

```

1  -- Step 1: Create the unclean data table
2  CREATE TABLE UncleanData (
3      ID INT,
4      Name VARCHAR(50),
5      Email VARCHAR(100),
6      Phone VARCHAR(20),
7      Age INT,
8      Salary DECIMAL(10, 2)
9  );
10
11  -- Step 2: Insert random unclean data into the table
12  INSERT INTO UncleanData (ID, Name, Email, Phone, Age, Salary) VALUES

```

Result Grid Filter Rows: Export: Wrap Cell Content: ☐

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	NULL	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris, Smith	chris.smith@example.com	3456789012	35	-4500.75

UncleanData 2 x

Output

Action Output

#	Time	Action	Message
✓	20 10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓	21 10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone,	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓	22 10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓	23 10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗	24 10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary >	Error Code: 1093. You can't specify target table 'UncleanData' for upd
✓	25 10:13:07	SELECT * FROM UncleanData	11 row(s) returned


```

11 -- Step 2: Insert random unclean data into the table
12 * INSERT INTO UncleanData (ID, Name, Email, Phone, Age, Salary) VALUES
13     (1, 'John Doe', 'john.doe@example.com', '123-456-7890', 30, 55000.00),
14     (2, 'Jane Doe', NULL, '123-456-7890', NULL, 67000.00),
15     (3, 'Michael ', 'michael@example', '234-567-8901', 29, 72000.00),
16     (4, 'Sarah O'Neil', 'sarah.oneil@example.com', NULL, NULL, 47000.50),
17     (5, 'NULL', 'charles.null@example.com', 'NULL', 40, NULL),
18     (6, 'Chris, Smith', 'chris.smith@example.com', '3456789012', 35, -4500.75),
19     (7, 'Emily Davis', 'emily.davis@example.com', 'NULL', 28, 54000.00),
20     (8, 'Daniel Wilson', 'daniel.wilson@example.com', '678-901-2345', NULL, NULL),
21     (8, 'Daniel Wilson', 'daniel.wilson@example.com', '678-901-2345', NULL, NULL), -- Duplicate entry
22     (9, 'NULL', 'NULL', 'NULL', NULL, NULL), -- Entire row is NULL
    
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	NULL	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris, Smith	chris.smith@example.com	3456789012	35	-4500.75

UncleanData 2 x

Output

Action Output

#	Time	Action	Message
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✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%.%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > ...)	Error Code: 1093. You can't specify target table 'UncleanData' for update in FROM
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned

MySQL80

ViewQueryDatabaseServerToolsScriptingHelp

SQL File 14*SQL File 15*SQL File 16*SQL File 17*SQL File 18*SQL File 19*SQL File 18*SQL File 19*SQL File 21*SQL File 22*

Don't Limit

18(6, 'Chris, Smith', 'chris.smith@example.com', '3456789012', 35, -4500.75),

19(7, 'Emily Davis', 'emily.davis@example.com', 'NULL', 28, 54000.00),

20(8, 'Daniel Wilson', 'daniel.wilson@example.com', '678-901-2345', NULL, NULL),

21(8, 'Daniel Wilson', 'daniel.wilson@example.com', '678-901-2345', NULL, NULL), -- Duplicate entry

22(9, 'NULL', 'NULL', 'NULL', NULL, NULL), -- Entire row is NULL

23(10, 'Anne-Marie', 'annemarie@example.com', '(123) 456-7890', 45, 61000.00),

24(NULL, 'No ID', 'noid@example.com', '456-789-0123', 37, 58000.25),

25(12, 'Johnathan Taylor', NULL, '2345678901', 27, NULL),

26(13, 'Amanda\tSmith', 'amanda.smith@example.com', '345-678-9012', NULL, 83000.00);

27

28-- Step 3: View the unclean data

29SELECT * FROM UncleanData;

Result Grid

Filter Rows:

Exports

Wrap Cell Content:

ID	Name	Email	Phone	Age	Salary
4	Sarah O'Neil	sarah.oneil@example.com	NULL	NULL	47000.50
5	NULL	charles.null@example.com	NULL	40	NULL
6	Chris, Smith	chris.smith@example.com	3456789012	35	-4500.75
7	Emily Davis	emily.davis@example.com	NULL	28	54000.00
8	Daniel Wilson	daniel.wilson@example.com	678-901-2345	NULL	NULL
8	Daniel Wilson	daniel.wilson@example.com	678-901-2345	NULL	NULL

UncleanData 2

Output

Action Output

#	Time	Action	Message
✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%.%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > ...)	Error Code: 1093. You can't specify target table 'UncleanData' for update in FROM clause
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned


