

SQL — Practice

CSCI 40: Computing for the Web

Fall 2026

How current LLMs scored on this practice bank			2026-08-26
Model	Reasoning	Score	
claude-haiku-4.5	low effort	16/19 (84%)	
claude-sonnet-5	low effort	15/19 (79%)	
claude-fable-5	low effort	17/19 (89%)	
claude-opus-4.8	low effort	17/19 (89%)	
gpt-5.6-luna	low reasoning	17/19 (89%)	
gpt-5.4	low reasoning	16/19 (84%)	
gpt-5.6-terra	low reasoning	13/19 (68%)	
gpt-5.5	low reasoning	16/19 (84%)	
gpt-5.6-sol	low reasoning	16/19 (84%)	
gemini-3.1-flash-lite	minimal thinking	8/19 (42%)	
gemini-3.5-flash-lite	minimal thinking	12/19 (63%)	
gemini-3.6-flash	minimal thinking	10/19 (53%)	
gemini-3.7-flash	low thinking	17/19 (89%)	
One independent, tool-free prompt per question; deterministic executable ground truth.			

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_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 2 points.
6   */
7
8  -----
9  -- Problem 1
10 -----
11
12 SELECT id FROM users WHERE username = 'Trump';
13
14
15
16
17 -----
18 -- Problem 2
19 -----
20
21 SELECT id FROM users WHERE username = 'trump';
22
23
24
25
26 -----
27 -- Problem 3
28 -----
29
30 SELECT id FROM users WHERE username LIKE 'trump';
```

```

31
32
33
34
35 -----
36 -- Problem 4
37 -----
38
39 SELECT id FROM users WHERE username LIKE 'TRUMP';
40
41
42
43
44 -----
45 -- Problem 5
46 -----
47
48 SELECT id FROM users WHERE username LIKE 'a%';
49
50
51
52
53 -----
54 -- Problem 6
55 -----
56
57 SELECT id FROM users WHERE username LIKE '%a';
58
59
60
61
62 -----
63 -- Problem 7
64 -----
65
66 SELECT id FROM users WHERE username LIKE '%a%';
67
68
69
70
71 -----
72 -- Problem 8
73 -----
74
75 SELECT id FROM users WHERE age IS NULL;
76
77
78
79
80 -----
81 -- Problem 9
82 -----
83
84 SELECT id FROM users ORDER BY username DESC;
85
86
87
88
89 -----
90 -- Problem 10
91 -----
92
93 SELECT id FROM users ORDER BY age ASC;
94
95
96
97
98 -----

```

```

99  -- Problem 11
100 -----
101
102 SELECT id FROM users ORDER BY username ASC;
103
104
105
106
107 -----
108  -- Problem 12
109 -----
110
111 SELECT count(*) FROM messages;
112
113
114
115
116 -----
117  -- Problem 13
118 -----
119
120 SELECT count(*) FROM messages WHERE sender_id=4;
121
122
123
124
125
126 -----
127  -- Problem 14
128 -----
129
130 SELECT count(*) FROM messages WHERE sender_id < 4;
131
132
133
134
135
136 /*
137  * Problems 15-20 CHANGE the data. Reload quiz_practice_schema.sql before
138  * each one, so that an earlier DELETE or UPDATE does not affect the answers.
139  */
140
141 -----
142  -- Problem 15
143 -----
144
145 DELETE FROM messages;
146 SELECT count(*) FROM messages;
147
148
149
150
151 -----
152  -- Problem 16
153 -----
154
155 DELETE FROM messages WHERE sender_id=1;
156 SELECT count(*) FROM messages;
157
158
159
160
161 -----
162  -- Problem 17
163 -----
164
165
166 DELETE FROM messages WHERE message LIKE '%a%';

```

```

167 SELECT count (*) FROM messages;
168
169
170
171
172
173 -----
174 -- Problem 18
175 -----
176
177 DELETE FROM messages WHERE sender_id=3 OR sender_id=0;
178 SELECT count (*) FROM messages;
179
180
181
182
183 -----
184 -- Problem 19
185 -----
186
187 UPDATE users SET password='@realdonaldtrump';
188 SELECT count (*) FROM users WHERE password LIKE '@%';
189
190
191
192
193
194
195 -----
196 ---- Problem 20
197 -----
198
199 UPDATE users SET username='@realdonaldtrump' WHERE id=1;
200 SELECT count (*) FROM users WHERE username LIKE '@%';

```

SQL — Answer Key
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Problem 1

Answer:

```
1
```

Problem 2

Answer:

```
No Output
```

Problem 3

Answer:

```
1
```

Problem 4

Answer:

```
1
```

Problem 5

Answer:

```
5
6
```

Problem 6

Answer:

```
6
```

Problem 7

Answer:

```
5
6
3
4
```

Problem 8

Answer:

```
8
```

Problem 9

Answer:

```
1
7
8
4
3
2
6
5
```

Problem 10

Answer:

```
8
6
5
4
3
7
1
2
```

Problem 11

Answer:

```
5
6
2
3
4
8
7
1
```

Problem 12

Answer:

```
10
```

Problem 13

Answer:

```
1
```

Problem 14

Answer:

```
No Output
```

Problem 15

Answer:

0

Problem 16

Answer:

9

Problem 17

Answer:

1

Problem 18

Answer:

8

Problem 19

Answer:

1