Shark Tank India

Data Cleaning Project in MySQL Workbench

```
1
 2 .
         CREATE DATABASE SharkTankIndia;
 3
 4 .
         Use SharkTankIndia;
 5
         -- Tables 'deals' and 'presenters' imported with [Table Data Import Wizard]
 6
 7
         -- view 'deals' table
 8
 9
         SELECT *
10 .
         FROM deals;
11
   episode pitch_no company
                                                              ashneer namita anupam vineeta aman peyush ghazal
                 BluePine Industries 75 lakhs for 18% equity
                Booz scooters 40 lakhs for 50% equity
  1
                                                                     N
                                                                                         N
                                                                                               N/A
                                                                                                      N/A
                 Heart up my Sleeves 25 lakhs for 30% equity
                                                                                               N/A
                                                                                                      N/A
  1
                                                                                         Ν
  2
         4
                Tagz Foods
                               No Deal
                                                             Υ
                                                                     Ν
                                                                           N
                                                                                  N
                                                                                         N
                                                                                               N/A
                                                                                                      N/A
                 Head and Heart
                                                                                               N/A
                                                                                                      N/A
  2
                                No Deal
                                                             N
                                                                     N
                                                                           N
                                                                                  N
                                                                                         N
  2
         6
              Agro tourism No Deal
                                                                                         N N/A
                                                                                                      N/A
  3
                 Qzense Labs
                                No Deal
                                                                                         N
                                                                                               N/A
                                                                                                      N/A
  3
        8 Peeschute
                               75 lakhs for 6% equity
                                                                                         Y N/A
                                                                                                     N/A
12
13
        -- view 'presenters' table
14
        SELECT *
15 •
        FROM presenters;
17
   episode
           pitch_no company
                                    no_of_presenters male_presenter
                                                                 female_presenter
                   BluePine Industries
                                    1
                                                   1
                                                                 0
   1
                 Booz scooters
   1
                   Heart up my Sleeves
                                    1
                                                                 1
   2
                   Tagz Foods
                                    2
                                                   2
                                                                 0
   2
                   Head and Heart
           5
                                                   1
                                                                 3
```

