

Assignment 2 - Data Management - Luke Evans

by Luke James Evans

FILE	3783_LUKE_JAMES_EVANS_ASSIGNMENT_2_-_DATA_MANAGEMENT_-_LUKE_EVANS_114009_350205433.DOCX		
TIME SUBMITTED	11-MAY-2018 03:33PM (UTC+0100)	WORD COUNT	737
SUBMISSION ID	89003567	CHARACTER COUNT	5385

Project Management – Assignment 2 Documentation

Luke Evans

BIT

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Documentation

The following documentation will explain how the database is used and will describe its functions.

See Screenshots 1-10 in the Appendix for screenshots on tables created. These screenshot will show all 10 tables with 3 separate rows of suitably input data. Each table was created for every table shown in attached Entity relationship model.

Screenshot 11 in the Appendix shows the full lists of all the tables that were created for this database.

Screenshot 12 in the Appendix shows the relationships created between all the databases tables to show how they link together. The relationships screen and each table shows the primary key for each data category.

Screenshot 13 in the Appendix shows the Main Menu form which is essentially what the user can use to navigate the database with ease instead of going through each list and finding the exact table/report that they want. This form shows numerous buttons available to the user, first displaying shortcuts to all available tables and then buttons to take the user to all available reports from the queries.

Screenshots 25-27 in the Appendix shows the different input masks used for specific data input in tables to ensure that the correct information is being typed in. If the user goes against the input mask, the database will not allow them to continue until they have fixed it [1].

Screenshots 14-23 in the Appendix shows every form created in the database to display the data input into the tables in a more presentable way. Each form has a button to easily close it and will display the main menu form if you used the button on there to access the specific form. There are also buttons to access the next row of data for a specific table on the form by clicking the next button and also a previous button to view the previous record.

Screenshot 24 in the Appendix shows the list of all forms made for the database and you can see that for every table created, there is a form the accompany it and display its data more clearly and individually.

Screenshots 28-30 in the Appendix show the relationships of the tables used in the first query. It also shows which fields will be used for the queries report. The relationships show how the two tables are related and these queries are essentially used by the user to ask the database a question which is then printed as a report.

Screenshots 31-33 in the Appendix show the query in SQL view which is used to determine which fields will be used to answer the question asked by the user and will show those specific sets of data shown.

Screenshots 34-36 in the Appendix show the query in data sheet view which is the chosen fields all together in the standard database form. This is what the query looks like to display the data before the report is created.

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Screenshot 37 in the Appendix shows the list of queries that have been made within the database answer a specific question.

Screenshots 38-40 in the Appendix shows the reports produced from each query from the database. Query 1 was created to see which tutors were in which classes and report 1 displays the data required for the user to come to a conclusion for the query. Query 2 was created to see which members were in which classes and report 2 displays the data required for the user to come to a conclusion for the query. Query 3 was created to see which tutors have which qualifications and report 3 displays the data required for the user to come to a conclusion for the query.

Bibliography

- [1] J. Austin, "TextBox.InputMask Property (Access)," Microsoft , [Online]. Available: <https://msdn.microsoft.com/en-us/vba/access-vba/articles/textbox-inputmask-property-access>. [Accessed 30 April 2018].

Appendix

[illegible]

Class No	Name	Maximum Number	Tutor No	Add New Field
1	Theatre 1	40	1	
2	Class Room 1	20	2	
3	Sports Hall 1	30	3	
*				

Member No.	First Name	Last Name	House No & Street	District	Town/City	Post Code	DOB	Date Joined	Date of Last Renewal	Membership Type	Add New Field
1	Luke	Evans	51 Porth-Y-Waun	West Glamorgan	Swansea	SA4 3GH	02/07/1998	07/04/2015	07/04/2017	Annual	
2	Jack	Richards	2 Cefn Styile Road	West Glamorgan	Swansea	SA4 3LC	22/10/1999	09/08/2017	09/08/2017	Annual	
3	Sam	Austin	11 Alden Drive	West Glamorgan	Swansea	SA4 3TY	12/04/1998	13/10/2017	13/12/2017	Monthly	

Member No	Class No	Add New Field
1	1	
2	2	
3	3	
*		

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Screenshot 5:

Booking	Class	Member	Member-Class	Membership-Type	Qualification	Room-Hall	Room-Type	Tutor	Tutor-Qualifications
				Membership Type ▾	Description ▾	Yearly Subscription ▾	Add New Field		
				Annual	The customers becomes a member for the new year	Yes			
				Monthly	The customer becomes a member for the next month	No			
				*					

Screenshot 6:

Booking	Class	Member	Member-Class	Membership-Type	Qualification	Room-Hall	Room-Type	Tutor	Tutor-Qualifications
	Qualification No	Description	Add New Field						
	1	First Degree							
	2	2:1 Degree							
	3	2:2 Degree							
*									

Screenshot 7:

Room No	Description	Room Type	Add New Field
1	Large Room for theory	Theatre	
2	Small Room for Theory	Class Room	
3	Large Room for Practical	Sports Hall	
*			

Screenshot 8:

Room Type	Description
Class Room	Small Room for theory
Sports hall	Large room for practical
Theatre	Large Room for theory

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Screenshot 9:

Booking	Class	Member	Member-Class	Membership-Type	Qualification	Room-Hall	Room-Type	Tutor	Tutor-Qualifications
Tutor No	First Name	Last Name	House No & Street	District	Town/City	Post Code	DOB	Add New Field	
1	Paul	Little	43 Beach Road	West Glamorgan	Swansea	SA4 3ER	09/10/1985		
2	Jamie	Gilbert	32 Fairy Grove	West Glamorgan	Swansea	SA4 3HK	01/12/1989		
3	Hannah	Johnson	71 Priors Way	West Glamorgan	Swansea	SA4 3LC	28/04/1987		
*									

