

UD4

Activity 4

David Nagy György

1r DAM BD

Angela Maria Solarte Bolaños

ÍNDICE

Objective.....	3
Description.....	3
Exercises.....	3
Activity submission.....	12

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	Duration / Fe
✓ 1	17:51:17	UPDATE post SET content = 'changed the content...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0,0037 sec

5. Modify the publication_date and set it to NOW() in all posts with post_ID ≥ 2 .

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

Action Output				
#	Time	Action	Message	Duration / Fe
✓ 1	17:51:17	UPDATE post SET content = 'changed the content...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	0,0037 sec
⚠ 2	17:57:56	UPDATE post SET post_date = NOW() WHERE po...	2 row(s) affected, 2 warning(s): 1292 Incorrect date value: '2025-12-11 17:57:56' for column 'po... 1292 Incorrect date value: '2025-12-11 17:57:56' for column 'po... Rows matched: 2 Changed: 2 Warnings: 2	0,0045 sec

6. Change the title field to "Archived" in all posts with post_ID ≤ 4 .

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

Action Output				
#	Time	Action	Message	Duration / Fe
✓ 1	18:00:01	UPDATE post SET title = 'Archived' WHERE post_I...	3 row(s) affected Rows matched: 3 Changed: 3 Warnings: 0	0,0043 sec

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				
#	Time	Action	Message	
✓ 1	19:16:56	UPDATE user SET register_date = CURRENT_DAT...	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				
#	Time	Action	Message	
✓ 1	19:19:55	UPDATE user SET phone = 999111222 WHERE ph...	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				
#	Time	Action	Message	
✓ 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...	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 po...	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...	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	Message	
✓ 1	19:33:33	UPDATE post SET title = 'Change the title' WHER...	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	Message	Duration / F
✓ 1	13:21:42	UPDATE comment SET comment_text = 'change t...	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	Message	Duration /
✓ 1	13:28:53	UPDATE user SET email = 'change@email.com' ...	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	Duration / F
✓ 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 <=.

```

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

```

Action Output				
#	Time	Action	Message	Duration / F
✓ 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	Duration / F
✓ 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	Duration / Fe
✓ 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	Duration / Fe
✓ 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	Duration / F
✓ 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	Duration / F
✓ 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					
#	Time	Action	Message	Duration / Fe	
✓ 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					
#	Time	Action	Message	Duration / Fe	
✓ 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					
#	Time	Action	Message	Duration / Fe	
✓ 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					
#	Time	Action	Message	Duration / Fe	
✓ 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 / Fe
✓ 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 / Fe
✓ 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**.