ASSIGNMENT 3

Nadim Uddin 14100462

Perform queries using multiple tables and multiple criteria (P5)

Include an advanced feature in a database design (P6)

Test a relationship database (P7)

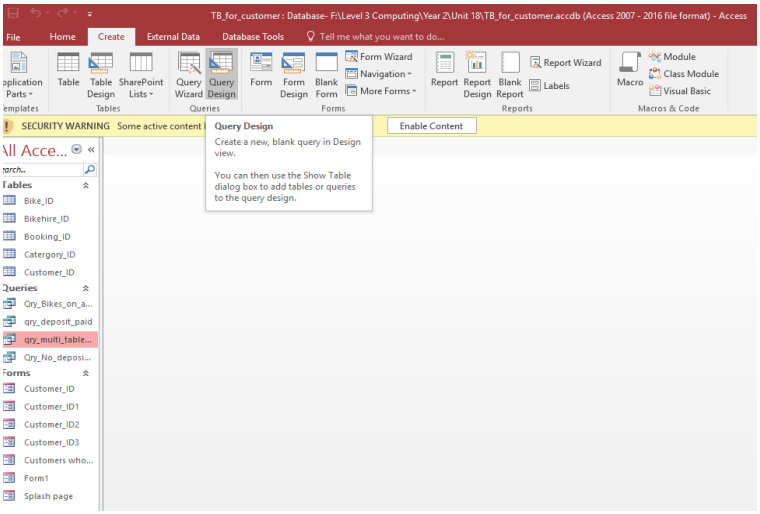
Implement an automated function (M4)

Evaluate a database against the specified user need (D2)

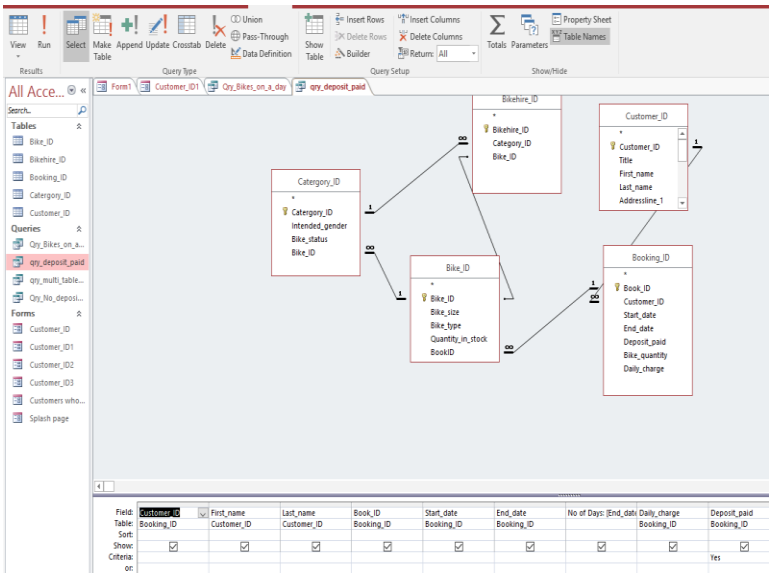
Perform queries using multiple tables and multiple criteria (P5)

Introduction: In this criteria I will be showing which customers have paid their deposits and also show a list of bikes including category that are hired in a certain date using queries.

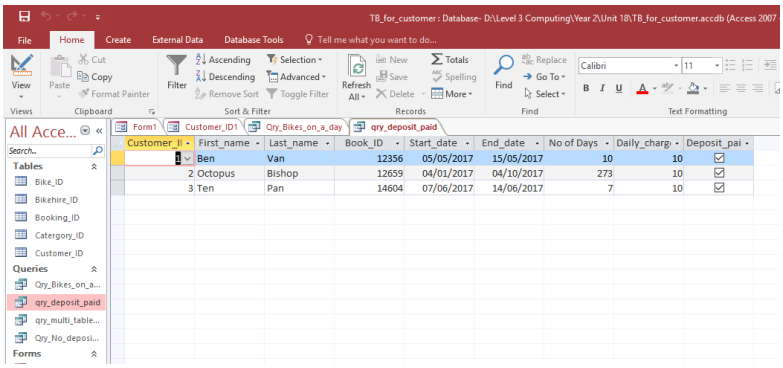
Deposits



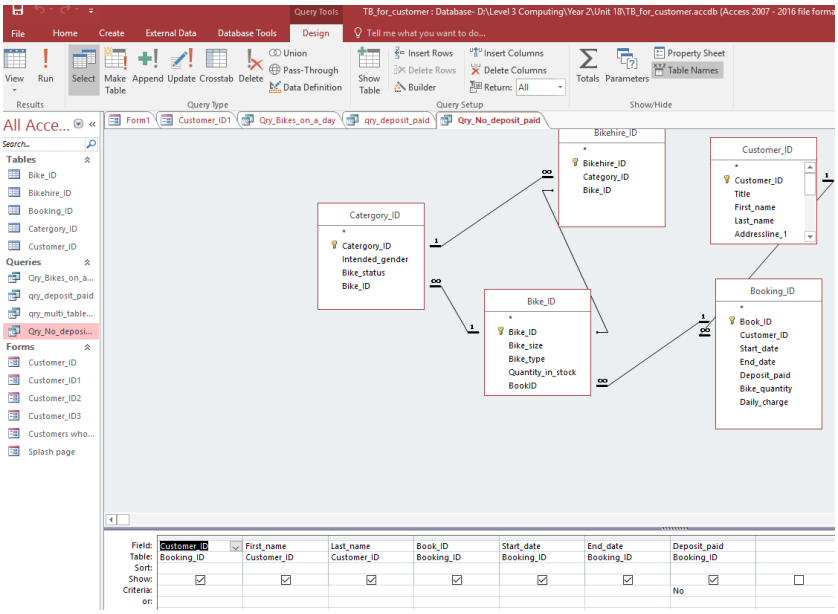
To create a query and go to the create tab and click on query design.



Here I included all my database tables. My query will include everything shown on the fields including any criteria's made.

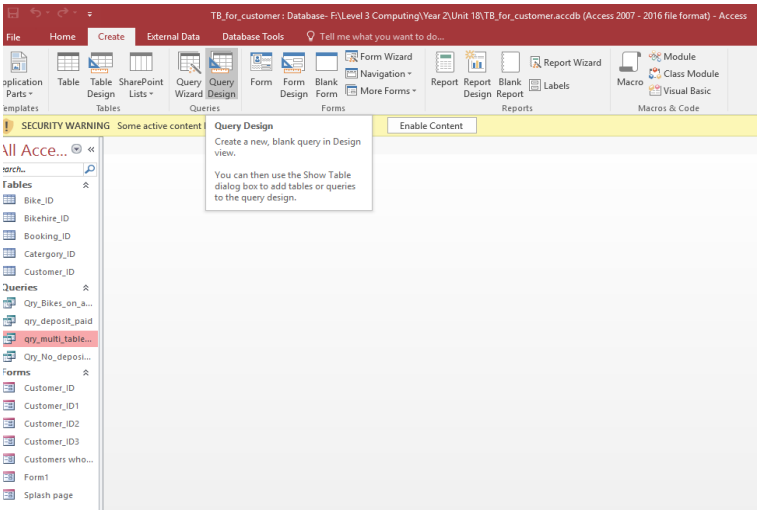


This shows that I have displayed who and who hasn't paid their deposit on my database with the query.

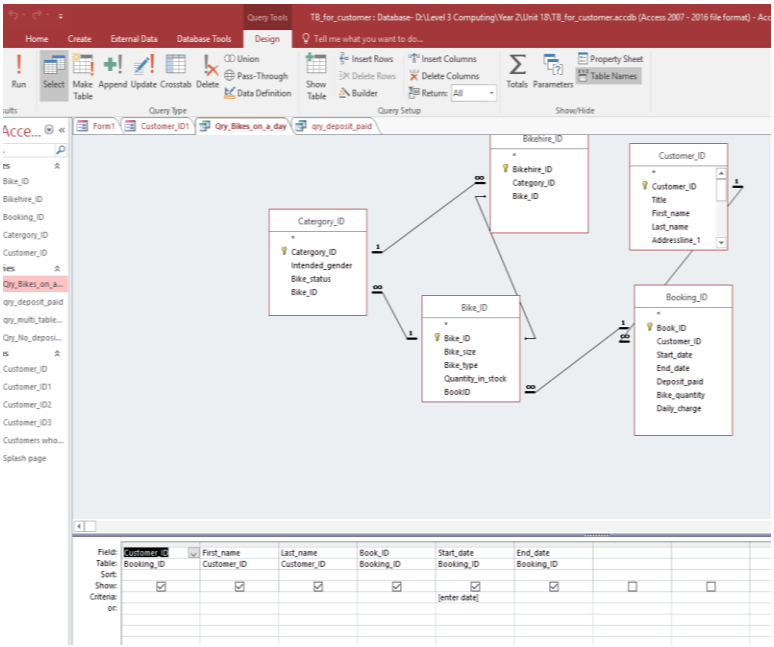


I've also created a query that tells you who hasn't made a deposit.

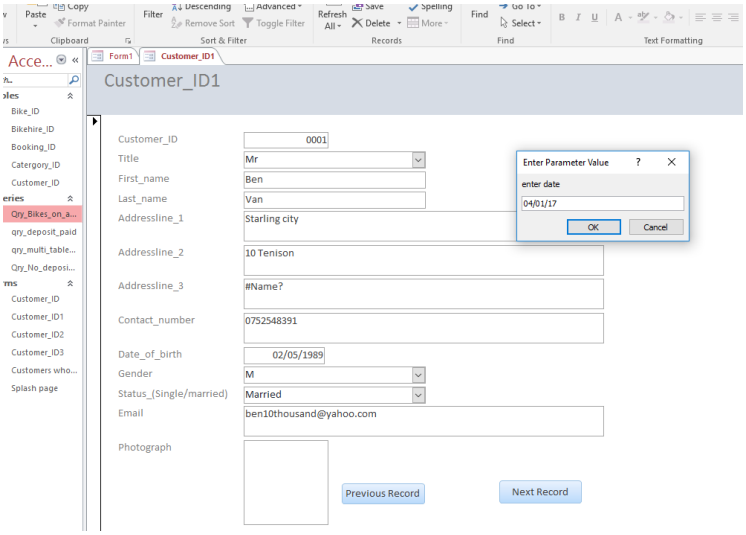
List of bikes that are hired on a certain date



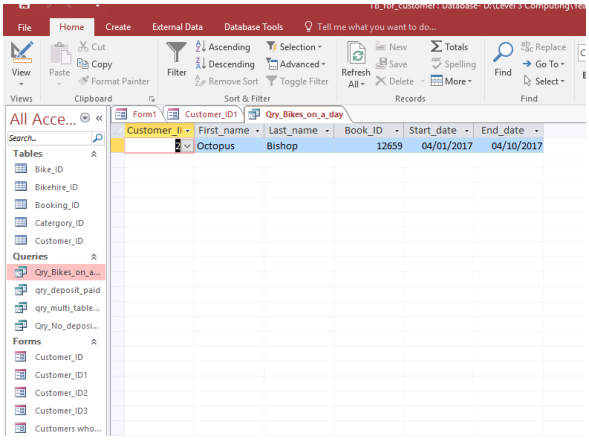
To create a query and go to the create tab and click on query design.



Here I inputted all my database tables into my query design. Next I added the following fields and the criteria. In one of the criteria I included “[enter date]”.



Since I inputted “[enter date]” as a criteria, every time you click on your query on the side it will ask you to input a date.



This shows a list of bikes hired on a certain date.

