

UD4

## **Activity 4**

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## Objective

Practice using the UPDATE statement in MySQL with conditions, NULL checks and basic functions.

## Description

Under each question:

- Paste the **SQL code** you used.
- Include a **screenshot** showing the updated record(s) in the table.

## Exercises

**Important:** Disable safe mode (SQL\_SAFE\_UPDATES) before starting.

3 • **SET SQL\_SAFE\_UPDATES = 0;** |

1. Change the phone of the user with user\_ID = 2.

```
5   -- 1  
6 • UPDATE user  
7   SET phone = 64736473  
8   WHERE user_id = 2;
```

2. Change the role to "external" for all users whose role is NOT "admin".

```
10  -- 2  
11 • UPDATE user  
12   SET role = 'external'  
13   WHERE role <> 'admin';
```

3. Change the title of all posts whose post\_ID is greater than 1.

```
15    -- 3
16 • UPDATE post
17   SET title = 'CHANGED'
18 WHERE post_id > 1;
```

4. Change the content of all posts whose post\_ID is less than 3.

```
20    -- 4
21 • UPDATE post
22   SET content = 'changed the content'
23 WHERE post_id < 3;
24 |
```

Action Output			
#	Time	Action	Message
✓ 1	17:51:17	UPDATE post SET content = 'changed the content...' WHERE post_id < 3;	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0

5. Modify the publication\_date and set it to NOW() in all posts with post\_ID  $\geq 2$ .

```
25    -- 5
26 • UPDATE post
27   SET post_date = NOW()
28 WHERE post_id >= 2;
29 |
```

Action Output			
#	Time	Action	Message
✓ 1	17:51:17	UPDATE post SET content = 'changed the content...' WHERE post_id >= 2;	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0
⚠ 2	17:57:56	UPDATE post SET post_date = NOW() WHERE post_id >= 2;	2 row(s) affected, 2 warning(s): 1292 Incorrect date value: '2025-12-11 17:57:56' for column 'post_date' at row 1 1292 Incorrect date value: '2025-12-11 17:57:56' for column 'post_date' at row 2 Rows matched: 2 Changed: 2 Warnings: 2

6. Change the title field to "Archived" in all posts with post\_ID  $\leq 4$ .

```
30    -- 6
31 • UPDATE post
32   SET title = 'Archived'
33 WHERE post_id <= 4;
34 |
```

Action Output			
#	Time	Action	Message
✓ 1	18:00:01	UPDATE post SET title = 'Archived' WHERE post_id <= 4;	3 row(s) affected Rows matched: 3 Changed: 3 Warnings: 0

7. Change the role to "Verified" for users whose role is "external" and whose registration\_date is earlier than '2025-01-01'.

```

35   -- 7
36 • UPDATE user
37   SET role = 'Verified'
38   WHERE role = 'external'
39   AND register_date < '2025-01-01';
40

```

Action Output				
#	Time	Action	Message	Duration / F
✓ 1	18:05:27	UPDATE user SET role = 'Verified' WHERE role = ...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0,00086 sec

8. Change the role to "admin" for the users with user\_ID 1 or 3.

```

41   -- 8
42 • UPDATE user
43   SET role = 'admin'
44   WHERE user_id = 1
45   OR user_id = 3;
46

```

Action Output				
#	Time	Action	Message	Duration / F
✓ 1	18:08:13	UPDATE user SET role = 'admin' WHERE user_id ...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0,0011 sec

9. Change the content of the comments whose comment\_ID > 1 and whose user\_ID is 2.

```

51   -- 9
52 • UPDATE comment
53   SET comment_text = 'change the content'
54   WHERE comment_id > 1
55   AND user_id = 2;
56

```

Action Output				
#	Time	Action	Message	Duration / F
✓ 1	18:12:57	UPDATE comment SET comment_text = 'change t...'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0,0041 sec

10. Change the role to "pending" for all users who are NOT "admin".

```

57   -- 10
58 • UPDATE user
59   SET role = 'pending'
60   WHERE role <> 'admin';
61

```

Action Output				
#	Time	Action	Message	Duration / F
✓ 1	19:11:51	UPDATE user SET role = 'pending' WHERE role <...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	

11. Update the registration\_date of all users to the current system date and time, but only for those records that have a value in the phone field (i.e. the phone is not NULL).

```
62    -- 11
63 • UPDATE user
64   SET register_date = CURRENT_DATE()
65 WHERE phone IS NOT NULL;
66
```

Action Output			Message
#	Time	Action	
✓ 1	19:16:56	UPDATE user SET register_date = CURRENT_DATE() WHERE phone IS NOT NULL;	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0

