(LTRIM(RTRIM(City)))
22 ORDER BY City;
23 GO
24
26 -- Query 2: Receiver count per city
28 SELECT
29
     UPPER(LTRIM(RTRIM(City))) AS City,
30
     COUNT(DISTINCT Receiver_ID) AS Receiver_Count
31 FROM dbo.receivers_data
32 GROUP BY UPPER(LTRIM(RTRIM(City)))
33 ORDER BY City;
34 GO
35
37 -- Query 3: Total quantity per provider type
39 SELECT
40
     Provider_Type,
41
     SUM(Quantity) AS Total_Quantity
42 FROM dbo.listing_data
43 GROUP BY Provider_Type
44 ORDER BY Total_Quantity DESC;
45 GO
46
```

```
48 -- Query 4: Total claims per receiver
50 SELECT
51
    Receiver_ID,
52
    COUNT(Claim_ID) AS Total_Claims
53 FROM dbo.claims_data
54 GROUP BY Receiver_ID
55 ORDER BY Total_Claims DESC;
56 GO
57
59 -- Query 5: Total food quantity listed
61 SELECT
    SUM(Quantity) AS Total_Food_Quantity
63 FROM dbo.listing_data;
64 GO
65
67 -- Query 6: Total food quantity available per provider
69 SELECT
70
     Provider_ID,
71
    SUM(Quantity) AS Total_Food_Quantity_Available
72 FROM dbo.listing_data
73 GROUP BY Provider_ID
74 ORDER BY SUM(Quantity) DESC;
75 GO
76
78 -- Query 7: Top 5 cities by total listings
80 SELECT TOP 5
81
    Location AS City,
82
    COUNT(Food_ID) AS Total_Listings
83 FROM dbo.listing_data
84 GROUP BY Location
85 ORDER BY Total_Listings
86
87
88
90 -- Query 8: Top 5 Cities with the highest number of food listings
92 SELECT TOP 5
93
    Location,
    COUNT(*) AS Listing_Count
94
95 FROM
96
    dbo.listing_data
```

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97 GROUP BY
98
     Location
99 ORDER BY
100
     Listing_Count DESC;
101
102
104 -- Query 9: Most commonly available food types
106 SELECT
      Food_Type,
107
108
      COUNT(*) AS Listing_Count
109 FROM
110
      dbo.listing_data
111 GROUP BY
112
     Food_Type
113 ORDER BY
114
     Listing_Count DESC;
115
116
117
118
120 -- Query 10: Number of food claims made for each food item
122 SELECT
123
      Food_ID,
124
      COUNT(*) AS Claim_Count
125 FROM
126
      dbo.claims_data
127 GROUP BY
128
      Food_ID
129 ORDER BY
      Claim_Count DESC;
131
132
133
135 -- Query 11: Percentage of food claims by status
137 SELECT
138
      Status,
139
      COUNT(*) AS Claim_Count,
140
      CAST(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM dbo.claims_data) AS
       DECIMAL(5,2)) AS Percentage
141 FROM
142
      dbo.claims_data
143 GROUP BY
144
     Status
```

```
145 ORDER BY
146
      Percentage DESC;
147
148
150 -- Query 12: Average quantity of food claimed per receiver
152 SELECT
153
      r.Receiver_ID,
154
      AVG(l.Quantity) AS Avg_Quantity_Claimed
155 FROM
      dbo.claims_data AS c
156
157 JOIN
158
      dbo.listing_data AS l ON c.Food_ID = l.Food_ID
159 JOIN
160
      dbo.receivers_data AS r ON c.Receiver_ID = r.Receiver_ID
161 GROUP BY
162
      r.Receiver_ID
163 ORDER BY
164
      Avg_Quantity_Claimed DESC;
165
166
168 -- Query 13: Most claimed meal type
170 SELECT
171
      l.Meal_Type,
172
      COUNT(*) AS Claim_Count
173 FROM
      dbo.claims_data AS c
174
175 JOIN
176
      dbo.listing_data AS l ON c.Food_ID = l.Food_ID
177 GROUP BY
178
      l.Meal_Type
179 ORDER BY
180
      Claim_Count DESC;
181
182
183
      -- ------
184
185 -- Query 14: Total quantity of food donated by each provider
187 SELECT
188
      p.Provider_ID,
      p.Name AS Provider_Name,
189
190
      SUM(l.Quantity) AS Total_Quantity_Donated
191 FROM
192
      dbo.listing_data AS l
193 JOIN
```

```
dbo.providers_data AS p ON l.Provider_ID = p.Provider_ID
195 GROUP BY
196
      p.Provider_ID,
197
      p.Name
198 ORDER BY
199
      Total_Quantity_Donated DESC;
200
201
203 -- Query 15: receivers by total quantity of food claimed
205 SELECT
206
      r.Receiver_ID,
207
      r.Name AS Receiver_Name,
      SUM(l.Quantity) AS Total_Quantity_Claimed
208
209 FROM
      dbo.claims_data AS c
210
211 JOIN
212
      dbo.listing_data AS l ON c.Food_ID = l.Food_ID
213 JOIN
      dbo.receivers_data AS r ON c.Receiver_ID = r.Receiver_ID
214
215 GROUP BY
216
      r.Receiver_ID, r.Name
217 ORDER BY
218
      Total_Quantity_Claimed DESC
219
221 -- Query 18: Monthly total claims
223 SELECT
224
      YEAR(Timestamp) AS Claim_Year,
225
      MONTH(Timestamp) AS Claim_Month,
226
      COUNT(*) AS Total_Claims
227 FROM
      dbo.claims_data
228
229 GROUP BY
230
      YEAR(Timestamp), MONTH(Timestamp)
231 ORDER BY
      Claim_Year, Claim_Month;
232
233
234
235
```