Multi table query

Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
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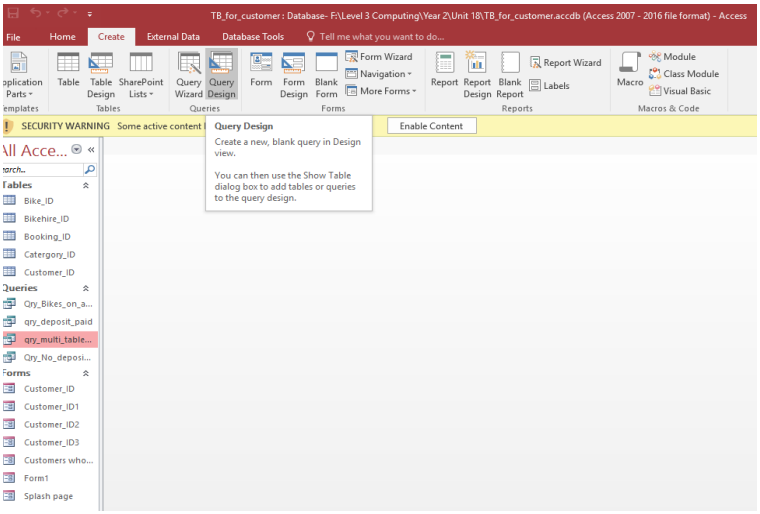
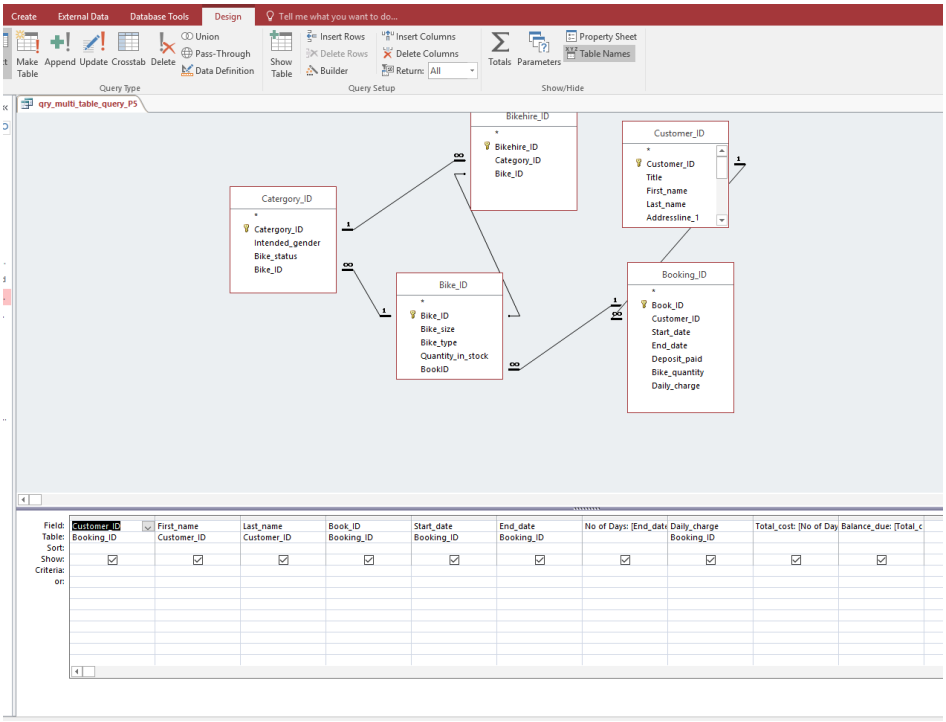
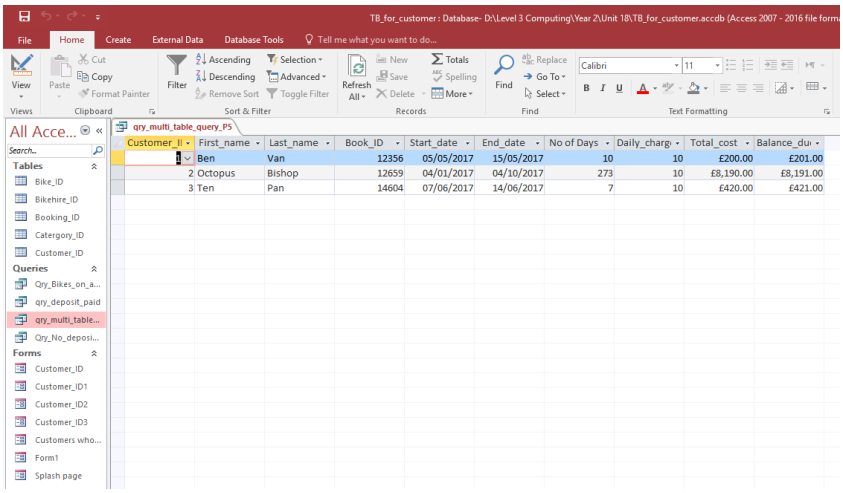


To create a query and go to the create tab and click on query design.



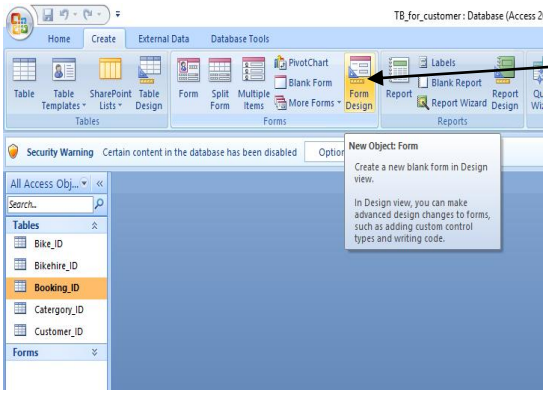
On the query design I include all my database tables and inputted the followings fields.



This is the information shown from the query design.

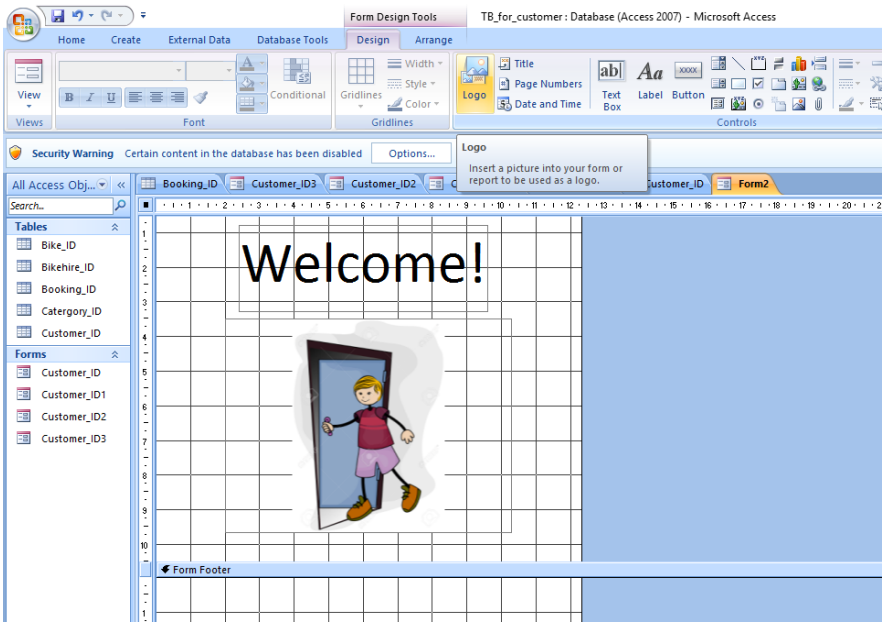
Include an advanced feature in a database design (P6)

Introduction: In this criteria I will be implementing an advanced feature onto my access document called splash page.

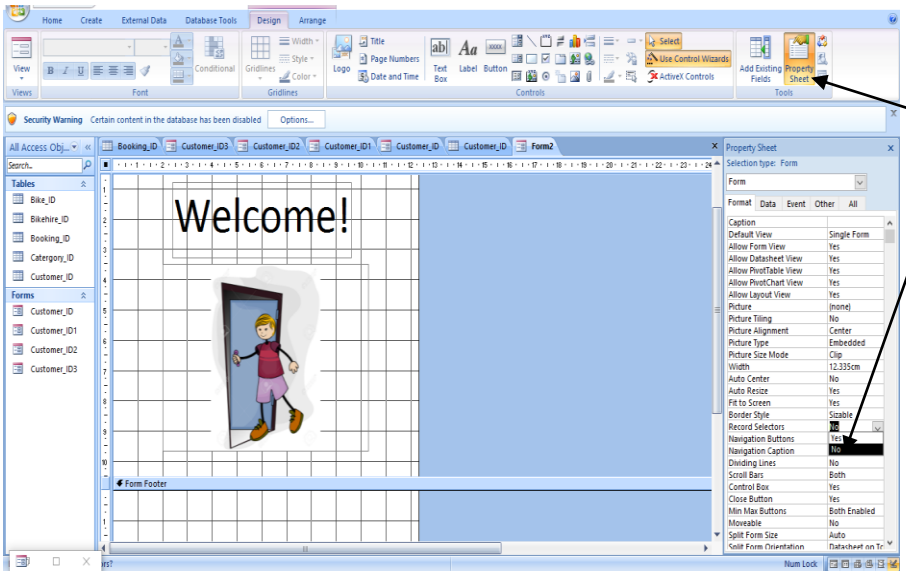


First go to the create tab and then click on form design.

Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
Number: 14100462

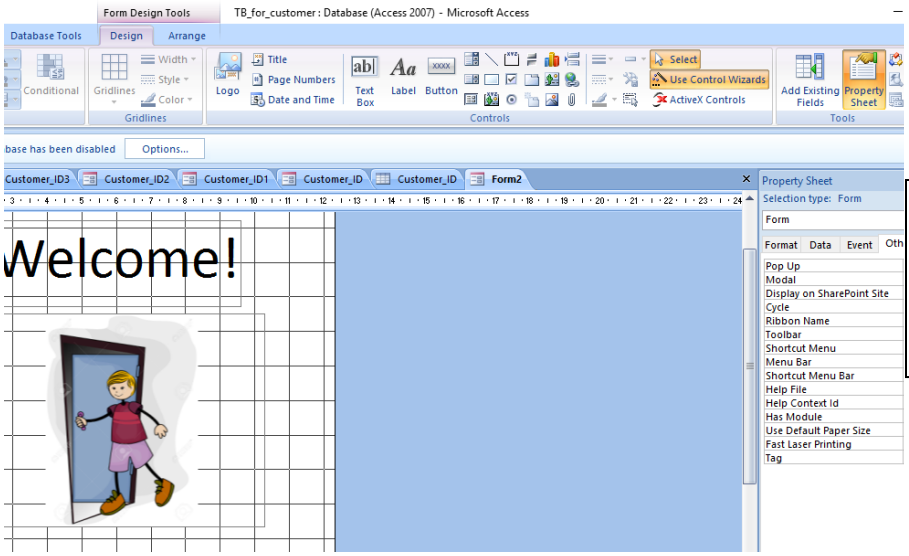


To input an image once in form design, go to the design tab and click on logo. You should then be able to browse your system for an image.

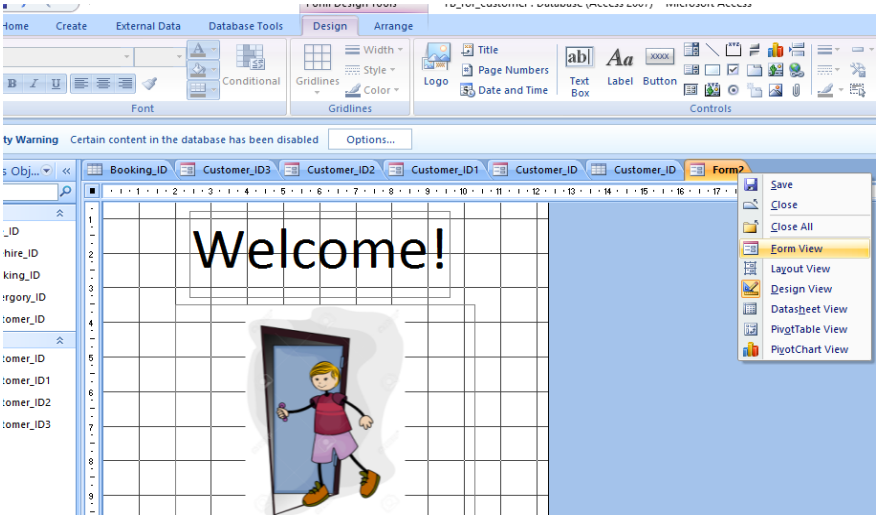


Next you adjust the form design by clicking on property sheet. Here I'm writing No on record selectors.