```

1  -- QUES 2) To clean up the unclean data in our UncleanData table, we'll use SQL operations to remove or replace NULL values, star
2
3  -- Step 1: Handle NULL Values
4
5  -- For each column with NULL values, decide if you want to replace the NULL with a default value or remove the row. Here, we'll:
6
7  -- Replace NULL in the Name column with "Unknown".
8
9  -- Replace NULL in the Email column with "unknown@example.com".
10
11 -- Replace NULL in the Phone column with a placeholder phone number, e.g., "000-000-0000".
12

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

ID	Name	Email	Phone	Age	Salary
6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75
7	Emily Davis	emily.davis@example.com	NULL	28	54000.00
10	Anne-Marie	annemarie@example.com	(123) 456-7890	45	61000.00
NULL	No ID	noid@example.com	456-789-0123	37	58000.25
12	Johnathan Taylor	NULL	234-567-8901	27	NULL
13	AmandaSmith	amanda.smith@example....	345-678-9012	NULL	83000.00

UncleanData 1 x

Output

Action Output

#	Time	Action	Message
✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%.%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%.%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > ...)	Error Code: 1093. You can't specify target table 'UncleanData' for update in FROM clause
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned

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Result Grid
Form Editor

Read Only Context Help


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13  -- Replace NULL in Age and Salary with average values from non-NULL entries.
14
15
16  -- Fill NULL values with defaults
17 • UPDATE UncleanData
18     SET Name = 'Unknown'
19     WHERE Name IS NULL;
20
21 • UPDATE UncleanData
22     SET Email = 'unknown@example.com'
23     WHERE Email IS NULL;
24

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example.com	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75

UncleanData 1 x

Output

Action Output

#	Time	Action	Message
✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected

SQL File 14* SQL File 15* SQL File 16* SQL File 17* SQL File 18* SQL File 19* SQL File 18* SQL File 19 SQL File 21* SQL File 22*

```

25 • UPDATE UncleanData
26   SET Phone = '000-000-0000'
27   WHERE Phone IS NULL;
28
29   -- Calculate average values for Age and Salary, then use these to fill NULLs
30 • UPDATE UncleanData
31   SET Age = (SELECT AVG(Age) FROM UncleanData WHERE Age IS NOT NULL)
32   WHERE Age IS NULL;
33
34 • UPDATE UncleanData
35   SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary IS NOT NULL)
36   WHERE Salary IS NULL;

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example.com	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75

UncleanData 1 x

Output

Action Output

#	Time	Action	Message
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✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > 0)	Error Code: 1093. You can't specify target table 'UncleanData' for update
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned

SQL File 14* SQL File 15* SQL File 16* SQL File 17* SQL File 18* SQL File 19* SQL File 18* SQL File 19 SQL File 21* SQL File 22*

```

38  -- Step 2: Remove Duplicates.
39
40  -- Remove rows with duplicate ID values. Alternatively, if a table lacks a primary key constraint, you could use ROW_NUMBER() to
41
42  -- Remove duplicate rows based on ID (assuming ID is unique)
43  • DELETE FROM UncleanData
44  WHERE ID IN (
45      SELECT ID
46      FROM (
47          SELECT ID, ROW_NUMBER() OVER(PARTITION BY ID ORDER BY ID) AS row_num
48          FROM UncleanData
49      ) AS duplicates

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example.com	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75

UncleanData 1 x

Output

Action Output

#	Time	Action	Message
✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 12))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%.com'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%.com'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > 50000)	Error Code: 1093 You can't specify target table 'UncleanData' for update in FROM clause
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned



Form Editor

Read Only Content


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50 WHERE row_num > 1
51 );
52
53 -- Step 3: Correct Data Formats
54
55 -- 1. Remove Extra Spaces, Tabs, or Commas from Name using TRIM and REPLACE.
56
57
58 -- 2. Standardize Phone Format to XXX-XXX-XXXX.
59
60
61 -- 3. Ensure Valid Email Format by filtering out emails missing the "@" symbol or domain.
    
```

Result Grid

Filter Rows: Export: Wrap Cell Content:

ID	Name	Email	Phone	Age	Salary
1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
2	Jane Doe	NULL	123-456-7890	NULL	67000.00
3	Michael	michael@example.com	234-567-8901	29	72000.00
4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
5	NULL	charles.null@example.com	NULL	40	NULL
6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75

Output

Action Output

#	Time	Action	Message
20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 7))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > 0)	Error Code: 1093. You can't specify target table 'UncleanData' in SET clause
25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned

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Triggers

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65 -- Standardize Name by removing extra spaces and commas
66 • UPDATE UncleanData
67   SET Name = REPLACE(TRIM(Name), ',', '');
68
69 -- Standardize Phone format to XXX-XXX-XXXX
70 • UPDATE UncleanData
71   SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 3), '-', SUBSTRING(Phone, 7, 4))
72   WHERE Phone REGEXP '^[0-9]{10}$';
73
74 -- Correct Email entries that lack a proper format
75 • UPDATE UncleanData
76   SET Email = CONCAT(Email, '.com')