2

Agro tourism

2

```
-- make a new table 'sti data' by joining deals and presenters table
18
19
          CREATE TABLE sti_data AS
20 •
          SELECT d.*,
21
                     p.no_of_presenters, p.male_presenter, p.female_presenter
22
                     FROM deals d
23
                     join presenters p
24
25
                     on d.pitch_no = p.pitch_no;
26
27 •
          SELECT *
          FROM sti_data;
28
29
                                                                            vineeta aman peyush ghazal no_of_presenters male_presenter female_presenter
        pitch_no company
                                                                    anupam
                             75 lakhs for 18% equity
               BluePine Industries
               Booz scooters
                             40 lakhs for 50% equity
                                                                                       N/A
                                                                                              N/A
               Heart up my Sleeves
                             25 lakhs for 30% equity
                                                                                       N/A
                                                                                              N/A
 2
               Tagz Foods
                                                                                       N/A
                                                                                              N/A
                             No Deal
               Head and Heart
 2
               Agro tourism
                             No Deal
                                                                                       N/A
                                                                                             N/A
          -- breaking down deal column into other columns so that data is more easy to understand
30
31
          ALTER TABLE sti_data
32 •
          ADD deal amount text;
33
34
35 •
          ALTER TABLE sti data
          ADD deal equity text;
36
37
38 •
          ALTER TABLE sti data
          ADD deal_debt text;
39
40
          SELECT *
41 •
42
          FROM sti_data;
43
                                          namita anupam
                                                                                                               deal_amount deal_equity deal_debt
          deal
                                                      vineeta aman
                                                                 peyush ghazal no_of_presenters male_presenter
          75 lakhs for 18% equity
• Industries
                                                                 N/A
                                                                                                                        NULL
          40 lakhs for 50% equity
                                                                                                               NULL
                                                                                                                                 NULL
 ooters
                                                                 N/A
 p my Sleeves
          25 lakhs for 30% equity
                                                                 N/A
                                                                        N/A
                                                                 N/A
                                                                       N/A
                                                                                                                        NULL
                                                                                                                                 NULL
 ods
          No Deal
 nd Heart
          No Deal
                                                                 N/A
                                                                        N/A
                                                                                                               NULL
                                                                                                                         NULL
                                                                                                                                 NULL
                                   N
                                                N
          No Deal
                                          N
                                                      N
                                                            Ν
                                                                 N/A
                                                                       N/A
 urism
                                                                                                                                 NULL
                                                                                                                         NULL
          No Deal
```

```
-- Extract deal Amount from deal columns to deal_amount column
44
45
         SET SQL SAFE UPDATES = 0;
46 •
47
48 •
         UPDATE sti data
         SET deal amount = SUBSTRING INDEX(deal, 'for', 1)
49
         WHERE deal like '%equity%';
50
51
         UPDATE sti data
52 •
      SET deal_amount = REPLACE(
53
                                        REPLACE(
54
                                             REPLACE(
55
                                                  REPLACE(
56
                                                       REPLACE(deal_amount,
57
                                                       ' Lakhs',''),
58
                                                       ' lakhs',''),
59
                                                       ' lakh',''),
                                                       ' crore', '00'),
61
62
                                                       ' Crore', '00');
63
         SELECT *
64 •
         FROM sti_data;
65
66
           deal
                                                               peyush ghazal no_of_presenters
 - Industries
          75 lakhs for 18% equity
                                                                                                                    NULL
                                                                                                                             NULL
                                                                                                            40
           40 lakhs for 50% equity
                                                               N/A
                                                                     N/A
  ooters
 p my Slee
          25 lakhs for 30% equity
                                                                                                                     NULL
                                                                                                                             NULL
  ods
          No Deal
                                                           N
                                                               N/A
                                                                     N/A
                                                                                                                     HULL
                                                                                                                             NULL
  nd Heart
                                                                                                           NULL
                                                                                                                    NULL
                                                                                                                             NULL
  urism
          No Deal
                                                               N/A
                                                                     N/A
 67
             -- Extract Deal Equity from deal column to deal_equity column
 68
 69 •
            UPDATE sti data
        SET deal_equity = SUBSTRING_INDEX(
 70
 71
                                                            SUBSTRING_INDEX(deal,
                                                            "%", 1),
 72
                                                            " ",-1)
 73
 74
            WHERE deal like '%quity%';
 75
            SELECT *
 76 •
            FROM sti_data;
 77
 78
           deal
                                    ashneer namita anupam vineeta aman peyush qhazal no of presenters male presenter
                                                                                                 female presenter deal amount deal equity deal debt
▶ e Industries
           75 lakhs for 18% equity
                                                                                                            75
  ooters
           40 lakhs for 50% equity
                                                                N/A
                                                                     N/A
                                                                                                            40
                                                                                                                     50
                                                                                                                             NULL
          25 lakhs for 30% equity
  p my Sleeves
                                                                N/A
                                                                      N/A
                                                                                                                     30
NULL
                                                                                                                             NULL
          No Deal
                                                                                                            NULL
                                                                                                                     NUUL
                                                                                                                             NULL
  nd Heart
          No Deal
                                                                      N/A
          No Deal
                                                                                                           NULL
                                                                                                                    HULL
                                                                                                                             NULL
 Labs
          No Deal
```

```
79
            -- Extract Deal Debt from deal column to deal_debt column
  80
  81 •
            UPDATE sti_data
        SET deal_debt = SUBSTRING_INDEX(
  82
                                                     SUBSTRING_INDEX(
  83
  84
                                                           SUBSTRING_INDEX(LOWER(deal),
                                                           'equity', -1),
  85
                                                           ' ',-3),
  86
                                                           'lakh',1)
  87
            WHERE deal like '%debt%';
  88
  89
            SELECT *
  90 •
  91
            FROM sti_data;
  92
                                                                                            female_presenter deal_amount deal_equity deal_debt
                                  ashneer namita anupam vineeta aman peyush ghazal no_of_presenters male_presenter
           75 lakhs for 18% equity
                                                  Y N
                                                                                                             50
  ooters
          40 lakhs for 50% equity
                                                            N/A
                                                                  N/A
                                                                                                      40
          25 lakhs for 30% equity
                                                                                                                      HULL
  p my Sleeves
                                                            N/A
                                                                  N/A
  ods
          No Deal
                                                            N/A
                                                                  N/A
                                                                                                      HULL
                                                                                                              NULL
                                                                                                                      HULL
  nd Heart
          No Deal
                                                            N/A
                                                                  N/A
          No Deal
                                                            N/A
                                                                  N/A
                                                                                                      NUSEE
                                                                                                              RUE
  Labs
          No Deal
                                                            N/A
                                                                  N/A
          75 lakhs for 6% equity
        -- cleaning sti_data table
 93
 94
       AlTER TABLE sti_data
 95 •
 96
        drop column deal;
 97
 98 • UPDATE sti_data
        SET deal debt = 25
       where deal_debt ='â, 125 ';
100
101
102
        -- replace y with 1 (True)
103
104 • UPDATE sti_data
105 ⊝ SET ashneer = CASE
                       WHEN ashneer = 'Y' THEN 1
107
                       WHEN ashneer = 'N' THEN 0
108
                       WHEN ashneer = 'N/A' THEN 0
      END,
109
     110
                       WHEN namita = 'Y' THEN 1
111
                       WHEN namita = 'N' THEN 0
112
113
                       WHEN namita = 'N/A' THEN 0
114
```

```
115
                       WHEN anupam = 'Y' THEN 1
116
117
                       WHEN anupam = 'N' THEN 0
118
                       WHEN anupam = 'N/A' THEN 0
119
120
     WHEN vineeta = 'Y' THEN 1
121
                       WHEN vineeta = 'N' THEN 0
122
                       WHEN vineeta = 'N/A' THEN 0
123
124
        END,
125
     WHEN aman = 'Y' THEN 1
126
                       WHEN aman = 'N' THEN 0
127
                       WHEN aman = 'N/A' THEN 0
128
129
        END,
130

⇒ peyush = CASE

                       WHEN peyush = 'Y' THEN 1
131
                       WHEN peyush = 'N' THEN 0
132
                       WHEN peyush = 'N/A' THEN 0
133
134
        END,
      135
136
                          WHEN ghazal = 'Y' THEN 1
                          WHEN ghazal = 'N' THEN 0
137
138
                          WHEN ghazal = 'N/A' THEN 0
       END;
139
140
141 • SELECT*
142
         FROM sti_data;
143
                            ashneer namita anupam vineeta aman peyush ghazal no_of_presenters male_presenter female_presenter deal_amount deal_equity deal_debt
 episode pitch_no company
              BluePine Industries
                                                                                                      75
                                                                                                                      NULL
              Booz scooters
               Heart up my Sleeves
                                                                                                                       NULL
  2 4 Tagz Foods
                                                                                                      NULL
              Head and Heart
                                                                                                               NULL
                                                                                                                       NULL
                                                                                                     NULL
                                                                                                              NULL
                                                                                                                      NULL
  2
              Agro tourism
                                                                                                      NULL
                                                                                                               NULL
                                                                                                                       NULL
               Ozense Labs
                                                                                                                      NULL
              Peeschute
                                                                                                      75
              NOCD
144
        -- Fill null values with 0
145
146 • UPDATE sti_data
        Set deal_amount = 0
147
        WHERE deal_amount is null;
148
149
150 • UPDATE sti_data
151
        Set deal_equity = 0
152
        WHERE deal_equity is null;
153
154 • UPDATE sti data
155
        Set deal debt = 0
        WHERE deal_debt is null;
156
157
158 • SELECT *
159
        FROM sti_data;
160
```