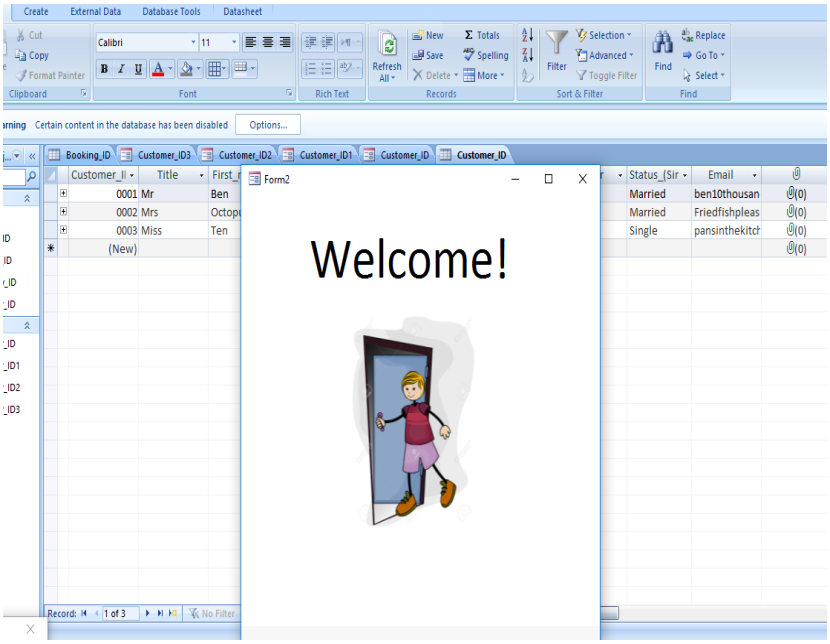
Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
Number: 14100462



Next on the other tab in the property sheet and wrote yes on popup so every time access is opened the form will open.



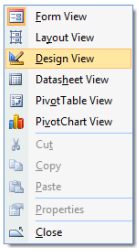
Next I right clicked on the form tab and clicked on form view.



Now you can see visibly how your form appears.

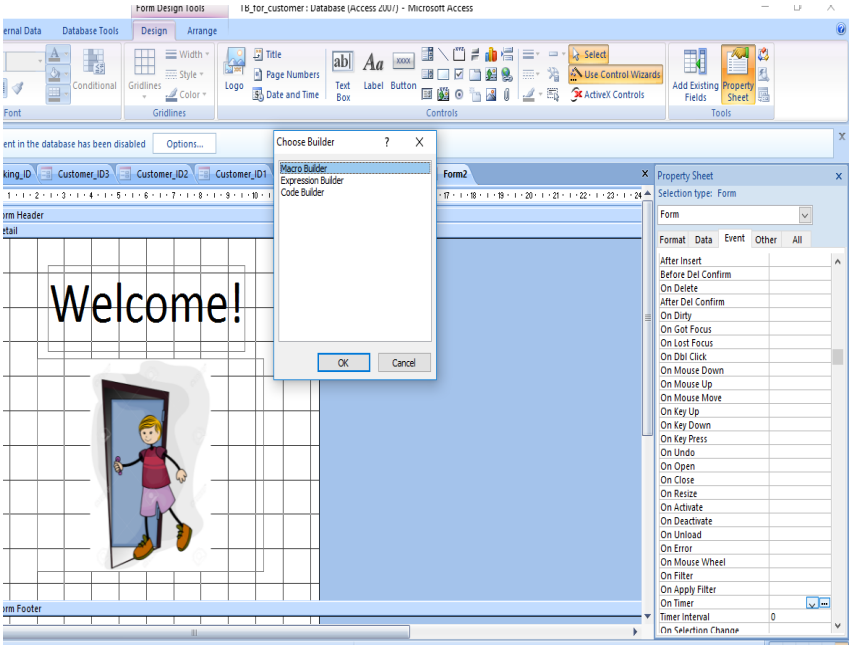
Form2

Welcome!

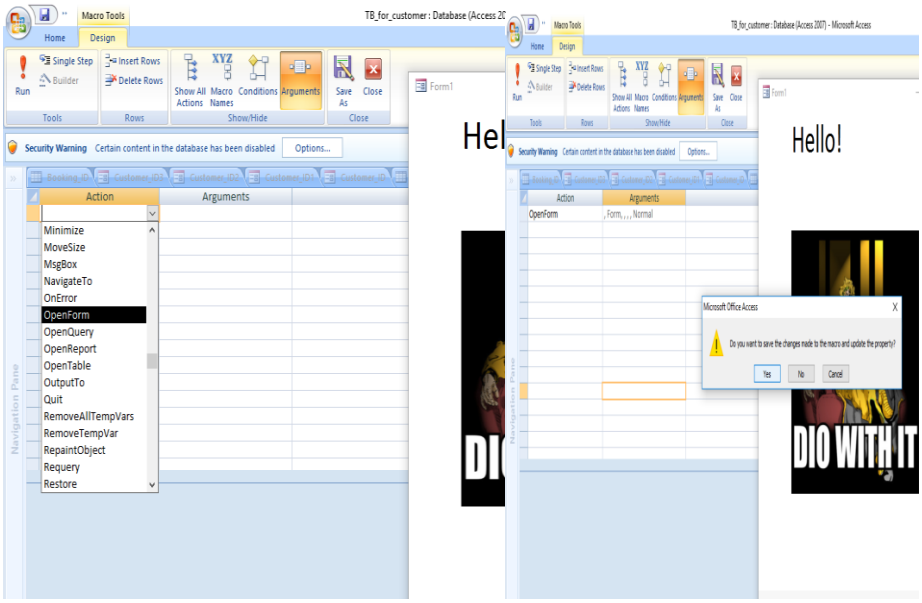


If you right click on the form you can return to design view.

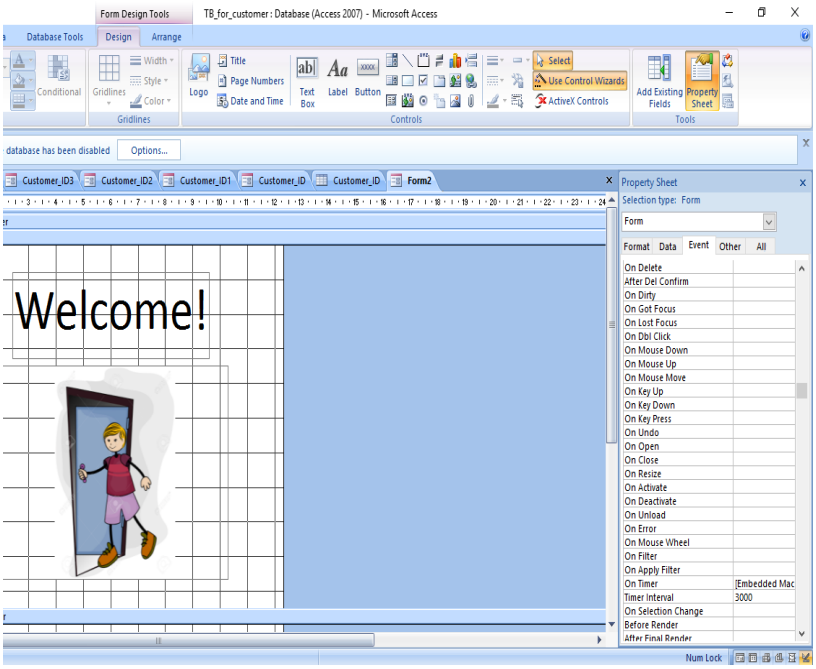
Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
Number: 14100462



Next I went to the event tab in the property sheet and clicked on the dots which is in the on timer column.



Here I'm able to apply a macro. I included the action open form.

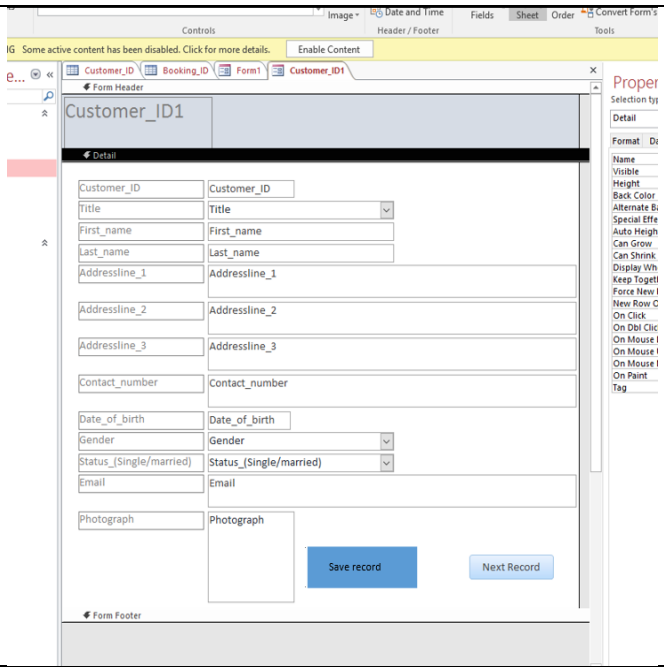
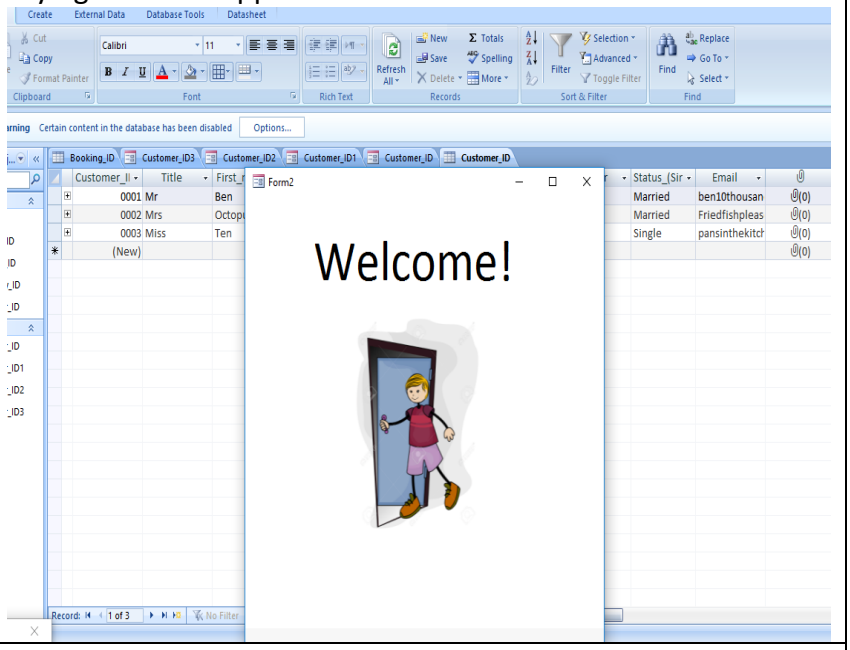


