SQL Code

```sql
1    -- Hi, I am Ayush Kumar, and I am cleaning bike sales da
ta through MySQL
2    USE practice1; -- Selecting practice1 Database
3
4    -- Let's view the data
5    SELECT * FROM bikesales;
6
7    SELECT COUNT(*) FROM bikesales; -- no. of rows
8
9    DESCRIBE bikesales; -- checking the column data types
10
11   UPDATE bikesales
12   SET `Date` = STR_TO_DATE(`Date`, '%m/%d/%Y'); -- format
date
13
14   ALTER TABLE bikesales
15   MODIFY `Date` DATE;
16
17   SELECT * FROM bikesales
18   WHERE (Age_Group = '' OR Age_Group = ' ' OR Age_Group IS
NULL);
19
20   UPDATE bikesales
21   SET Age_Group = 'Adults (35-64)'
22   WHERE `Sales_Order #` = '000261709';
23
24   SELECT * FROM bikesales
25   WHERE Customer_Gender NOT IN ('M', 'F');
26
27   SELECT DISTINCT Country FROM bikesales;
28
29   -- United States has problems in spellings in some rows
30   SELECT DISTINCT Country FROM bikesales
31   WHERE Country LIKE "%States%";
32
33   UPDATE bikesales
```

```sql
34      SET Country = LTRIM(Country);
35
36      UPDATE bikesales
37      SET Country = RTRIM(Country);
38
39      UPDATE bikesales
40      SET Country = "United States"
41      WHERE Country LIKE "%States%";
42
43      -- United States Problem Solved
44      SELECT DISTINCT MONTH FROM bikesales;
45
46      -- Correcting spellings
47      UPDATE bikesales
48      SET MONTH = "December"
49      WHERE MONTH = "Decmber";
50
51      -- Let's check if there are some other spelling mistakes
52      SELECT DISTINCT State FROM bikesales;
53
54      SELECT DISTINCT Product_Category FROM bikesales;
55
56      SELECT DISTINCT Sub_Category FROM bikesales;
57
58      ALTER TABLE bikesales
59      RENAME COLUMN Unit_Cost TO `Unit_Cost ($)`;
60
61      ALTER TABLE bikesales
62      RENAME COLUMN Unit_Price TO `Unit_Price ($)`;
63
64      ALTER TABLE bikesales
65      RENAME COLUMN Profit TO `Profit ($)`;
66
67      ALTER TABLE bikesales
68      RENAME COLUMN Cost TO `Cost ($)`;
69
70      ALTER TABLE bikesales
71      RENAME COLUMN Revenue TO `Revenue ($)`;
72
```

```sql
73   -- Let's format some columns and change them from string
to int
74   UPDATE bikesales
75   SET `Unit_Cost ($)` = REPLACE(`Unit_Cost ($)`, '$', '');
76
77   UPDATE bikesales
78   SET `Unit_Price ($)` = REPLACE(`Unit_Price ($)`, '$',
'');
79
80   UPDATE bikesales
81   SET `Profit ($)` = REPLACE(`Profit ($)`, '$', '');
82
83   UPDATE bikesales
84   SET `Cost ($)` = REPLACE(`Cost ($)`, '$', '');
85
86   UPDATE bikesales
87   SET `Revenue ($)` = REPLACE(`Revenue ($)`, '$', '');
88
89   UPDATE bikesales
90   SET `Unit_Cost ($)` = REPLACE(`Unit_Cost ($)`, ',', '');
91
92   UPDATE bikesales
93   SET `Unit_Price ($)` = REPLACE(`Unit_Price ($)`, ',',
'');
94
95   UPDATE bikesales
96   SET `Profit ($)` = REPLACE(`Profit ($)`, ',', '');
97
98   UPDATE bikesales
99   SET `Cost ($)` = REPLACE(`Cost ($)`, ',', '');
100
101  UPDATE bikesales
102  SET `Revenue ($)` = REPLACE(`Revenue ($)`, ',', '');
103
104  SELECT * FROM bikesales;
105
106  ALTER TABLE bikesales
107  MODIFY `Unit_Cost ($)` INT;
108
```

```sql
109    ALTER TABLE bikesales
110    MODIFY `Unit_Price ($)` INT;
111
112    ALTER TABLE bikesales
113    MODIFY `Profit ($)` INT;
114
115    ALTER TABLE bikesales
116    MODIFY `Cost ($)` INT;
117
118    ALTER TABLE bikesales
119    MODIFY `Revenue ($)` INT;
120
121    SELECT * FROM bikesales
122    WHERE (`Sales_Order #` IS NULL) OR (`Sales_Order #` =
'');
123
124    SELECT * FROM bikesales;
125
126    SELECT * FROM bikesales
127    WHERE (Date IS NULL);
128
129    SELECT * FROM bikesales
130    WHERE (Month IS NULL) OR (Month = '');
131
132    SELECT * FROM bikesales
133    WHERE (Customer_Age IS NULL);
134
135    SELECT * FROM bikesales
136    WHERE (Customer_Gender IS NULL) OR (Customer_Gender =
'');
137
138    SELECT * FROM bikesales
139    WHERE (Country IS NULL) OR (Country = '');
140
141    SELECT * FROM bikesales
142    WHERE (State IS NULL) OR (State = '');
143
144    SELECT * FROM bikesales
145    WHERE (Product_Category IS NULL) OR (Product_Category =
```

```
     '');
146
147    SELECT * FROM bikesales
148    WHERE (Sub_Category IS NULL) OR (Sub_Category = '');
149
150    SELECT * FROM bikesales
151    WHERE (Product_Description IS NULL) OR (Product_Descript
ion = '');
152
153    UPDATE bikesales
154    SET Product_Description = "Unknown"
155    WHERE `Sales_Order #` = '000261715';
156
157    SELECT * FROM bikesales
158    WHERE Order_Quantity IS NULL;
```