DAD Challenge – Access & Normalisation

Time

You have 2 hours to complete the following tasks

Submission

Download the document DAD_Challenge_Submission_Template.docx from blackboard.

Where instructed below place a screen capture of your work into this document.

When finished, print the document to .pdf, and upload it to blackboard.

Instructions

1. Download the file DAD_Challenge_Data_Superstore.xls from blackboard.

2. Create an MS Access Database & import the excel data into the database.

3. Create the correct relationships between tables in MS Access.

- Screenshot the Relationship Manager showing these relationships and paste the screenshot into your submission.

4. Create a Query named Challenge1 that shows the Product ID, Product Name and Price of all products with a price greater or equal to $8000

- Screenshot the Query Design grid AND the Result Set from the query and paste the screenshots into your submission.

5. Create a Query named Challenge2 which shows the Customer ID, Customer Name, City and State for all Customers with either a first name of Alan or a last name of Smith

- Screenshot the Query Design grid AND the Result Set from the query and paste the screenshots into your submission.

6. Create a query named Challenge3 which shows the SegmentName and the number of customers from a particular region in that segment.
The region to be displayed must be entered via a parameter.

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- Screenshot the Query Design grid AND the Result Set from the query and paste the screenshots into your submission.

7. Create a query named Challenge4 which shows the CustomerID, ProductID, Orderdate, ShippingMode and a calculated column labelled DaysToShip which shows the number of (whole) days between the ship date and the order date.

- Screenshot the Query Design grid AND the Result Set from the query and paste the screenshots into your submission.

8. Create a query named Challenge5 which uses the query Challenge4 as its source, and shows the the average DaysToShip grouped by Shipping Mode.

- Screenshot the Query Design grid AND the Result Set from the query and paste the screenshots into your submission.

9. Add a column to the Customer table called SalesYTD with a currency datatype. Create an Update query named Challenge6 that sets SalesYTD to 0 for the customer whose customer ID is entered via a parameter. Run the Query for customer TS-21430. Use filters the show only the TS-21430 row of the Customer Table

- Screenshot the TS-21430 row of the Customer Table (including the column headings) and the Query Design grid and paste the screenshots into you submission.

10. Create a Form for Adding New Customers to the Database, ensure that your student ID is displayed at the top of the form.

- Screenshot the Form and paste the screenshot into you submission.

11. Create a Report displaying product details of products with a price >=$8000. Ensure that your student ID and an image of your choice are displayed on the report.

- Screenshot the Report and paste the screenshot into you submission.

12. Normalise the data in the file named 'normalisation_data.xlsx' to 1NF.

- Screen shot the normalised data and paste the screenshot into you submission.