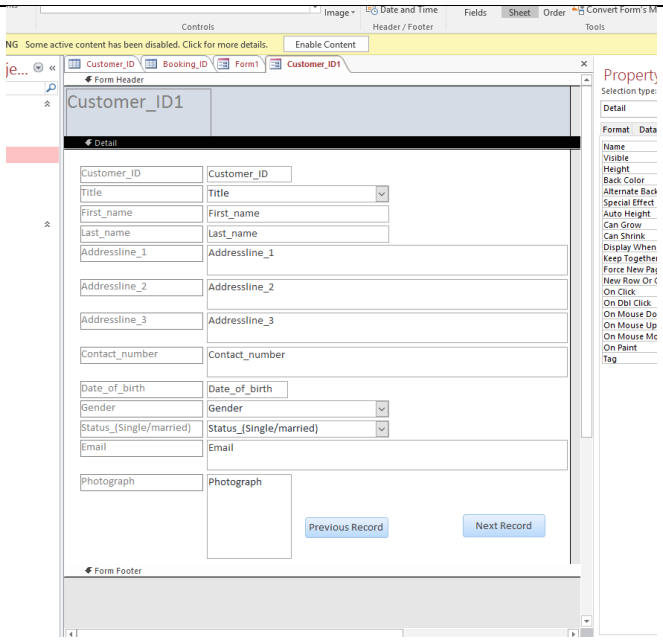
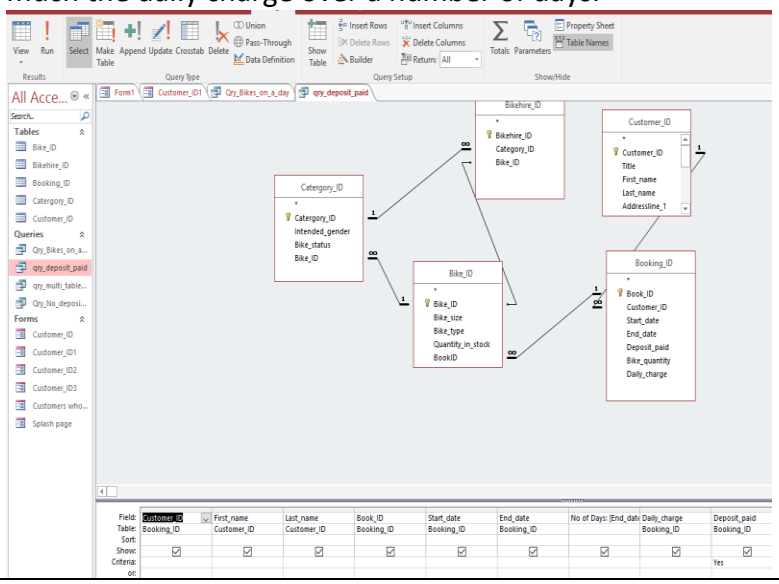
In the event tab in the timer interval column I added 3000 milliseconds (3 seconds) to the form on how quick it appears once access opens.

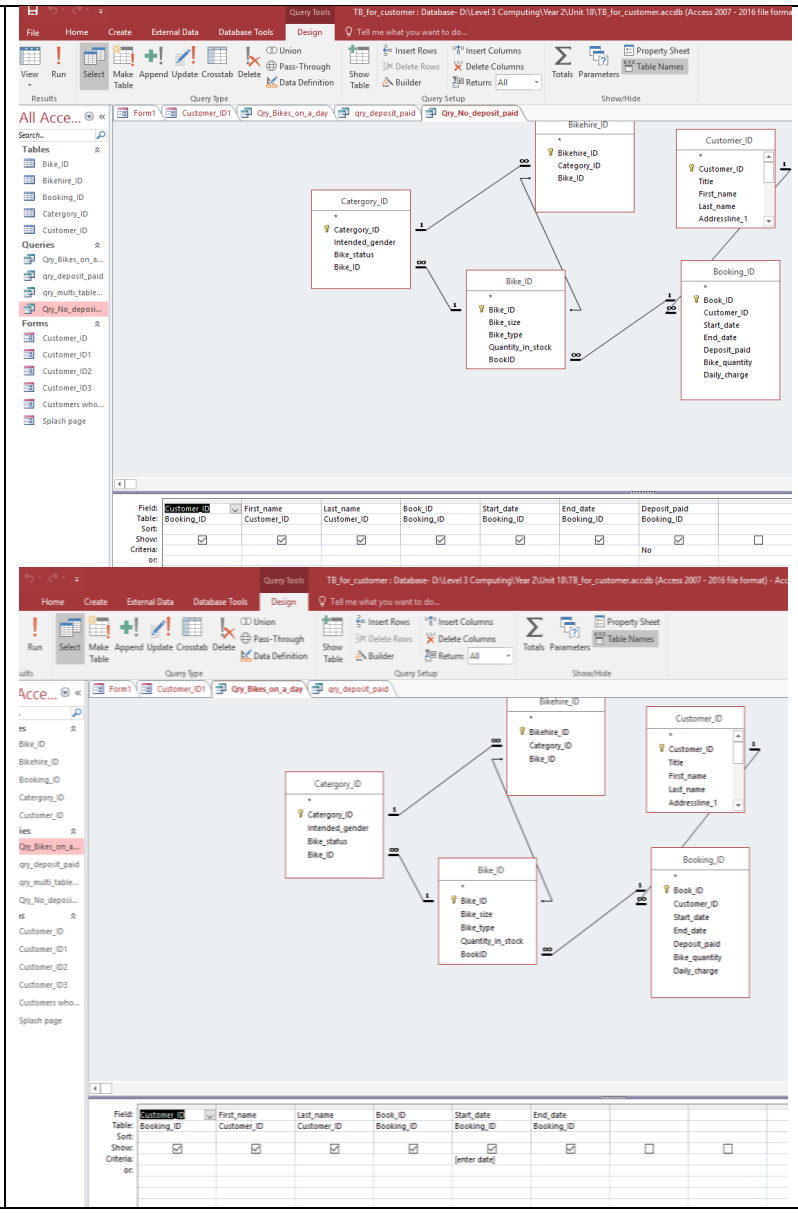
Test a relational data base (P7) (Test date type, macro, test queries, test results, bug results)

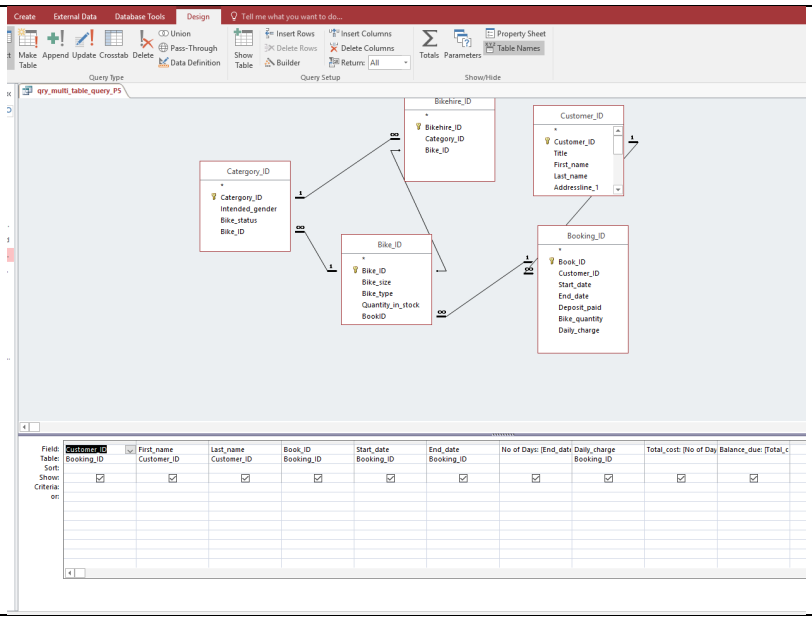
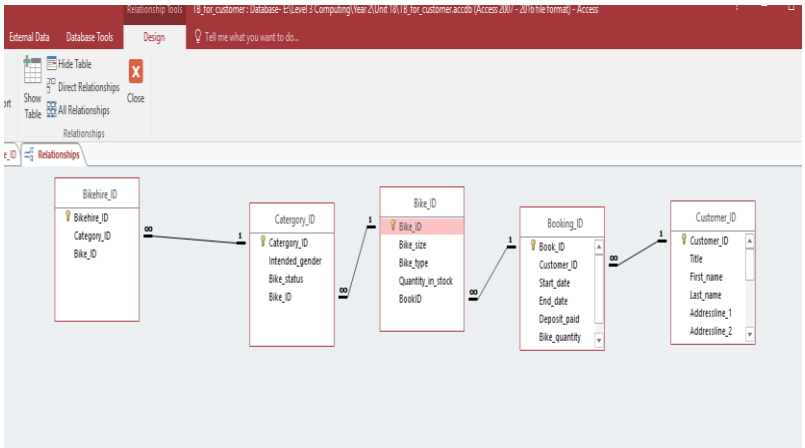
Introduction: In this word document I will be testing out areas of my database to show that it is functional and meets user needs.

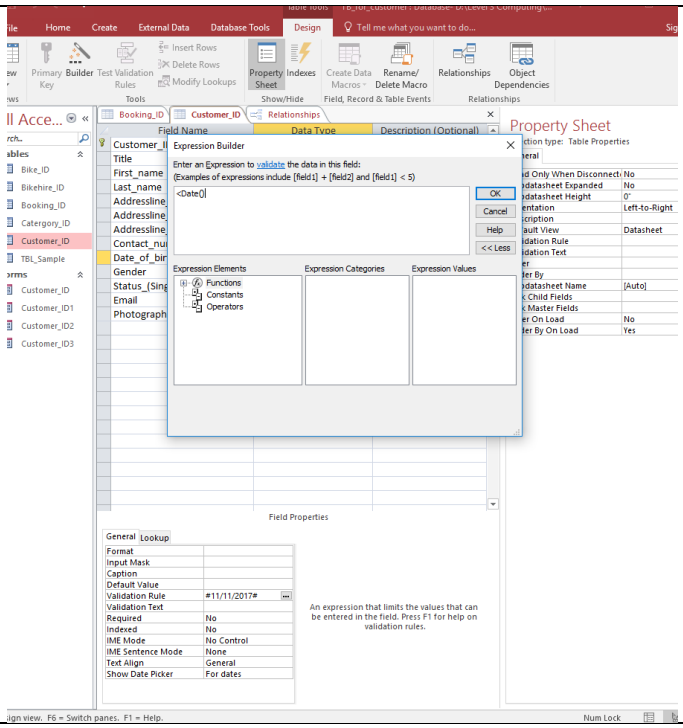
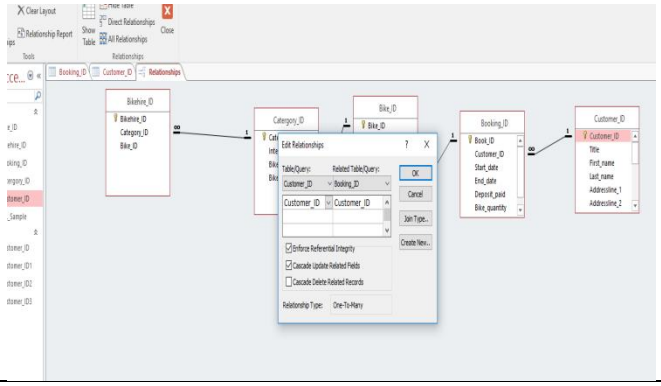
Test plan	Expectation	Final outcome
Including forms that include a save button	I will include a save feature onto my forms.	This screenshots displays that you can save the form after making changes to it.

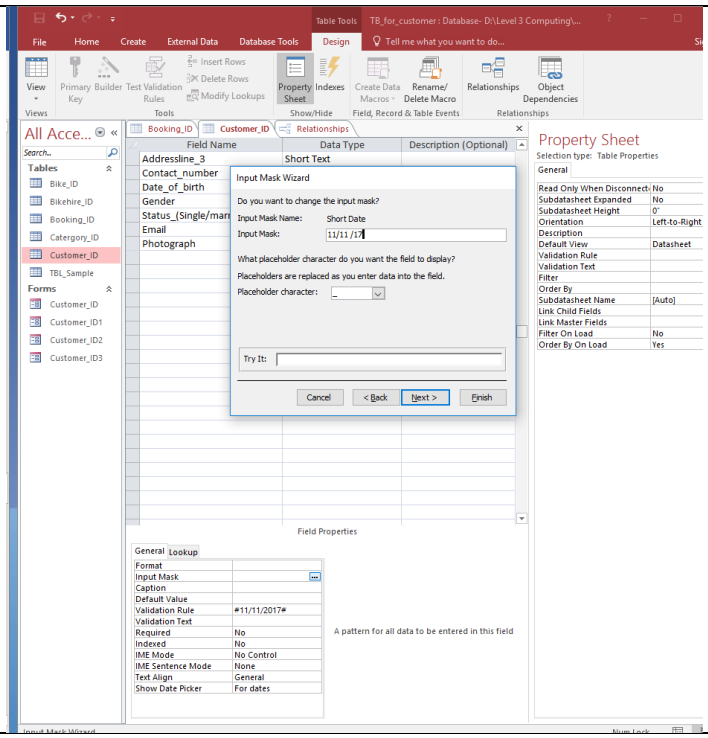
		
Splash page	In my database design I will be inputted a splash page which will include a timer on when it will appear.	When the database opens on Microsoft access this image saying welcome appears after 5 seconds 
Navigation buttons	In the database there should be buttons allowing you to navigate through different	Here I have created forms with buttons that allow you to navigate between different forms using the previous record button and the next record.

