```
1 create database SocialBuzz;
3 use SocialBuzz;
 5 select * from Reactions;
 6 select * from Content;
7 select * from ReactionTypes;
9 drop table Reactions
10
11 /*Data Cleaning*/
12 select * from Reactions;
14 /*removing unnecessary columns from Reactions*/
15 alter table Reactions
16 drop column column1, User_ID;
17
18 /*checking null values in columns*/
19 select * FROM Reactions
20 where Content_ID IS NULL OR Type IS NULL OR Datetime IS NULL;
21
22 /*delete the rows having null values*/
23 delete from Reactions
24 where Content_ID IS NULL OR Type IS NULL OR Datetime IS NULL;
26 -----
27
28 /*removing unnecessary columns from Content*/
29 alter table Content
30 drop column column1, User_ID, URL;
31
32 /*checking null values in columns*/
33 select * FROM Content
34 where Content_ID IS NULL OR Type IS NULL OR Datetime IS NULL;
36 /*Updating Category column with lowercase values*/
37 update Content
38 set Category=LOWER(Category);
40 /*Checking Category column*/
41 select * from Content where Category LIKE '%"%';
42
43 /*Updating Category column with correct values*/
44 update Content
45 set Category=REPLACE(Category, '"', '')
46 where Category LIKE '%"%';
47
48 /*checking null values in columns*/
49 select * FROM Content
```

```
50 where Content ID IS NULL OR Type IS NULL OR Category IS NULL;
51
52 -----
53
54 /*removing unnecessary columns from ReactionType*/
55 alter table ReactionTypes
56 drop column column1;
57
58 /*checking null values in columns*/
59  select * FROM ReactionTypes
60 where Type IS NULL OR Sentiment IS NULL OR Score IS NULL;
61
62 -----
63
64 /*Creating View*/
65 create VIEW Dataset AS
66 select r.Content_ID, r.Type AS Reaction_Type, c.Type AS Content_Type,
67 c.Category, t.Sentiment, t.Score, CAST(r.Datetime AS DATE) AS Date,
68
      CONVERT(TIME(0), r.Datetime) AS Time from Reactions r
69 LEFT JOIN Content c
70 ON c.Content ID=r.Content ID
71 LEFT JOIN ReactionTypes t
72 ON t.Type=r.Type;
73
74 /*Selecting data from View*/
75 select * from Dataset;
76
77 ------
78 /*SQL Queries for Report*/
79 /*KPI's*/
80 -- Unique Categories
81 select COUNT(DISTINCT Category) AS [Unique Categories] from Dataset;
82
83 -- Total Reactions
84 select SUM(Score) AS [Total Score] from Dataset;
86 -- Total Reactions
87  select COUNT(Reaction_Type) AS [Total Reactions] from Dataset;
88
89 /*Visuals*/
90 /*Total Posts by Month and Year*/
91 select COUNT(Content_ID) AS [Total Posts], DATENAME(MONTH,Date) AS Month,
92 DATEPART(YEAR, Date) AS Year from Dataset
93 group by DATENAME(MONTH, Date), DATEPART(YEAR, Date), MONTH(Date)
94 order by MONTH(Date); /*ordering by Month number*/
96 /*Pivoting the Total Posts by Month and Year*/
97 select Year,
  COALESCE(January, '') AS January,
98
```

```
...and Visualization Internship\SQL Queries - SocialBuzz.sql
                                                                                      3
        COALESCE(February, '') AS February,
 99
        COALESCE(March, '') AS March,
100
        COALESCE(April, '') AS April,
101
        COALESCE(May, '') AS May,
102
        COALESCE(June, '') AS June,
103
        COALESCE(July, '') AS July,
104
        COALESCE(August, '') AS August,
105
106
        COALESCE(September, '') AS September,
        COALESCE(October, '') AS October,
107
        COALESCE(November, '') AS November,
108
        COALESCE(December, '') AS December
109
110
        from
        (
111
112
             select COUNT(Content_ID) AS Total_Posts, DATENAME(MONTH,Date) AS Month,
113
             DATEPART(YEAR, Date) AS Year from Dataset
             group by DATENAME(MONTH,Date), DATEPART(YEAR, Date)
114
         ) AS PostsDataset
115
116 PIVOT
117 (
118
        SUM(Total_Posts) FOR Month IN ([January], [February], [March],
119
         [April], [May], [June], [July], [August], [September], [October],
           [November], [December])
120 ) AS PivotDataset
121 order by Year;
122
123 /*Top 5 Categories by Reaction Type*/
124 select TOP 5 WITH TIES
125
        Category,
126
        Reaction_Type_Count,
127
        CONCAT(ROUND(CAST(Reaction Type Count AS FLOAT) / SUM(Reaction Type Count) →
          OVER() * 100, 2), '%') AS [Percentage of Reaction_Type_Count]
128 from
129 (
        select
130
131
             Category,
132
             COUNT(Reaction Type) AS Reaction Type Count,
             DENSE_RANK() OVER (ORDER BY COUNT(Reaction_Type) DESC) AS Rank
133
134
        from Dataset
        group by Category
135
136 ) AS RankedCategories
137 where RankedCategories.Rank <= 5 --filters the top 5 categories from
      RankedCategories.
138 order by Reaction_Type_Count DESC;
139
140 /*Top 5 Categories by Total Score*/
141 select TOP 5 WITH TIES Category, SUM(Score) AS Total_Score from Dataset
```

142 group by Category

144

143 order by Total_Score DESC;

```
\underline{\dots} \texttt{and Visualization Internship} \\ \texttt{SQL Queries - SocialBuzz.sql}
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/*Total Score by Sentiment*/
select Sentiment, SUM(Score) AS Total_Score from Dataset
group by Sentiment
order by Total_Score DESC;

// 149
// 150
// 151
// 152
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// 156
// 157
```

158