Codefez Logic SQL Worksheet 1 Answers

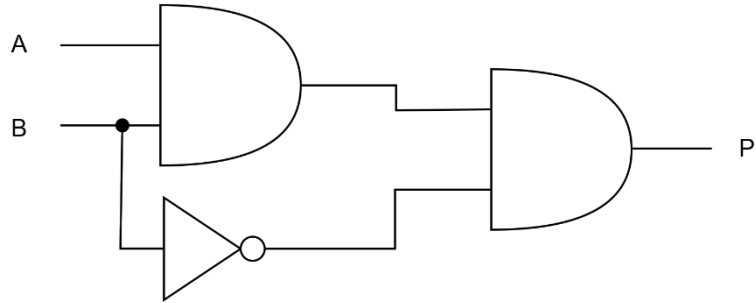| Q	Answer	Mark	Guidance
1	1 mark per correct point - Displays all field names - ...from the products table - ...if the price of the product is more than 1000	3	
2	SELECT * FROM products WHERE price > 1000 or price <300	1	
3	1 mark for - The AND operator will result in no results ... because products cannot both be <300 *AND* >1000	2	
4	2	1	
5	1 mark for correctly writing out query lines 1-3, 1 mark for correctly writing out the order by statement on line 4 SELECT * FROM products WHERE category = "smartphone" ORDER BY dis% DESC;	2	Accept line 4 as: ORDER BY discount DESC;
6	1 mark per correct point - It will return the number of products/records ...in the products table	2	
7	1 mark for each point: - First line must have UPDATE and the table name - Second line must include the SET command and the condition - Third line sets the condition of id UPDATE products SET price = *500* WHERE *id=2*;	3	

			D	E	Q
			0	1	1
			0	0	0
			0	1	1
			1	0	1
			0	1	1
			0	0	0
			0	1	1
			1	0	1

4 — 3 marks

1 mark for each correct column

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5 — 2 marks

Either answer is acceptable
- Q = (A & B) OR NOT C
- Q = NOT C OR (A AND B)

1 mark for
- NOT C
- Correct using OR

	6								4	

A	B	C	D	E	F	G	Q
0	0	0	0	0	0	1	1
0	0	0	1	0	0	1	1
0	0	1	0	0	0	1	1
0	0	1	1	0	1	0	0
0	1	0	0	0	0	1	1
0	1	0	1	0	0	1	1
0	1	1	0	0	0	1	1
0	1	1	1	0	1	0	0
1	0	0	0	0	0	1	1
1	0	0	1	0	0	1	1
1	0	1	0	0	0	1	1
1	0	1	1	0	1	0	0
1	1	0	0	1	0	1	1
1	1	0	1	1	0	1	1
1	1	1	0	1	0	1	1
1	1	1	1	1	1	0	1

1 mark for each correct column

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7 Either answer is acceptable — **3**

- Q = (A & B) OR NOT (C AND D)
- Q = NOT (C AND D) OR (A AND B)

1 mark for

- NOT C AND D
- A AND B
- Correct using OR

8		2	

1 mark for
- An AND Gate which takes as an input the result of A AND B
- … AND the result of NOT B

9						3	

A	B	A AND B	NOT B	P
0	0	0	1	0
0	1	0	0	0
1	0	0	1	0
1	1	1	0	0

1 mark for each correct column