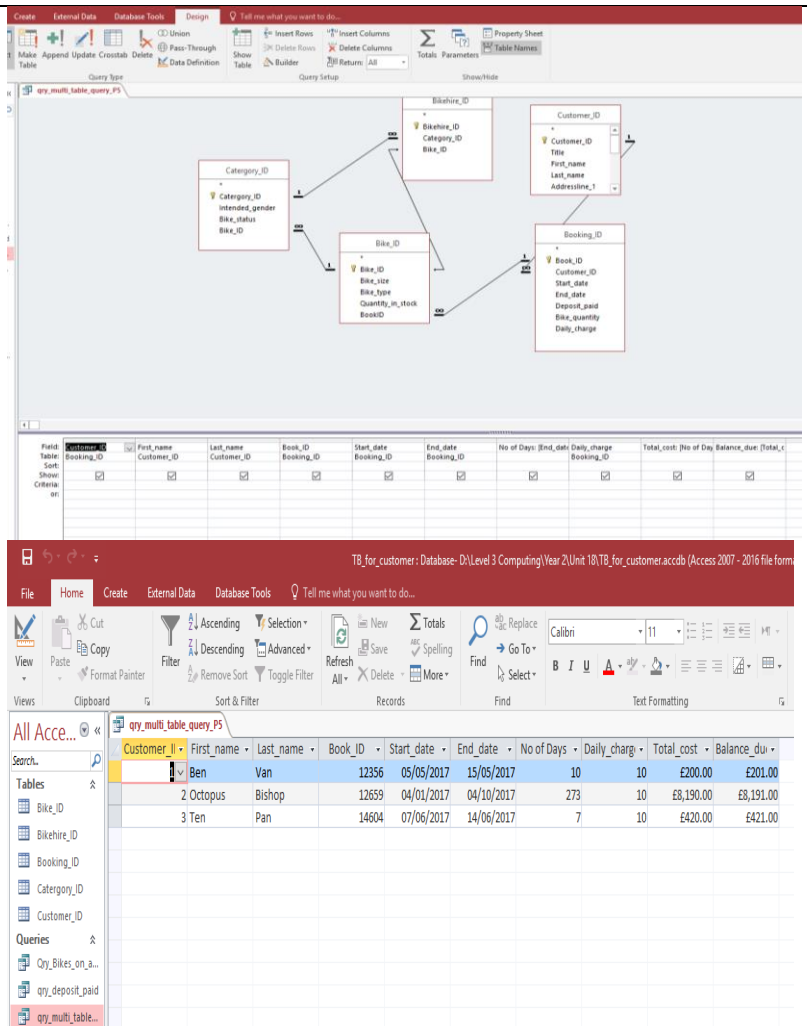
	queries.	
Queries	There will be queries allowing quick accessibility to access customer details are essential	For the queries that have been created I have all fields in the table showing and changes can be made whilst it is displayed. The query I have created include who have paid their deposit and who hasn't, list of bikes hired on a certain date and how much the daily charge over a number of days. 

		
Relationships	Have all data from each table connected to make it a relational database.	The relationship that has been created works when viewed in a datasheet view. This also allows primary keys and foreign keys to be linked. 
Validation rules		Here I included a validation rule to make sure there isn't any invalid data inputted.

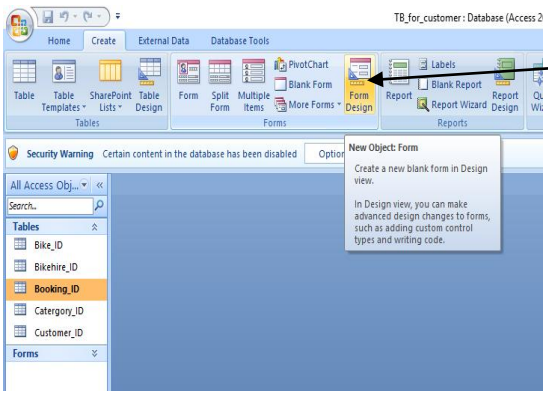
		
Data redundancy	In my access document I will be cascading my relationships.	Here I've shown that I have done data redundancy on my relationships in access. 
Input mask	With the input mask I will be implementing dates for minimum and maximum time period.	Here I have implemented an input mask onto my database which now controls the input of the date that is implemented onto the database.

		
Drop down menu for customer gender	Include a drop down menu which allows you to quickly choose male or female when inputting data.	This shows that are I inputted a drop down menu which allows you to input the gender of the customer.
Start date before the end date	I will be including start date and end date on a query.	These screenshots show start date and end date displayed on a query with additional information such as balance, number of days and daily charge.

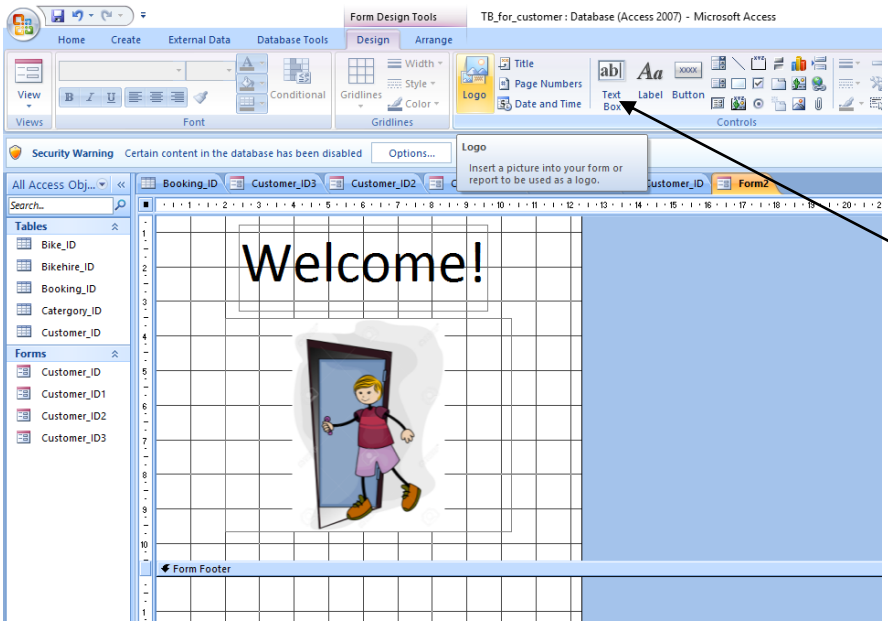


Implement an automated function (M4)

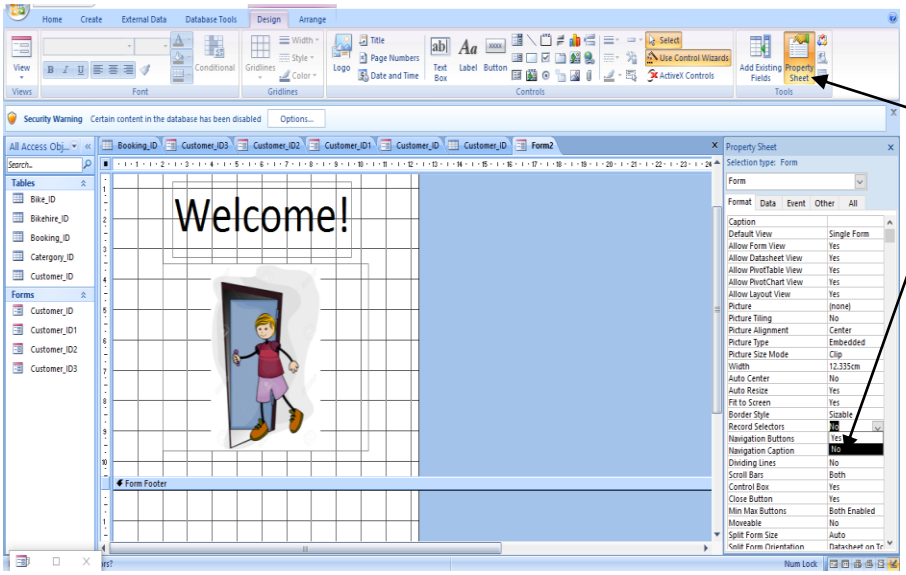
Introduction: In this criteria I will be implementing an automated function. Here I'm going to demonstrate a splash page.



First go to the create tab and then click on form design.



To input an image once in form design, go to the design tab and click on logo. You should then be able to browse your system for an image. You can also input text by clicking on the text box.



Next you adjust the form design by clicking on property sheet. Here I'm writing No on record selectors.

Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
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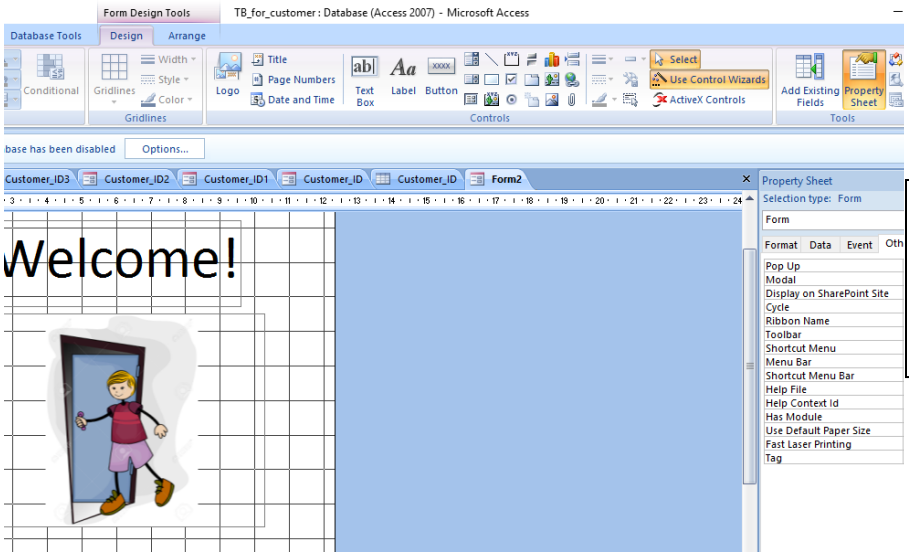
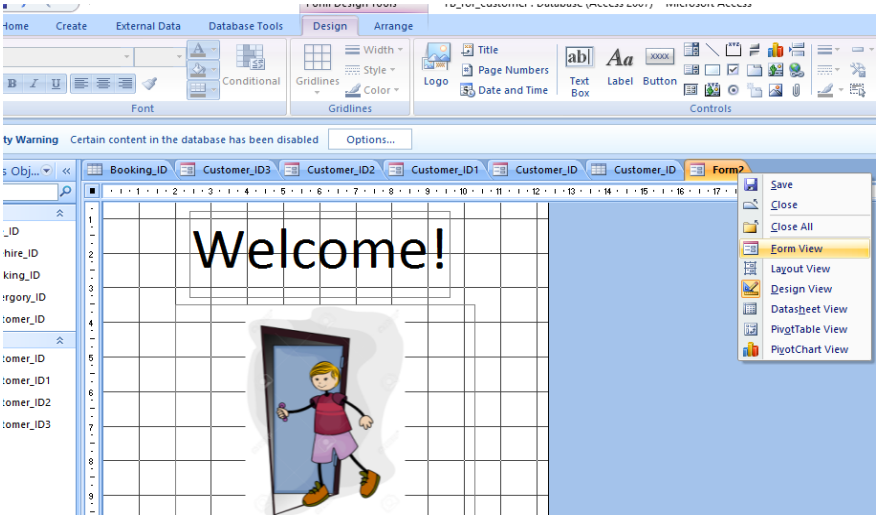
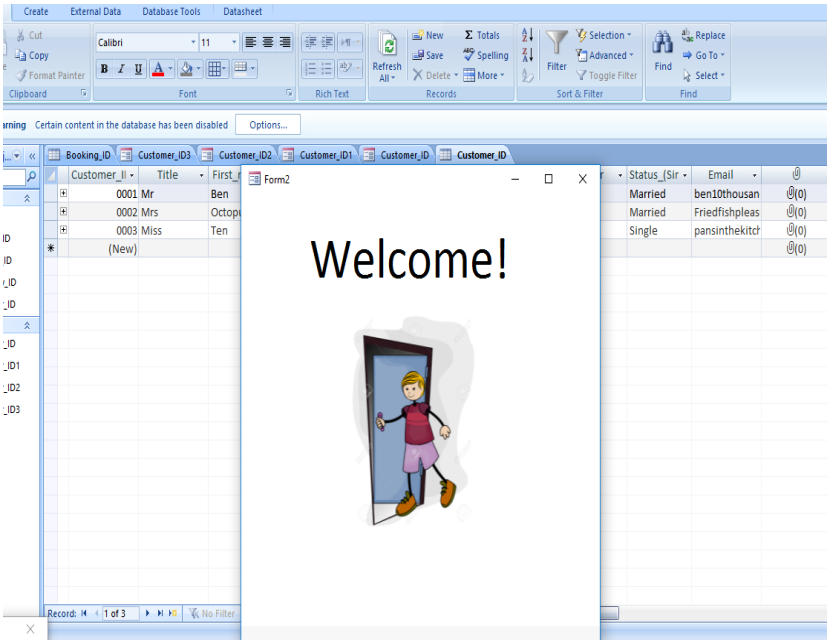


Next on the other tab in the property sheet and wrote yes on popup so every time access is opened the form will open.