Screenshot 10:

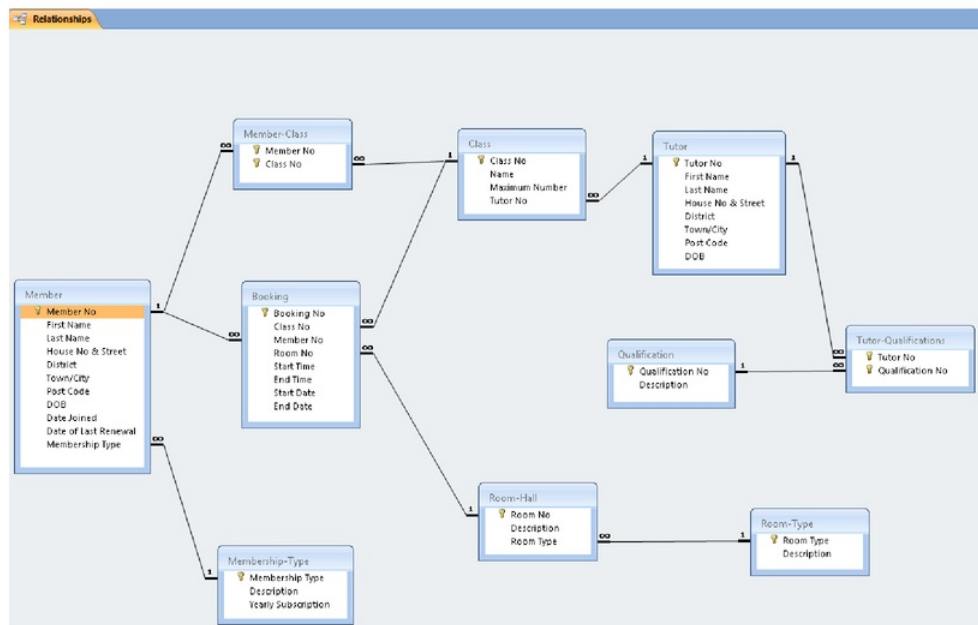
Booking	Class	Member	Member-Class	Membership-Type	Qualification	Room-Hall	Room-Type	Tutor	Tutor-Qualifications
Tutor No	Qualification No	Add New Field							
1	1								
2	2								
3	3								
*									

Screenshot 11:

Tables	⤴
Booking	
Class	
Member	
Member-Class	
Membership-Type	
Qualification	
Room-Hall	
Room-Type	
Tutor	
Tutor-Qualifications	

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Screenshot 12:



Screenshot 13:

Screenshot 13 displays the "Main Menu" interface of a software application. The menu is organized into two sections: "Forms" and "Reports".

Forms Section:

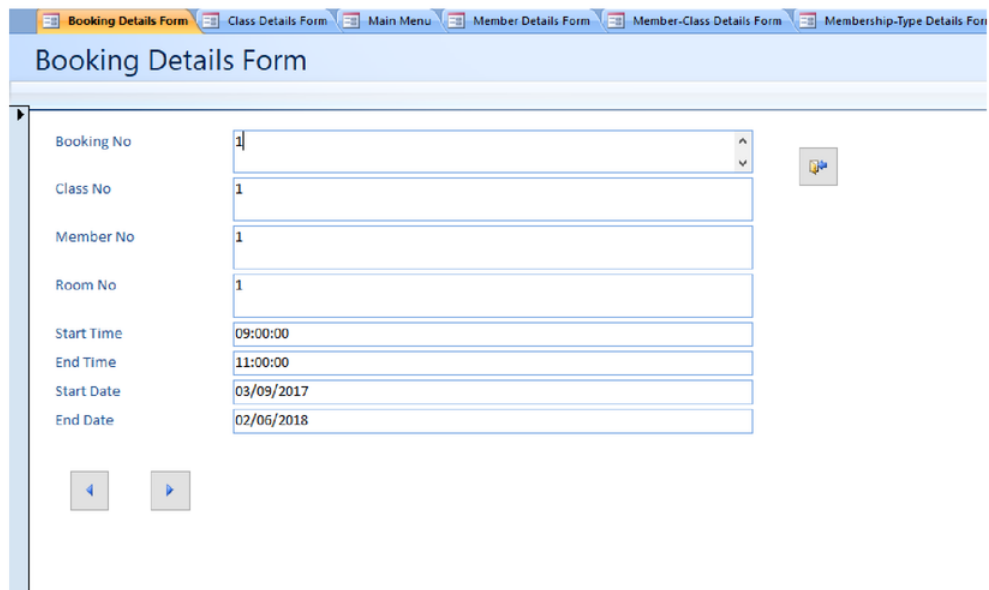
- Open Booking Details Form
- Open Class Details Form
- Open Member Details Form
- Open Member-Class Details Form
- Open Membership-Type Details Form
- Open Qualification Details Form
- Open Room-Hall Details Form
- Open Room-Type Details Form
- Open Tutor Details Form
- Open Tutor-Qualifications Details Form

Reports Section:

- Report 1
- Report 2
- Report 3

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Screenshot 14:

