

SQL — Practice

CSCI 40

Fall 2026

LLM evaluation

2026-08-26

Re-evaluation pending after quiz-bank corrections.

Total Score: _____/4 Quiz rules:

1. You MAY use any printed or handwritten notes.
2. You MAY NOT use a computer or any other electronic device.

For each SQL SELECT statement below, write the output. If there is no output, write No Output.
quiz_practice_schema.sql

```
1  -----
2  -- users
3  -----
4
5  CREATE TABLE users (
6      id INTEGER PRIMARY KEY,
7      username TEXT NOT NULL UNIQUE,
8      password TEXT NOT NULL,
9      age INTEGER
10 );
11
12 INSERT INTO users (username, password, age) VALUES ('Trump', 'TRUMP', 76);
13 INSERT INTO users (username, password, age) VALUES ('Biden', '12345', 79);
14 INSERT INTO users (username, password, age) VALUES ('Evan', 'correct horse battery staple', 7);
15 INSERT INTO users (username, password, age) VALUES ('Isaac', 'soccer', 4);
16 INSERT INTO users (username, password, age) VALUES ('Aaron', 'guaguagua', 3);
17 INSERT INTO users (username, password, age) VALUES ('Aurelia', '', 2);
18 INSERT INTO users (username, password, age) VALUES ('Teal', '524euTjrWm6uK2C5iw8mC6aNgX1JI78o',
19      38);
20 INSERT INTO users (username, password) VALUES ('Kristen', 'Possible-Rich-Absolute-Battle');
21
22 -----
23 -- messages
24 -----
25
26 create table messages (
27     id integer primary key,
28     sender_id integer not null references users(id),
29     message text not null,
30     created_at timestamp not null default current_timestamp
31 );
32
33 insert into messages (sender_id,message,created_at) values
34     (1, 'I''m a baby', '2022-11-14 14:30:00'),
35     (2, 'I''m a baby', '2022-11-14 14:30:00'),
36     (3, 'I''m a baby', '2022-11-14 14:33:01'),
37     (4, 'I''m a baby', '2022-11-15 14:35:45');
38
39 insert into messages (sender_id,message,created_at) values
40     (3, 'I''m actually a toddler', '2022-11-16 14:35:45');
41 insert into messages (sender_id,message,created_at) values
42     (6, 'Today in 1918, the Armistice that effectively ended WWI came into effect.', '2022-11-11
43     11:00:00');
44 insert into messages (sender_id,message,created_at) values
45     (6, 'I''m an adult', '2022-11-17 14:35:25'),
46     (6, 'SQL is the best!!', '2022-11-17 15:52:45'),
```

```

45      (7, 'I''m an adult', '2022-11-17 16:12:21'),
46      (7, 'WTF is SQL?! I thought you liked the snake thing.', '2022-11-17 15:53:47');

```

quiz_practice_problems.sql

```

1  /*
2   * For each problem below, write the output of the SQL SELECT statement.
3   * If there is no output, write "No Output".
4   * There should be no errors given by any of these problems.
5   * Your quiz will have 4 problems, each worth 1 point.
6   * Problems 15-20 change the data. Reload quiz_practice_schema.sql before
7   * each one so that an earlier DELETE or UPDATE does not affect the answers.
8   */
9
10 -----
11 -- Problem 1
12 -----
13
14 SELECT id FROM users WHERE username = 'Trump';
15
16
17
18
19 -----
20 -- Problem 2
21 -----
22
23 SELECT id FROM users WHERE username = 'trump';
24
25
26
27
28 -----
29 -- Problem 3
30 -----
31
32 SELECT id FROM users WHERE username LIKE 'trump';
33
34
35
36
37 -----
38 -- Problem 4
39 -----
40
41 SELECT id FROM users WHERE username LIKE 'TRUMP';
42
43
44
45
46 -----
47 -- Problem 5
48 -----
49
50 SELECT id FROM users WHERE username LIKE 'a%' ORDER BY id;
51
52
53
54
55 -----
56 -- Problem 6
57 -----
58
59 SELECT id FROM users WHERE username LIKE '%a';
60
61
62