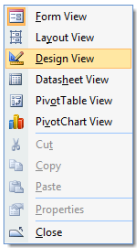
Next I right clicked on the form tab and clicked on form view.



Now you can see visibly how your form appears.

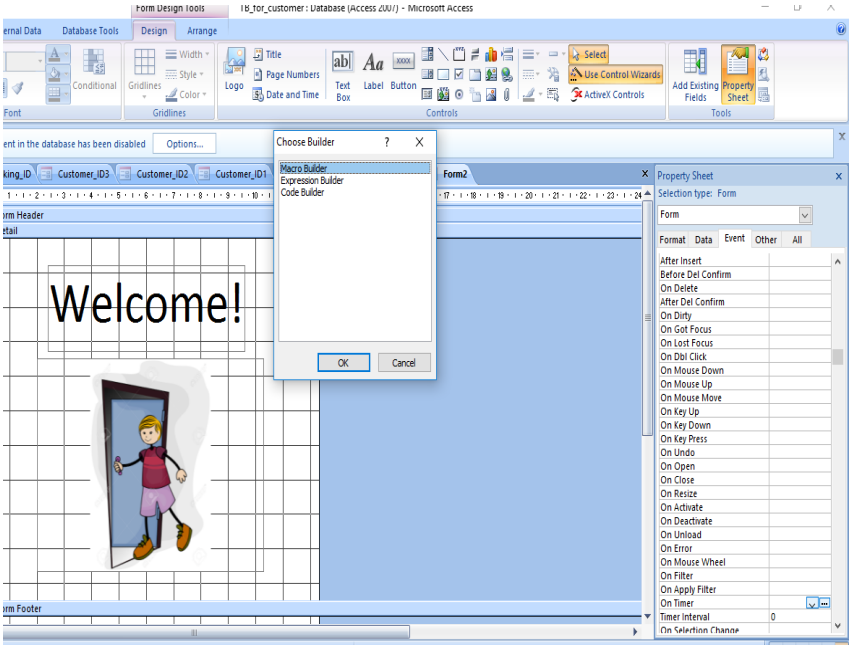
Form2

Welcome!

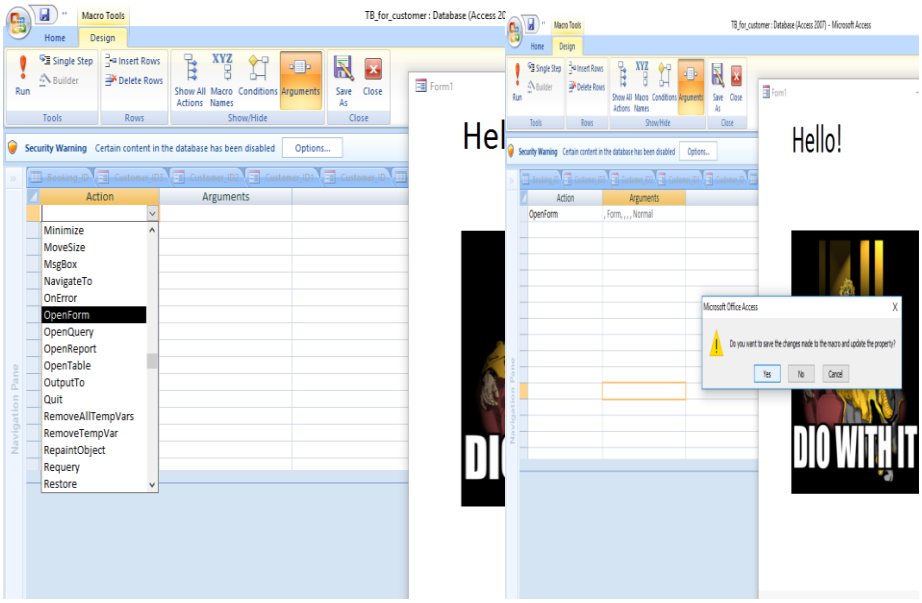


If you right click on the form you can return to design view.

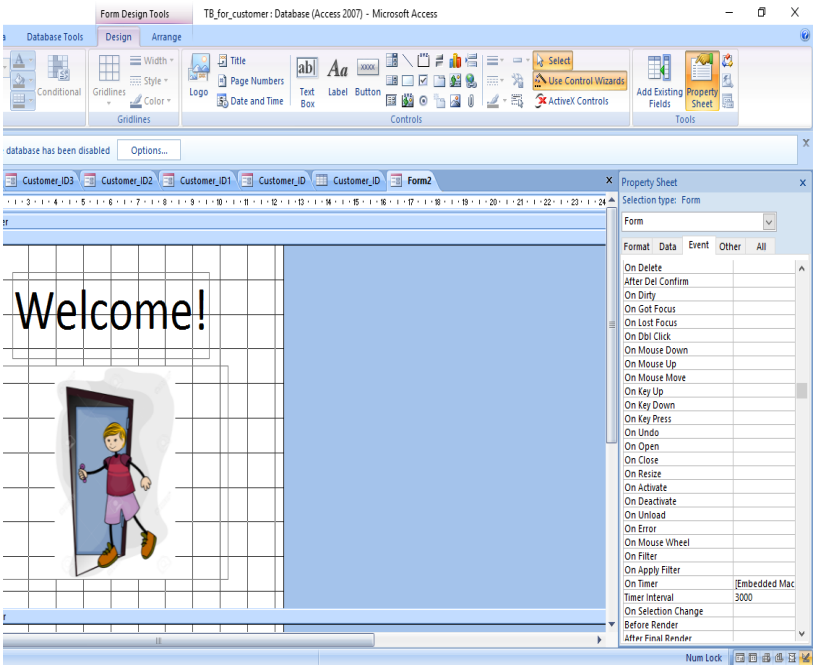
Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
Number: 14100462



Next I went to the event tab in the property sheet and clicked on the dots which is in the on timer column.



Here I'm able to apply a macro. I included the action open form.



In the event tab in the timer interval column I added 3000 milliseconds (3 seconds) to the form on how quick it appears once access opens.

Evaluate a database against the specified user need (D2)

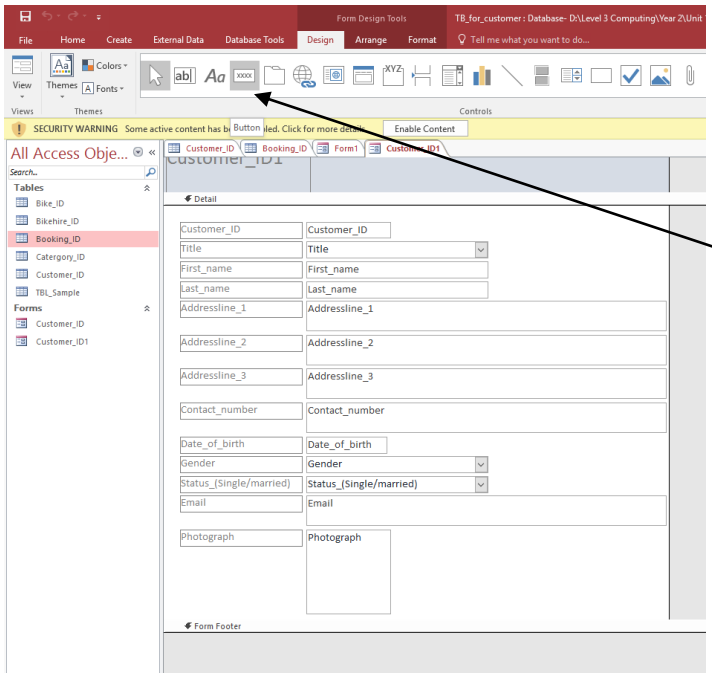
Introduction: In this area of the document I will be outlining how the systems meets the original user requirements and I will also be commenting on the strengths and weakness of my database.

Evaluation (What it does and what It's about)

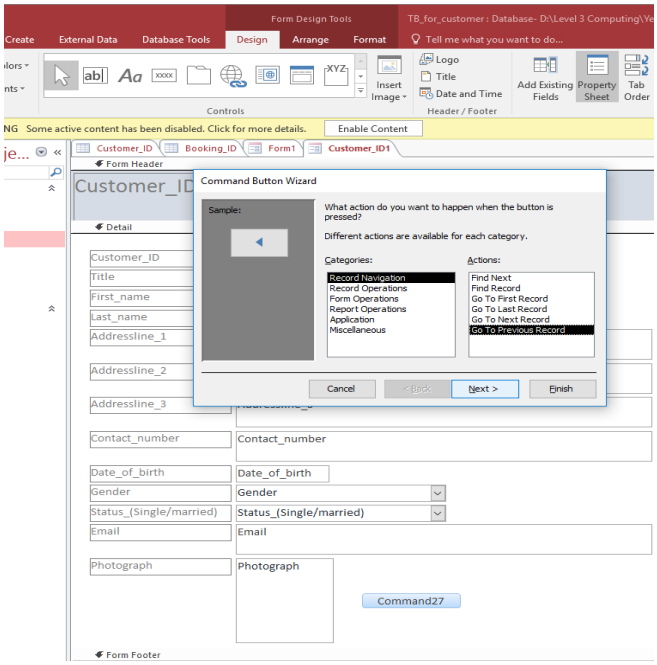
In Microsoft access I have created a database based on user requirements. My database is about a list of bikes that are hired. The essential information that is included in the database includes who has paid their deposit, balance paid, customers details including phone number and email address.

Forms / Buttons and queries

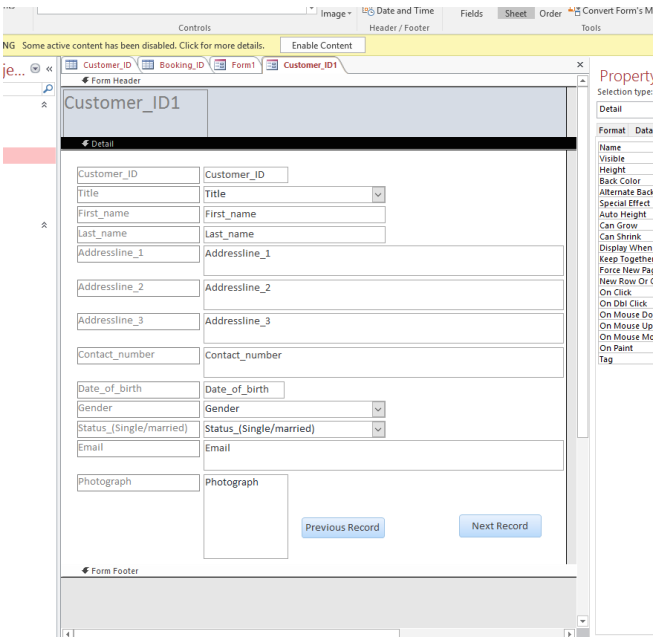
Forms created on my database allows inputting information to be much quicker and efficient as it allows you to input information in a more stylized and friendly way and it allows you to switch through records or modify areas of the form such as inputting an image. I also included queries onto my database allowing you to see who has made a deposit, list of bikes hired on a certain date and also the amount of money deposited from the amount of days hired.