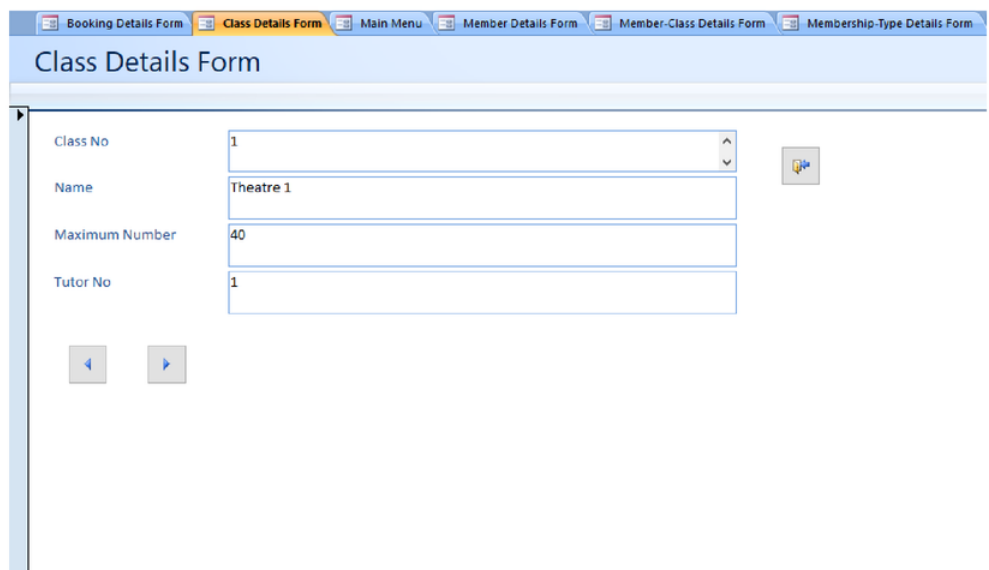


The screenshot shows a web application interface with a top navigation bar containing tabs: Booking Details Form (active), Class Details Form, Main Menu, Member Details Form, Member-Class Details Form, and Membership-Type Details Form. Below the navigation bar is a header section titled "Booking Details Form". The main content area contains a form with the following fields:

Field	Value
Booking No	1
Class No	1
Member No	1
Room No	1
Start Time	09:00:00
End Time	11:00:00
Start Date	03/09/2017
End Date	02/06/2018

At the bottom of the form, there are two navigation buttons: a left arrow and a right arrow. A small icon is visible to the right of the form fields.

Screenshot 15:



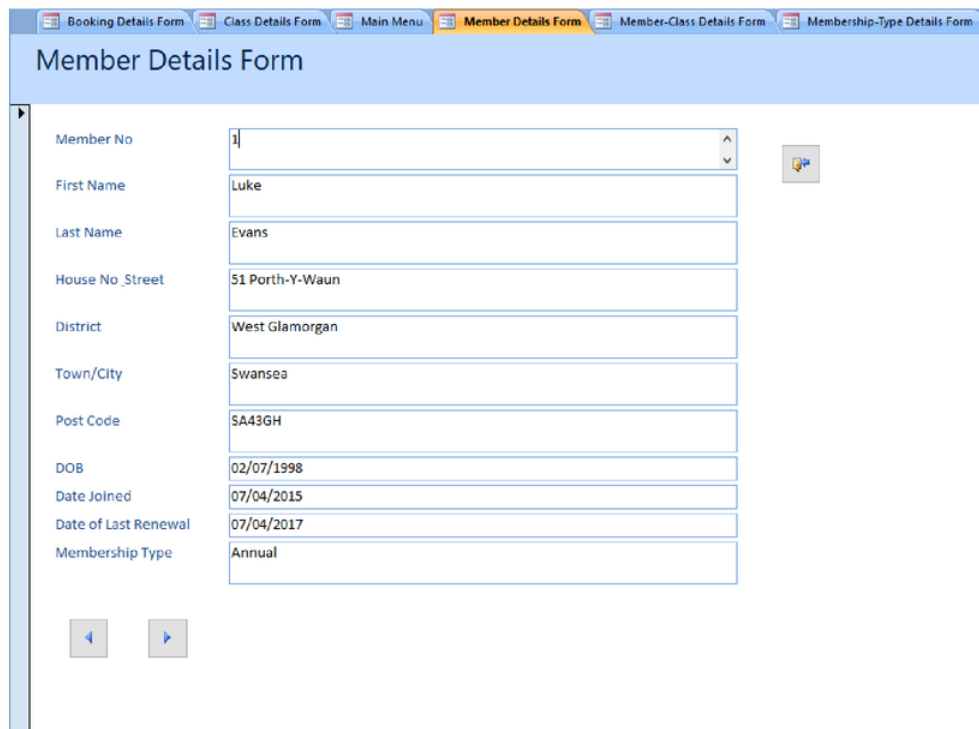
The screenshot shows the same web application interface, but with the "Class Details Form" tab selected in the navigation bar. The header section is titled "Class Details Form". The main content area contains a form with the following fields:

Field	Value
Class No	1
Name	Theatre 1
Maximum Number	40
Tutor No	1

At the bottom of the form, there are two navigation buttons: a left arrow and a right arrow. A small icon is visible to the right of the form fields.