12. Fill the phone with "999111222" for all users without a phone number (where phone is NULL).

```
67    -- 12
68 • UPDATE user
69   SET phone = 999111222
70 WHERE phone IS NULL;
```

Action Output			Message
#	Time	Action	
✓ 1	19:19:55	UPDATE user SET phone = 999111222 WHERE phone IS NULL;	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0

13. Change the role to "verified" for all users who do have a phone number (phone is NOT NULL).

```
72    -- 13
73 • UPDATE user
74   SET role = 'verified'
75 WHERE phone IS NOT NULL;
76
```

Action Output			Message
#	Time	Action	
✓ 1	19:24:46	UPDATE user SET role = 'verified' WHERE phone ...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0

**14.** Set the name to 'Unknown user' for users whose name is NULL.

```

77  -- 14
78 • UPDATE user
79   SET name = 'Unknown user'
80 WHERE name IS NULL;
81

```

Action Output			
#	Time	Action	Message
✓ 1	19:28:02	UPDATE user SET name = 'Unknown user' WHERE name IS NULL;	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

**15.** Set the publication\_date to NOW() for all posts that have a NULL date.

```

82  -- 15
83 • UPDATE post
84   SET post_date = NOW()
85 WHERE post_date IS NULL;
86

```

Action Output			
#	Time	Action	Message
✓ 1	19:29:35	UPDATE post SET post_date = NOW() WHERE post_date IS NULL;	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0

**16.** Change the role to "premium" for all users whose email is NOT NULL and whose user\_ID is greater than 2.

```

87  -- 16
88 • UPDATE user
89   SET role = 'premium'
90 WHERE email IS NOT NULL
91 AND user_id > 2;
92

```

Action Output			
#	Time	Action	Message
✓ 1	19:31:46	UPDATE user SET role = 'premium' WHERE email IS NOT NULL AND user_id > 2;	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0

- 17.** Change the title of the posts whose post\_ID is less than 3 **or** greater than 10.

```

93    -- 17
94 • UPDATE post
95   SET title = 'Change the title'
96   WHERE post_id < 3
97   OR post_id > 10;
98

```

Action Output		
#	Time	Action
✓ 1	19:33:33	UPDATE post SET title = 'Change the title' WHERE post_id < 3 OR post_id > 10;

2 row(s) affected  
Rows matched: 2 Changed: 2 Warnings: 0

- 18.** Change the content of comments whose user\_ID is 1 or 3, and whose comment\_ID is greater than 2.

```

99    -- 18
100 • UPDATE comment
101   SET comment_text = 'change the content'
102   WHERE user_id = 1
103   OR user_id = 3
104   AND comment_id > 2;
105

```

Action Output		
#	Time	Action
✓ 1	13:21:42	UPDATE comment SET comment_text = 'change the content' WHERE user_id = 1 OR user_id = 3 AND comment_id > 2;

12 row(s) affected  
Rows matched: 12 Changed: 12 Warnings: 0 0,0095 sec

- 19.** Modify the email of the user whose user\_ID is 4 **only if** their phone is NULL **and** their registration\_date is NULL.

```

106    -- 19
107 • UPDATE user
108   SET email = 'change@email.com'
109   WHERE user_id = 4
110   AND phone IS NULL
111   AND register_date IS NULL;
112

```

Action Output		
#	Time	Action
✓ 1	13:28:53	UPDATE user SET email = 'change@email.com' WHERE user_id = 4 AND phone IS NULL AND register_date IS NULL;

0 row(s) affected  
Rows matched: 0 Changed: 0 Warnings: 0 0,0027 sec

- 20.** Change the role to "archived" for all users whose user\_ID <= 3 and whose phone is NULL.

```

113  -- 20
114 • UPDATE user
115   SET role = 'archived'
116   WHERE user_id <= 3
117   AND phone IS NULL;
118

```

Action Output			
#	Time	Action	Message
✓ 1	13:43:52	UPDATE user SET role = 'archived' WHERE user_i...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0 0,00051 sec

- 21.** Change the content of posts with post\_ID between 2 and 4 using >= and <=.

```

--- 21
119
120 • UPDATE post
121   SET content = 'change content'
122   WHERE post_id >= 2 AND post_id <= 4;
123

```

Action Output			
#	Time	Action	Message
✓ 1	13:50:25	UPDATE post SET content = 'change content' WH...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0 0,0072 sec

- 22.** Set the phone to "000000000" for users who are **not** "admin" and whose user\_ID is different from 1.

```

124  -- 22
125 • UPDATE user
126   SET phone = 000000000
127   WHERE role <> 'admin'
128   AND user_id <> 1;
129

```

Action Output			
#	Time	Action	Message
✓ 1	14:04:08	UPDATE user SET phone = 000000000 WHERE r...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0,0035 sec