To input visual prompts, open your data in a form and go to the design tab. Next click on the rectangle which includes a group of x.



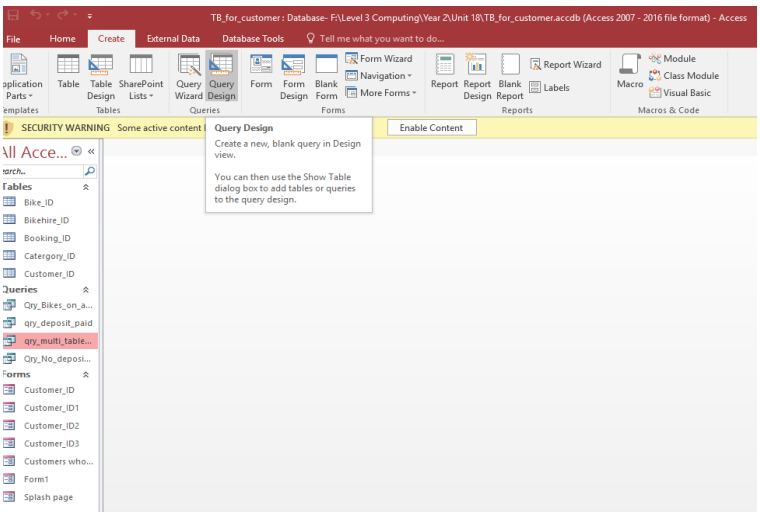
After you click on the rectangle shown on the above screenshot, a command button wizard should appear allowing you to create your buttons.



Here I've shown that I have created navigation buttons which allow me to go the previous or the next record.

Deposits

In my database I have clearly shown who has and who hasn't paid their deposit using queries.

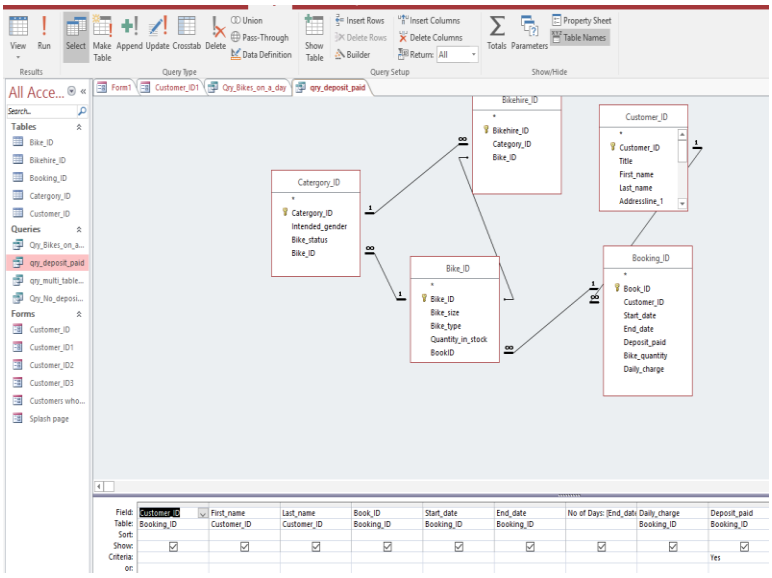


To create a query and go to the create tab and click on query design.

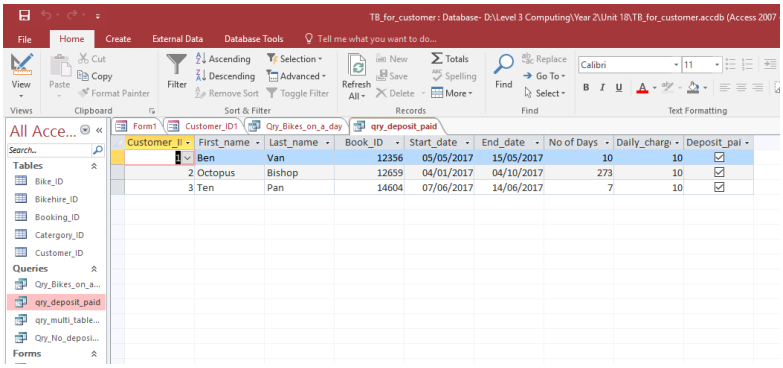
Nadim Uddin
Number: 14100462

Unit 18: P5 P6 P7 M4 D2

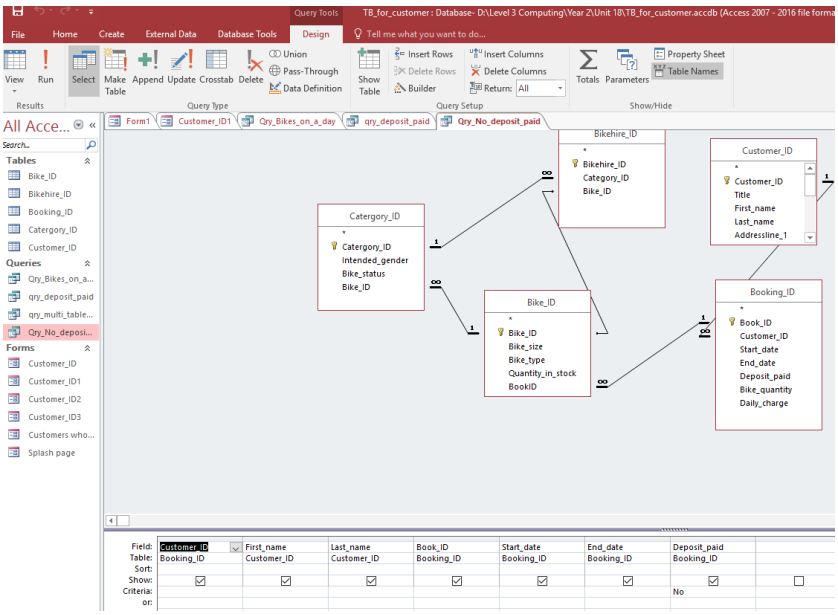
ID



Here I included all my database tables. My query will include everything shown on the fields including any criteria's made.



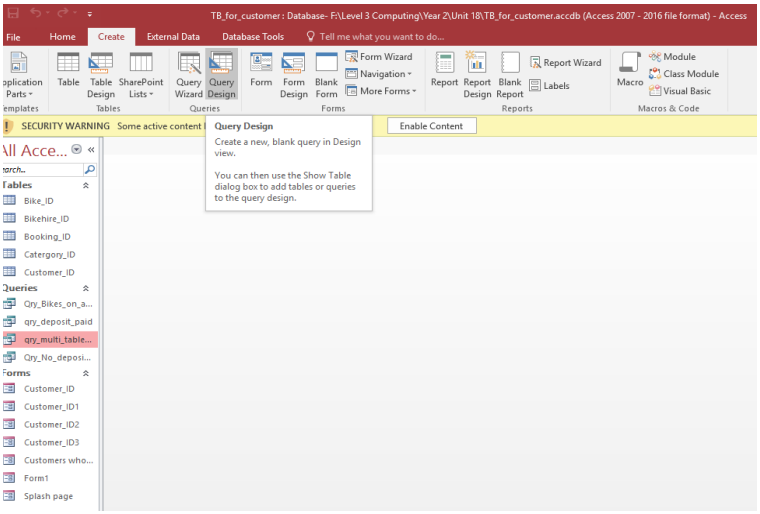
This shows that I have displayed who and who hasn't paid their deposit on my database with the query.



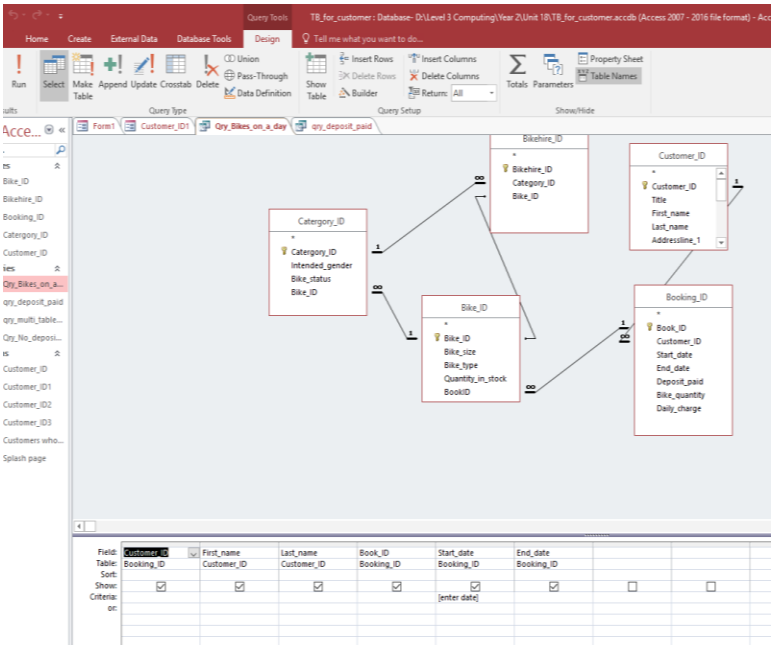
I've also created a query that tells you who hasn't made a deposit.

List of bikes that are hired on a certain date

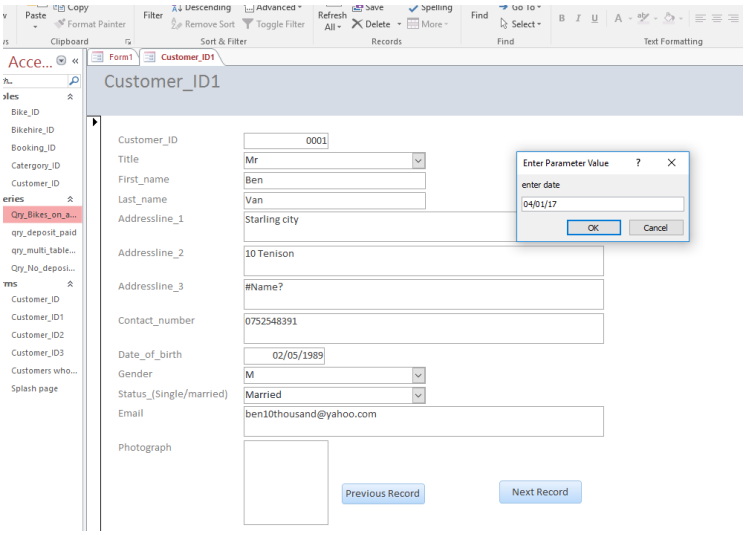
Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
Number: 14100462



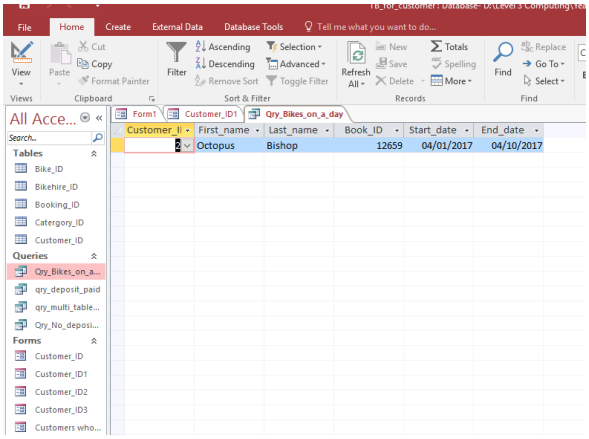
To create a query and go to the create tab and click on query design.



Here I inputted all my database tables into my query design. Next I added the following fields and the criteria. In one of the criteria I included “[enter date]”.

