

14. A takeaway restaurant is implementing an online ordering system and is using a relational database to store details about the dishes, customers and orders.

The restaurant can view order details. Customers are able to place and edit orders. The four tables used in the database are shown below.

Customer					
custID	forename	surname	address	telephone	postcode
41	Henry	Taylor	95 Whitehouse St	01224 931167	AB25 1SL
42	Anna	Smith	84 Fraser Ave	01224 474845	AB16 5LL
43	Jane	Robin	80 Maxwell St	01224 325715	AB12 5XN
...	...	...	...	...	...

CustOrder		
orderID	custID	orderDate
ORD1	41	15/05/2023
ORD2	42	15/05/2023
ORD3	41	16/05/2023
...	...	...

OrderItem		
orderID	dishID	quantity
ORD1	DISH01	2
ORD1	DISH05	3
ORD1	DISH04	3
ORD1	DISH06	1
ORD2	DISH02	2
ORD2	DISH04	2
ORD3	DISH03	7
ORD3	DISH04	6
...	...	...

Dish			
dishID	description	course	price
DISH01	Pepper and egg sushi	Starter	6.99
DISH02	Poppy and rosemary salad	Main	4.99
DISH03	Ice cream	Dessert	3.99
DISH04	Cappuccino	Drink	3.99
DISH05	Chicken fajita	Main	8.99
DISH06	One pan chicken	Main	9.99
DISH07	Chilli chicken wings	Starter	4.99
...	...	...	...



14. (continued)

- (a) Design a query to display the number of orders that the customer with custID 41 made in May 2023.

2

Field(s) and Calculation(s)	
Tables(s)	
Search Criteria	
Grouping	
Sort Order	

- (b) The takeaway restaurant would like to offer a discount for all customers who order a main dish.

Complete the design of a query to display the full name and telephone number of every customer who has ordered a main dish.

2

Field(s) and Calculation(s)	
Tables(s)	
Search Criteria	course = 'Main'
Grouping	
Sort Order	

[Turn over



14. (continued)

- (c) The manager wants to increase the price of main dishes that contain chicken by £2.00.

Write the SQL statement that would implement this.

3

- (d) The restaurant wants a query to calculate the total cost of each order. The expected output is shown below.

orderID	orderDate	Total Value
ORD1	15/05/2023	62.91
ORD2	15/05/2023	17.96
ORD3	16/05/2023	51.87

The following SQL statement is executed but the actual output does not match the expected output.

```
SELECT CustOrder.orderID, orderDate, (price * quantity) AS
'Total Value'
FROM CustOrder, OrderItem, Dish
WHERE CustOrder.orderID = OrderItem.orderID
ORDER BY orderID ASC;
```

Identify the three errors in the above SQL statement.

3

Error 1 \_\_\_\_\_

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Error 2 \_\_\_\_\_

\_\_\_\_\_

Error 3 \_\_\_\_\_

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