episode	pitch_no	company	ashneer	namita	anupam	vineeta	aman	peyush	ghazal	no_of_presenters	male_presenter	female_presenter	deal_amount		deal_debt	
1	1	BluePine Industries	1	0	0	1	1	0	0	3	2	1	75	18	0	
1	2	Booz scooters	1	0	0	1	0	0	0	1	1	0	40	50	0	
2	3	Heart up my Sleeves Tagz Foods	0	0	0	0	0	0	0	1	2	0	25 0	30 0	0	
2	5	Head and Heart	0	0	0	0	0	0	0	4	1	3	0	0	0	
2	6	Agro tourism	0	0	0	0	0	0	0	2	1	1	0	0	0	
3	7	Qzense Labs	0	0	0	0	0	0	0	2	0	2	0	0	0	
3	8	Peeschute	0	0	0	0	1	0	0	1	1	0	75	6	0	
3	9	NOCD	0	0	0	1	0	0	0	2	2	0	20	15	30	
4	10 11	Cosiq JhaJi Achaar	0	0	0	0	0	0	0	2	0	1	0	0	0	
		n columns we e						U	U	2	0	2	U	U	U	
	11 11	COTUMNIS WE E	.xcr acc	ed III o	m dear	COTOM										
62																
63 •	UPDATE	sti_data														
64	SET dea	1 amount = tr	im(dea	l amou	nt);											
65		_		_												
66 •	UPDATE	sti_data														
67	<pre>SET deal_equity = trim(deal_equity);</pre>															
68																
	LIDDATE	cti data														
	UPDATE sti_data															
70	SET dea	al_debt = trim	(deal_	debt);												
71																
72	Change data types															
73		8														
74 •	ALTER TABLE sti_data															
75	MODIFY COLUMN ashneer INT;															
76																
	ALTED 3	ALTER TABLE sti data														
		-														
78	MODIFY	COLUMN namita	INT;													
79																
80 •	ALTER 1	ABLE sti data														
-		_														
81	MODIFY	COLUMN anupam	INT;													

```
183 • ALTER TABLE sti_data
184
     MODIFY COLUMN vineeta INT;
185
186 • ALTER TABLE sti_data
     MODIFY COLUMN aman INT;
187
188
189 • ALTER TABLE sti_data
     MODIFY COLUMN peyush INT;
190
191
192 • ALTER TABLE sti_data
193
     MODIFY COLUMN ghazal INT;
194
195 • ALTER TABLE sti_data
      MODIFY COLUMN deal_amount FLOAT;
196
197
198 • ALTER TABLE sti_data
       MODIFY COLUMN deal_equity FLOAT;
199
200
201 • ALTER TABLE sti_data
202
       MODIFY COLUMN deal_debt FLOAT;
203
204 • SHOW COLUMNS from sti_data;
```