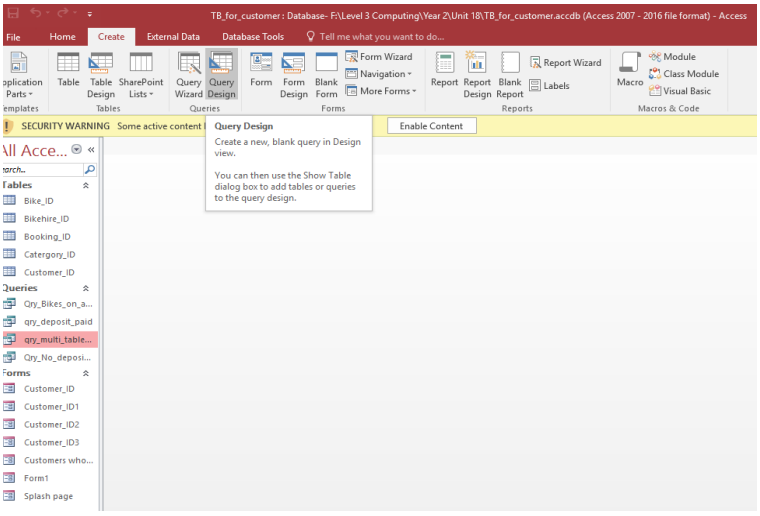


Since I inputted "[enter date]" as criteria, every time you click on your query on the side it will ask you to input a date.



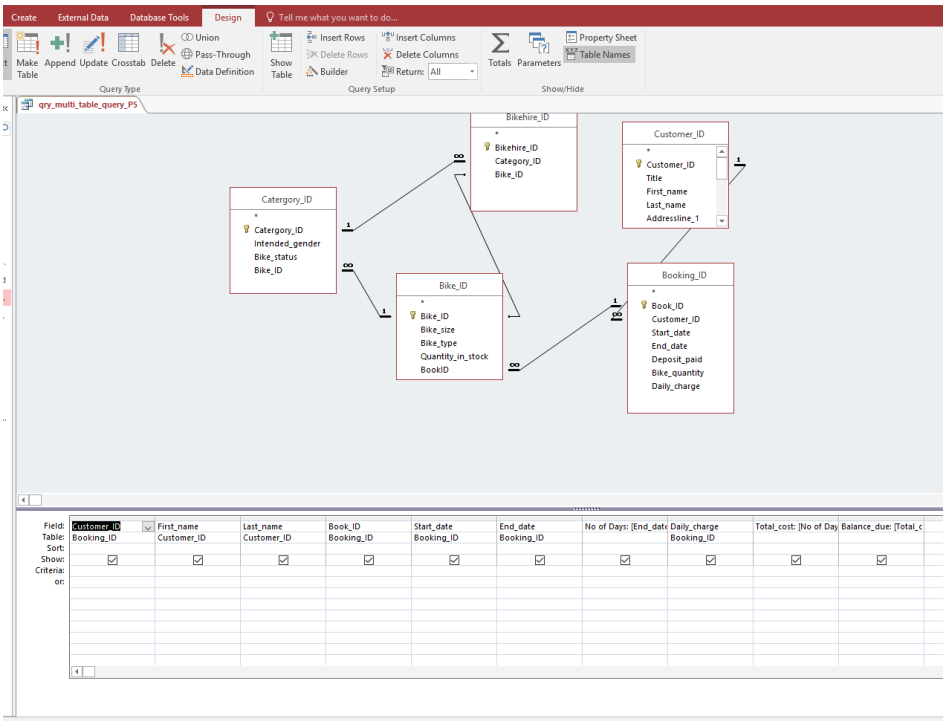
This shows a list of bikes hired on a certain date.

Multi table query

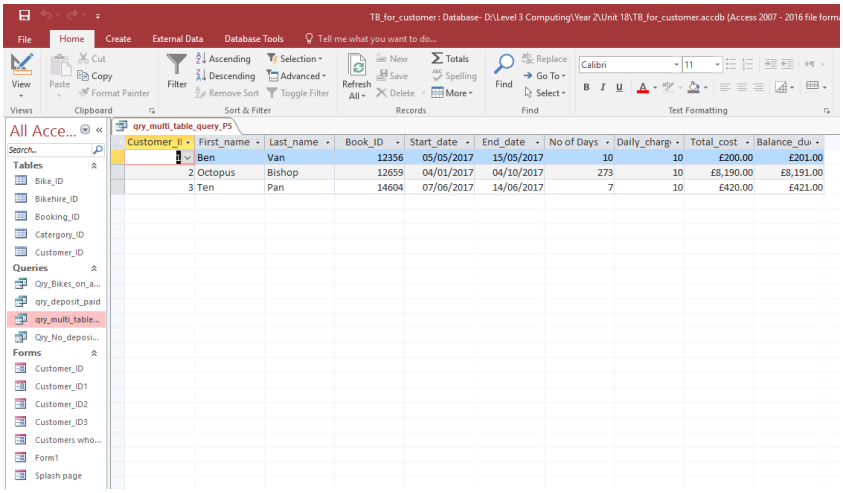


To create a query and go to the create tab and click on query design.

Nadim Uddin Unit 18: P5 P6 P7 M4 D2 ID
Number: 14100462

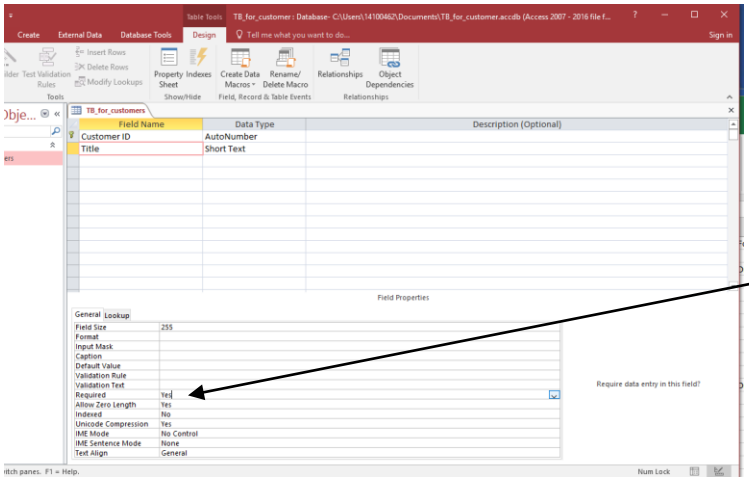


On the query design I include all my database tables and inputted the followings fields.

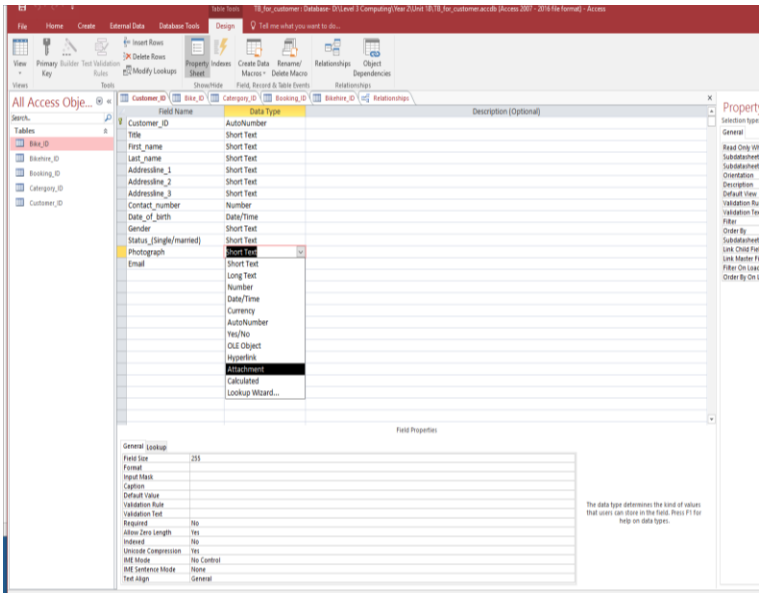


This is the information shown from the query design.

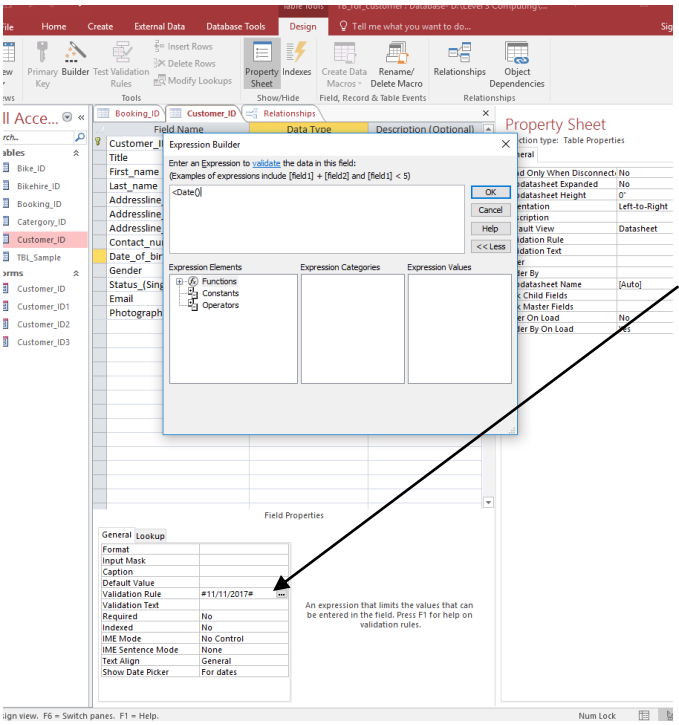
Validation rules and Macros



Here I showed validity of data by making areas of the database a must. This is done by having data being required as yes. This also checks for completeness so the necessary areas of the column must be filled in.



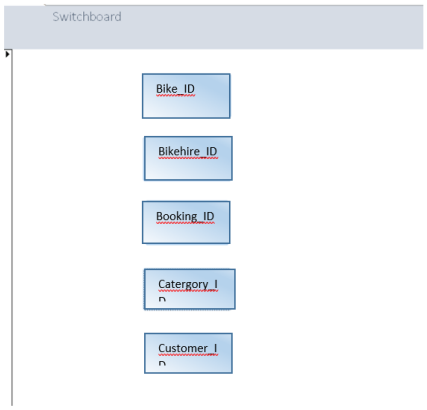
This shows me inputting an attachment as a datatype allowing pictures to be added to the photography field.

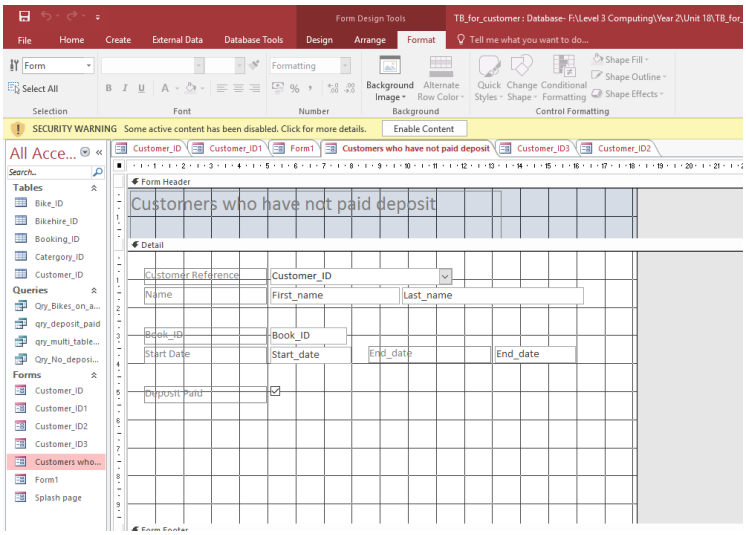


Here I included a validation rule to make sure there isn't any invalid data inputted.

Suggested improvements

There are many things I could of improved upon on my database design such as having a better looking form by making it more user friendly such as including more features such as payment options. I could have made the accessibility on the database much easier by including a switchboard which allows easy navigation.





(Compare to user requirements and comment on strength, weaknesses and room for improvement)