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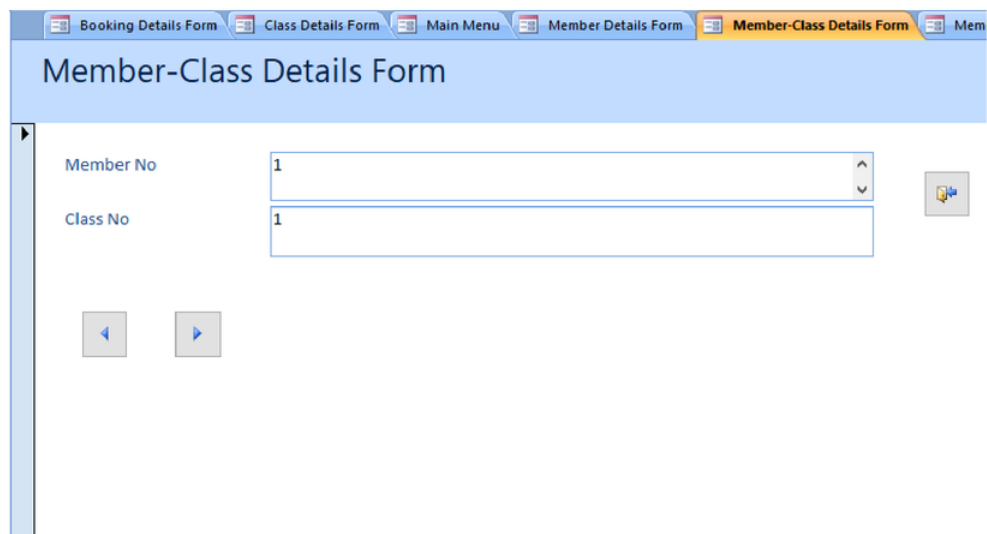
Screenshot 16:



The screenshot shows a web application interface with a menu bar at the top containing: Booking Details Form, Class Details Form, Main Menu, Member Details Form (highlighted), Member-Class Details Form, and Membership-Type Details Form. Below the menu is a blue header bar with the title "Member Details Form". The form itself is a vertical list of input fields on the left and their corresponding values on the right. The fields are: Member No (1), First Name (Luke), Last Name (Evans), House No. Street (51 Porth-Y-Waun), District (West Glamorgan), Town/City (Swansea), Post Code (SA43GH), DOB (02/07/1998), Date Joined (07/04/2015), Date of Last Renewal (07/04/2017), and Membership Type (Annual). To the right of the form is a small icon of a person. At the bottom of the form are two navigation buttons: a left arrow and a right arrow.

Field	Value
Member No	1
First Name	Luke
Last Name	Evans
House No. Street	51 Porth-Y-Waun
District	West Glamorgan
Town/City	Swansea
Post Code	SA43GH
DOB	02/07/1998
Date Joined	07/04/2015
Date of Last Renewal	07/04/2017
Membership Type	Annual

Screenshot 17:

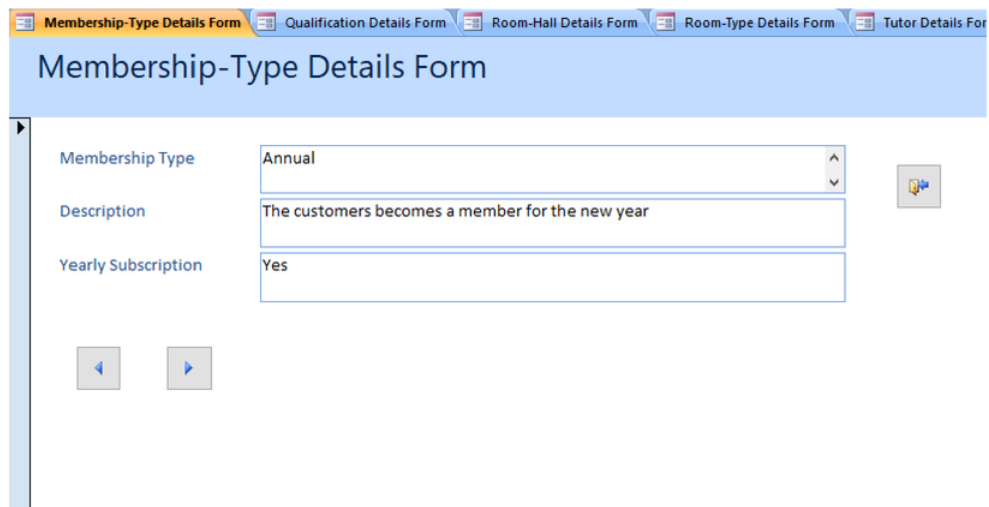


The screenshot shows a web application interface with a menu bar at the top containing: Booking Details Form, Class Details Form, Main Menu, Member Details Form, Member-Class Details Form (highlighted), and Mem. Below the menu is a blue header bar with the title "Member-Class Details Form". The form is a vertical list of input fields on the left and their corresponding values on the right. The fields are: Member No (1) and Class No (1). To the right of the form is a small icon of a person. At the bottom of the form are two navigation buttons: a left arrow and a right arrow.

Field	Value
Member No	1
Class No	1

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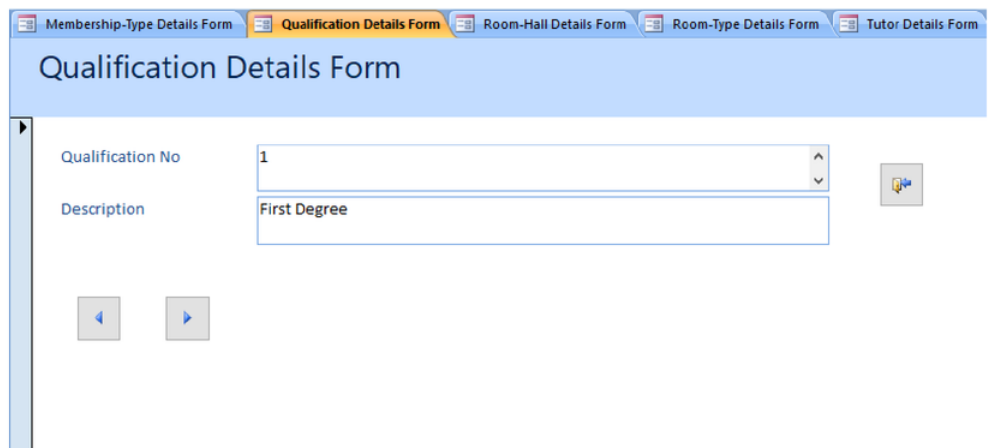
Screenshot 18:



This screenshot shows the 'Membership-Type Details Form' in a web application. The form is part of a multi-tabbed interface with tabs for 'Membership-Type Details Form', 'Qualification Details Form', 'Room-Hall Details Form', 'Room-Type Details Form', and 'Tutor Details Form'. The form has a light blue header with the title 'Membership-Type Details Form'. On the left, there is a vertical sidebar with a right-pointing arrow. The main content area contains three input fields: 'Membership Type' with a dropdown menu showing 'Annual', 'Description' with a text box containing 'The customers becomes a member for the new year', and 'Yearly Subscription' with a text box containing 'Yes'. To the right of these fields is a small icon of a person with a plus sign. At the bottom left, there are two navigation buttons: a left arrow and a right arrow.