```

Result Grid Filter Rows: Export: Wrap Cell Contents:

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example.com	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75

UncleanData 1 x

Output

Action Output

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✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ',', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warning: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 3), '-', SUBSTRING(Phone, 7, 4)) WHERE Phone REGEXP '^[0-9]{10}\$';	2 row(s) affected Rows matched: 2 Changed: 2 Warning: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%'	2 row(s) affected Rows matched: 2 Changed: 2 Warning: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > ...)	Error Code: 1093. You can't specify target table 'UncleanData' in a SET clause.
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned


```

77 WHERE Email NOT LIKE '%X.X%';
78
79 -- Filter out invalid entries if needed
80 • DELETE FROM UncleanData
81 WHERE Email NOT LIKE '%X.X%';
82
83 -- Step 4: Correct Negative or Invalid Salary
84
85 -- Replace negative values in the Salary column with the average salary.
86
87 -- Calculate average salary excluding negative values
88 • UPDATE UncleanData
  
```

Result Grid Filter Rows: Export: Wrap Cell Content: ☐

ID	Name	Email	Phone	Age	Salary
1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
2	Jane Doe	NULL	123-456-7890	NULL	67000.00
3	Michael	michael@example.com	234-567-8901	29	72000.00
4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
5	NULL	charles.null@example.com	NULL	40	NULL
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✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%.%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > ...)	Error Code: 1093. You can't specify target table 'UncleanData' for update in this statement.
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned


```

89 SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > 0)
90 WHERE Salary < 0;
91
92 -- Step 5: Ensure Consistent Data Types
93
94 -- If your SQL environment requires enforcing data types, ensure columns like ID, Age, and Salary have the right type constraints:
95
96 -- Step 6: View Cleaned Data
97
98 -- After performing these operations, review the cleaned data.
99
100 • SELECT * FROM UncleanData;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ☐

	ID	Name	Email	Phone	Age	Salary
▶	1	John Doe	john.doe@example.com	123-456-7890	30	55000.00
	2	Jane Doe	NULL	123-456-7890	NULL	67000.00
	3	Michael	michael@example.com	234-567-8901	29	72000.00
	4	Sarah O'Neil	sarah.oneil@example.com	000-000-0000	NULL	47000.50
	5	NULL	charles.null@example.com	NULL	40	NULL
	6	Chris Smith	chris.smith@example.com	345-678-9012	35	-4500.75

UncleanData 1 x

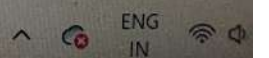
Output

Action Output

#	Time	Action	Message
✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), '-', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%.com'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%.com'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > 0)	Error Code: 1093. You can't specify target table 'UncleanData' for update in FROM clause
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Search




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91
92 -- Step 5: Ensure Consistent Data Types
93
94 -- If your SQL environment requires enforcing data types, ensure columns like ID, Age, and Salary have the right type constraints:
95
96 -- Step 6: View Cleaned Data
97
98 -- After performing these operations, review the cleaned data.
99
100 • SELECT * FROM UncleanData;-
101
102 -- This series of operations will give you a cleaned, consistent dataset, ready for analysis or further processing.
    
```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content:

	ID	Name	Email	Phone	Age	Salary
	6	Chris Smith	chris.smith@example.com	345-678-9012	35	4500.75
	7	Emily Davis	emily.davis@example.com	NULL	28	54000.00
	10	Anne-Marie	annemarie@example.com	(123) 456-7890	45	61000.00
	NULL	No ID	noid@example.com	456-789-0123	37	58000.25
	12	Johnathan Taylor	NULL	234-567-8901	27	NULL
	13	AmandaSmith	amanda.smith@example....	345-678-9012	NULL	83000.00

UncleanData 1 x

Output

#	Time	Action	Message
✓ 20	10:11:39	UPDATE UncleanData SET Name = REPLACE(TRIM(Name), ' ', '')	2 row(s) affected Rows matched: 12 Changed: 2 Warnings: 0
✓ 21	10:11:43	UPDATE UncleanData SET Phone = CONCAT(SUBSTRING(Phone, 1, 3), ' ', SUBSTRING(Phone, 4, 10))	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 22	10:11:50	UPDATE UncleanData SET Email = CONCAT(Email, '.com') WHERE Email NOT LIKE '%@%.%'	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
✓ 23	10:11:53	DELETE FROM UncleanData WHERE Email NOT LIKE '%@%'	1 row(s) affected
✗ 24	10:12:19	UPDATE UncleanData SET Salary = (SELECT AVG(Salary) FROM UncleanData WHERE Salary > 50000)	Error Code: 1093: You can't specify target table 'UncleanData' for update in FROM clause
✓ 25	10:13:07	SELECT * FROM UncleanData	11 row(s) returned