```

```

63 | -----
64 |
65 | -- Problem 7
66 | -----
67 |
68 | SELECT id FROM users WHERE username LIKE '%a%' ORDER BY username;
69 |
70 |
71 |
72 | -----
73 |
74 | -- Problem 8
75 | -----
76 |
77 | SELECT id FROM users WHERE age IS NULL;
78 |
79 |
80 |
81 | -----
82 |
83 | -- Problem 9
84 | -----
85 |
86 | SELECT id FROM users ORDER BY username DESC;
87 |
88 |
89 |
90 |
91 | -----
92 | -- Problem 10
93 | -----
94 |
95 | SELECT id FROM users ORDER BY age ASC;
96 |
97 |
98 |
99 |
100 | -----
101 | -- Problem 11
102 | -----
103 |
104 | SELECT id FROM users ORDER BY username ASC;
105 |
106 |
107 |
108 |
109 | -----
110 | -- Problem 12
111 | -----
112 |
113 | SELECT count(*) FROM messages;
114 |
115 |
116 |
117 |
118 | -----
119 | -- Problem 13
120 | -----
121 |
122 | SELECT count(*) FROM messages WHERE sender_id=4;
123 |
124 |
125 |
126 |
127 |
128 | -----
129 | -- Problem 14
130 | -----

```

```

131
132 SELECT count(*) FROM messages WHERE sender_id < 4;
133
134
135 -----
136 -- Problem 15
137 -----
138
139 DELETE FROM messages;
140 SELECT count(*) FROM messages;
141
142
143
144
145 -----
146 -- Problem 16
147 -----
148
149 DELETE FROM messages WHERE sender_id=1;
150 SELECT count(*) FROM messages;
151
152
153
154
155
156 -----
157 -- Problem 17
158 -----
159
160 DELETE FROM messages WHERE message LIKE '%a%';
161 SELECT count(*) FROM messages;
162
163
164
165
166
167 -----
168 -- Problem 18
169 -----
170
171 DELETE FROM messages WHERE sender_id=3 OR sender_id=0;
172 SELECT count(*) FROM messages;
173
174
175
176
177 -----
178 -- Problem 19
179 -----
180
181 UPDATE users SET password='@realdonaldtrump';
182 SELECT count(*) FROM users WHERE password LIKE '@%';
183
184
185
186
187
188
189 -----
190 -- Problem 20
191 -----
192
193 UPDATE users SET username='@realdonaldtrump' WHERE id=1;
194 SELECT count(*) FROM users WHERE username LIKE '@%';

```

SQL — Answer Key

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Problem 1 (source item 01)

Answer:

1

Problem 2 (source item 02)

Answer:

No Output

Problem 3 (source item 03)

Answer:

1

Problem 4 (source item 04)

Answer:

1

Problem 5 (source item 05)

Answer:

5

6

Problem 6 (source item 06)

Answer:

6

Problem 7 (source item 07)

Answer:

5

6

3

4

7

Problem 8 (source item 08)

Answer:

8

Problem 9 (source item 09)

Answer:

1
7
8
4
3
2
6
5

Problem 10 (source item 10)

Answer:

8
6
5
4
3
7
1
2

Problem 11 (source item 11)

Answer:

5
6
2
3
4
8
7
1

Problem 12 (source item 12)

Answer:

10

Problem 13 (source item 13)

Answer:

1

Problem 14 (source item 14)

Answer:

4

Problem 15 (source item 15)

Answer:

0

Problem 16 (source item 16)

Answer:

9

Problem 17 (source item 17)

Answer:

1

Problem 18 (source item 18)

Answer:

8

Problem 19 (source item 19)

Answer:

8

Problem 20 (source item 20)

Answer:

1