Membership-Type Details Form	
Membership Type	Annual
Description	The customers becomes a member for the new year
Yearly Subscription	Yes

Screenshot 19:

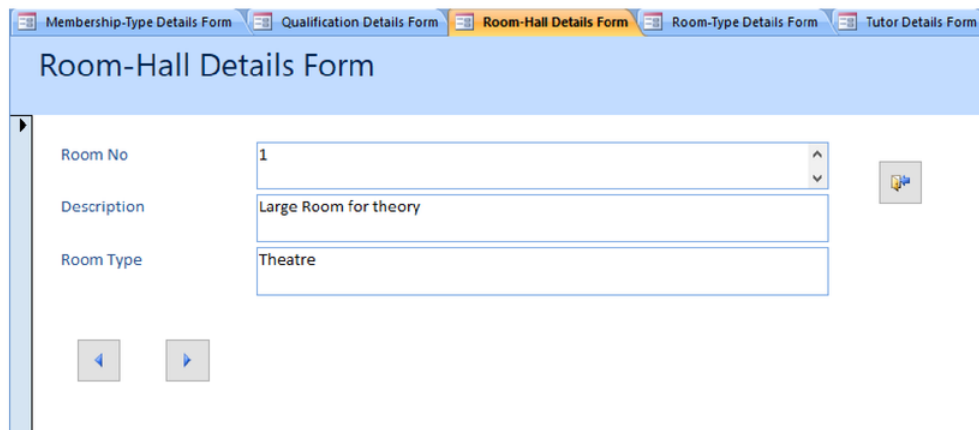


This screenshot shows the 'Qualification Details Form' in the same web application. The tabs at the top are 'Membership-Type Details Form', 'Qualification Details Form' (which is active), 'Room-Hall Details Form', 'Room-Type Details Form', and 'Tutor Details Form'. The form has a light blue header with the title 'Qualification Details Form'. The sidebar and navigation buttons are the same as in Screenshot 18. The main content area contains two input fields: 'Qualification No' with a dropdown menu showing '1', and 'Description' with a text box containing 'First Degree'. To the right of these fields is the same small icon of a person with a plus sign.

Qualification Details Form	
Qualification No	1
Description	First Degree

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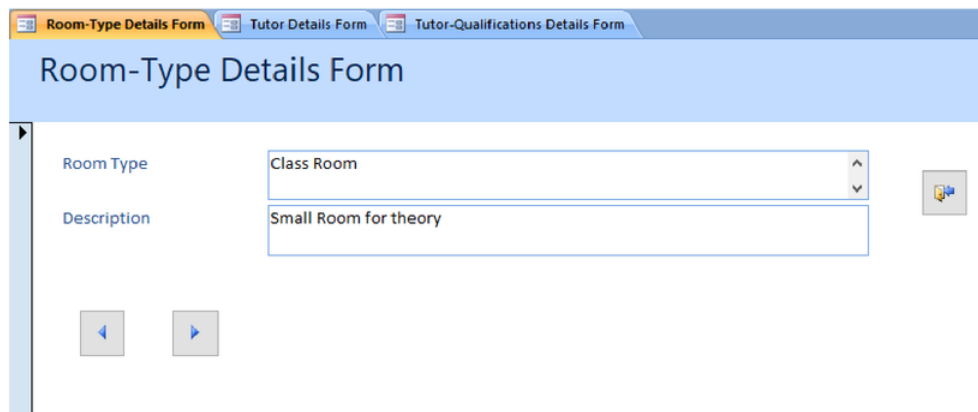
Screenshot 20:



This screenshot shows the 'Room-Hall Details Form' within a web application. The top navigation bar includes tabs for 'Membership-Type Details Form', 'Qualification Details Form', 'Room-Hall Details Form' (which is active), 'Room-Type Details Form', and 'Tutor Details Form'. The form itself has a light blue header with the title 'Room-Hall Details Form'. On the left, there is a vertical sidebar with a right-pointing arrow. The main content area contains three input fields: 'Room No' with the value '1', 'Description' with the value 'Large Room for theory', and 'Room Type' with the value 'Theatre'. To the right of these fields is a small icon of a document with a plus sign. At the bottom left of the form, there are two navigation buttons: a left arrow and a right arrow.