**23.** Convert the email to lowercase for all users using LOWER().

```
130  -- 23
131 • UPDATE user
132   SET email = LOWER(email);
133
```

Action Output			
#	Time	Action	Message
✓ 1	14:05:40	UPDATE user SET email = LOWER(email)	0 row(s) affected Rows matched: 2 Changed: 0 Warnings: 0 0,00052 sec

**24.** Convert the role to UPPERCASE using UPPER() for users whose user\_ID is greater than 3.

```
134  -- 24
135 • UPDATE user
136   SET role = UPPER(role)
137 WHERE user_id > 3;
138
```

Action Output			
#	Time	Action	Message
✓ 1	14:06:56	UPDATE user SET role = UPPER(role) WHERE use...	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0 0,00098 sec

**25.** Add the prefix +34- to the phone of users who already have a phone number, using CONCAT().

```
139  -- 25
140 • UPDATE user
141   SET phone = CONCAT('+34-', ' ')
142 WHERE phone IS NOT NULL;
143
```

Action Output			
#	Time	Action	Message
✓ 1	14:08:53	UPDATE user SET phone = CONCAT('+34-', ' ') W...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0 0,0038 sec

**26.** Set the simple\_date (a DATE field) to the current date using CURDATE() for posts with post\_ID less than 5.

```
144  -- 26
145 • UPDATE post
146   SET simple_date = CURDATE()
147 WHERE post_id < 5;
148
```

Action Output			
#	Time	Action	Message
✓ 1	14:10:52	UPDATE post SET simple_date = CURDATE() WH...	3 row(s) affected Rows matched: 3 Changed: 3 Warnings: 0 0,0039 sec

**27.** Remove extra spaces in the name of all users using TRIM().

```
149    -- 27
150 • UPDATE user
151   SET name = TRIM(name);
152
```

Action Output			Message	Duration / Fe
#	Time	Action		
• 1	14:11:58	UPDATE user SET name = TRIM(name)	0 row(s) affected Rows matched: 2 Changed: 0 Warnings: 0	0,00087 sec

**28.** Replace hyphens "-" with spaces " " in the content using REPLACE().

```
153    -- 28
154 • UPDATE post
155   SET content = REPLACE(content, '- ', ' ');
156
```

Action Output			Message	Duration / Fe
#	Time	Action		
• 1	14:14:37	UPDATE post SET content = REPLACE(content, '- ', ' ')	0 row(s) affected Rows matched: 3 Changed: 0 Warnings: 0	0,0010 sec

**29.** Shorten the name to the first 5 characters using LEFT().

```
157    -- 29
158 • UPDATE user
159   SET name = LEFT(name, 5);
160
```

Action Output			Message	Duration / Fe
#	Time	Action		
• 1	14:16:16	UPDATE user SET name = LEFT(name, 5)	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0,0036 sec

**30.** Shorten the surname to the last 4 characters using RIGHT().

```
164    -- 30
165 • UPDATE user
166   SET surname = RIGHT(surname, 4);
167
```

Action Output			Message	Duration / Fe
#	Time	Action		
• 1	14:18:18	UPDATE user SET surname = RIGHT(surname, 4)	0 row(s) affected Rows matched: 2 Changed: 0 Warnings: 0	0,00087 sec

- 31.** Change the role to "LONG" for users whose role has more than 6 characters, using LENGTH().

```
168    -- 31
169 • UPDATE user
170   SET role = 'LONG'
171   WHERE LENGTH(role) > 6;
172
```

Action Output	#	Time	Action	Message	Duration /
✓	1	14:21:07	UPDATE user SET role = 'LONG' WHERE LENGTH...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0,0050 sec

- 32.** Use IF() to set the role to "vip" if the user is "admin", or "normal" if they are not.

```
173    -- 32
174 • UPDATE user
175   SET role = IF (role = 'admin', 'vip', 'normal');
176
```

Action Output	#	Time	Action	Message	Duration /
✓	1	15:47:19	UPDATE user SET role = IF (role = 'admin', 'vip', ...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0,013 sec

- 33.** Update registration\_date using IF():

If the role is "admin", set registration\_date to the current date and time with NOW().

If the role is **not** "admin", keep the existing registration\_date value.

```
177    -- 33
178 • UPDATE user
179   SET register_date = IF(role = 'admin', NOW(), register_date);
180
```

Action Output	#	Time	Action	Message	Duration /
✓	1	15:53:04	UPDATE user SET register_date = IF(role = 'admin...',	0 row(s) affected Rows matched: 2 Changed: 0 Warnings: 0	0,00074 sec

## Activity submission

Export your work to **PDF format** and submit it through **Google Classroom**.