Room-Hall Details Form	
Room No	1
Description	Large Room for theory
Room Type	Theatre

Screenshot 21:

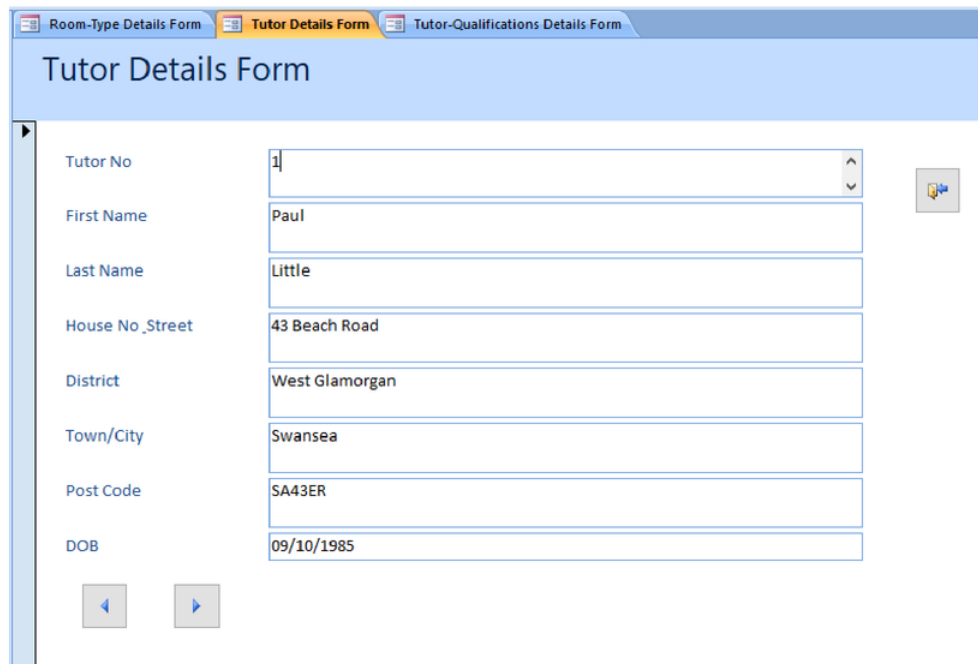


This screenshot shows the 'Room-Type Details Form' within the same web application. The top navigation bar includes tabs for 'Room-Type Details Form' (which is active), 'Tutor Details Form', and 'Tutor-Qualifications Details Form'. The form has a light blue header with the title 'Room-Type Details Form'. On the left, there is a vertical sidebar with a right-pointing arrow. The main content area contains two input fields: 'Room Type' with the value 'Class Room' and 'Description' with the value 'Small Room for theory'. To the right of these fields is a small icon of a document with a plus sign. At the bottom left of the form, there are two navigation buttons: a left arrow and a right arrow.

Room-Type Details Form	
Room Type	Class Room
Description	Small Room for theory

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Screenshot 22:

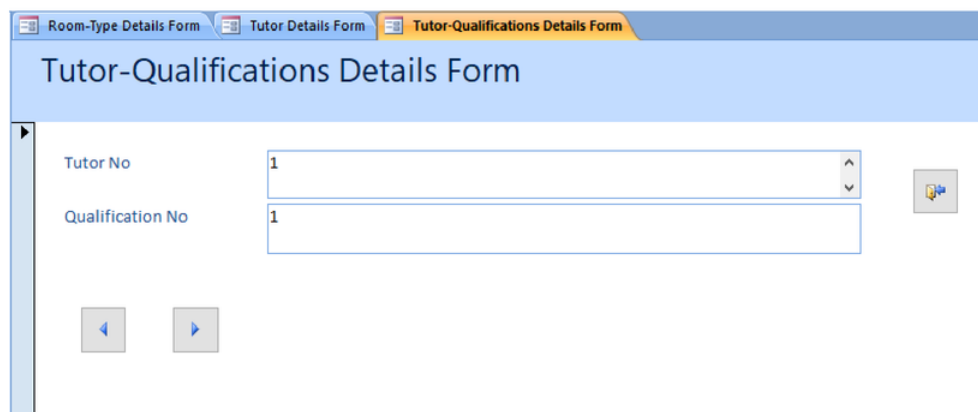


The screenshot shows a web application with three tabs: "Room-Type Details Form", "Tutor Details Form" (selected), and "Tutor-Qualifications Details Form". The "Tutor Details Form" is active and displays a form with the following fields:

Field	Value
Tutor No	1
First Name	Paul
Last Name	Little
House No ,Street	43 Beach Road
District	West Glamorgan
Town/City	Swansea
Post Code	SA43ER
DOB	09/10/1985

Navigation buttons (back and forward) are located at the bottom left of the form. A small icon is visible on the right side of the form.

Screenshot 23:



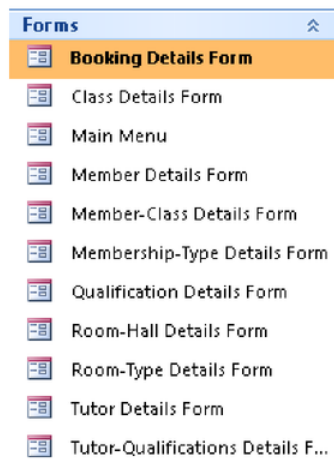
The screenshot shows the same web application with the "Tutor-Qualifications Details Form" selected. The form displays the following fields:

Field	Value
Tutor No	1
Qualification No	1

Navigation buttons (back and forward) are located at the bottom left of the form. A small icon is visible on the right side of the form.

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Screenshot 24:



Screenshot 25:

[illegible]

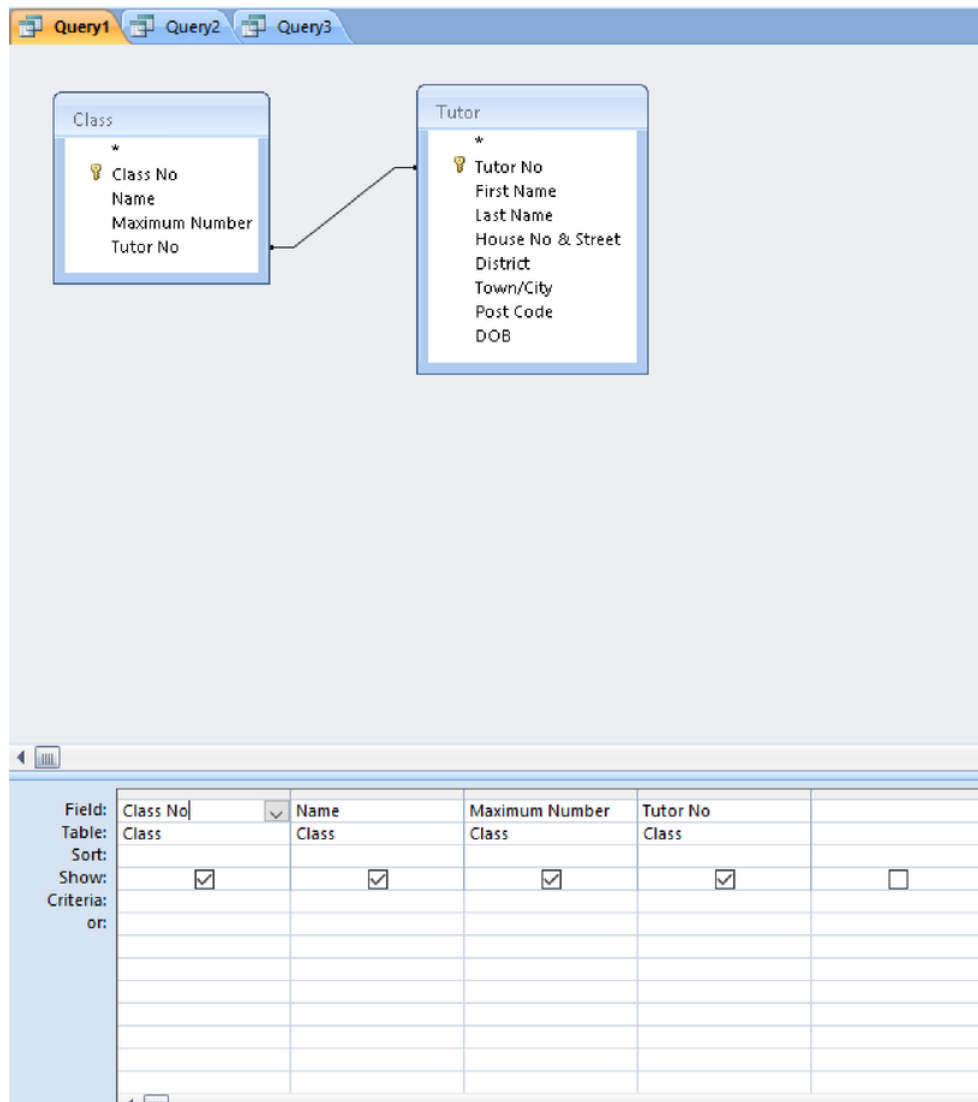
Screenshot 26:

[illegible]

Screenshot 27:

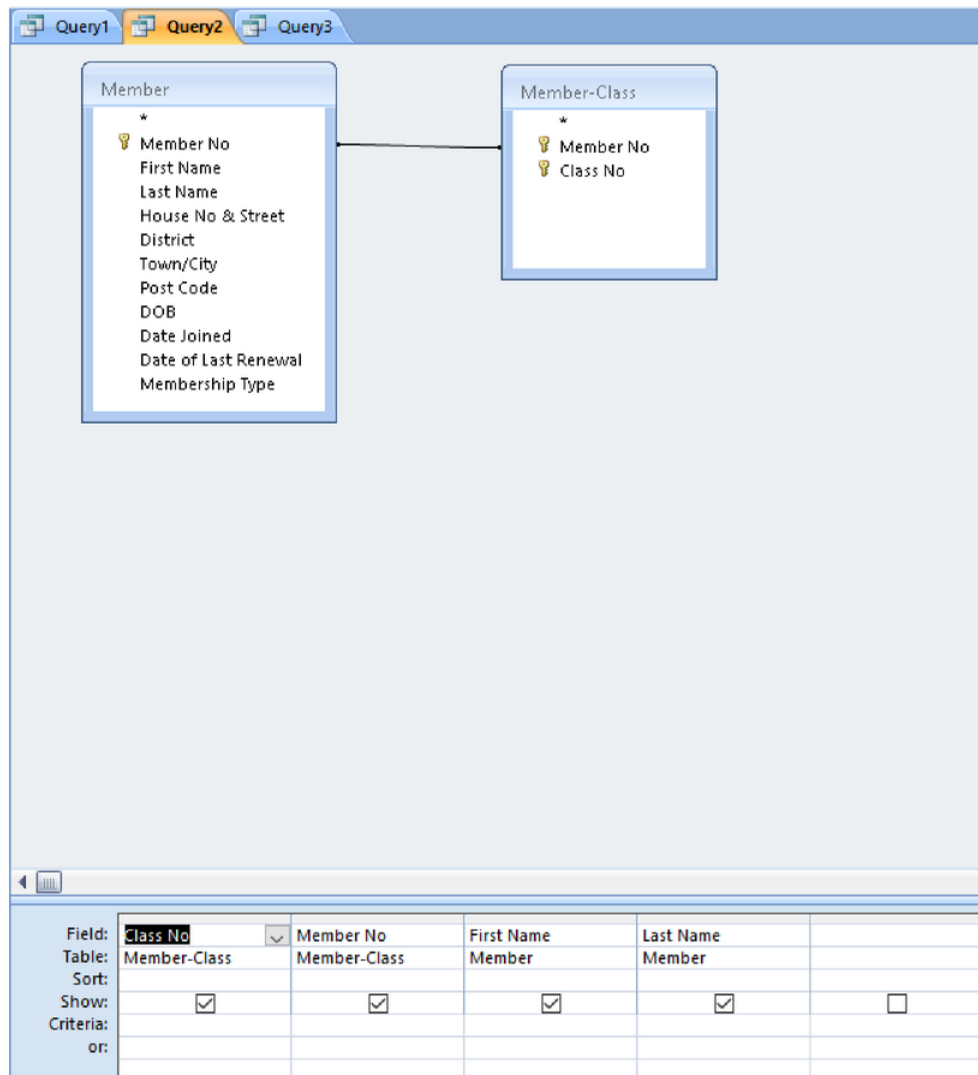
[illegible]

Screenshot 28:



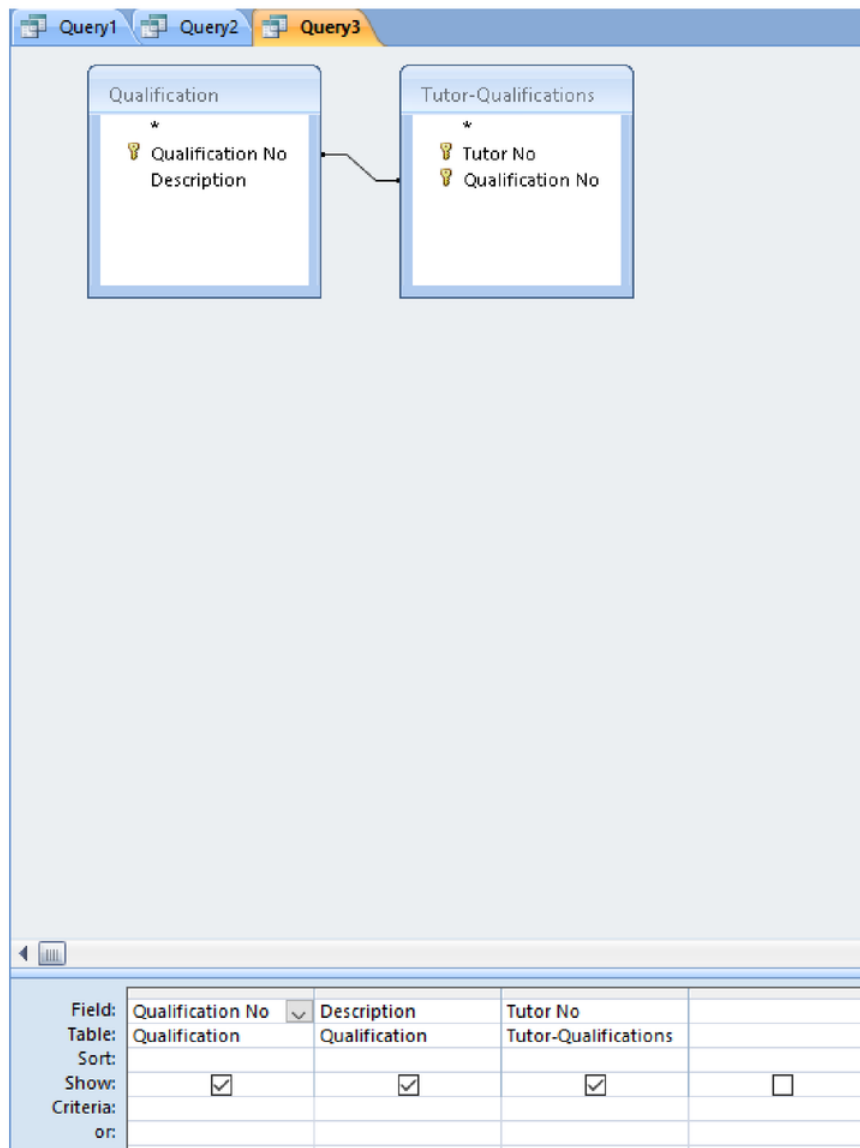
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Screenshot 29:



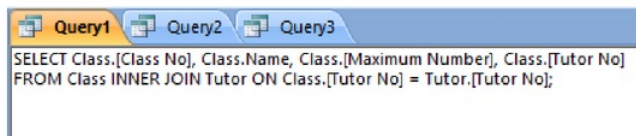
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Screenshot 30:



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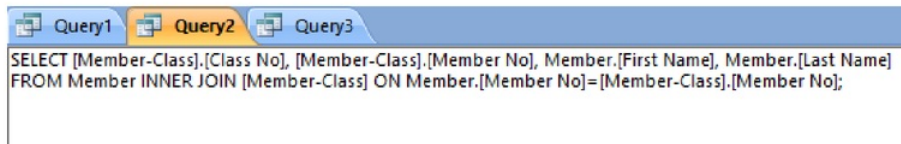
Screenshot 31:



Query1

```
SELECT Class.[Class No], Class.Name, Class.[Maximum Number], Class.[Tutor No]
FROM Class INNER JOIN Tutor ON Class.[Tutor No] = Tutor.[Tutor No];
```

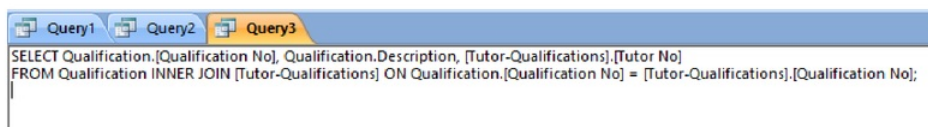
Screenshot 32:



Query2

```
SELECT [Member-Class].[Class No], [Member-Class].[Member No], Member.[First Name], Member.[Last Name]
FROM Member INNER JOIN [Member-Class] ON Member.[Member No]=[Member-Class].[Member No];
```

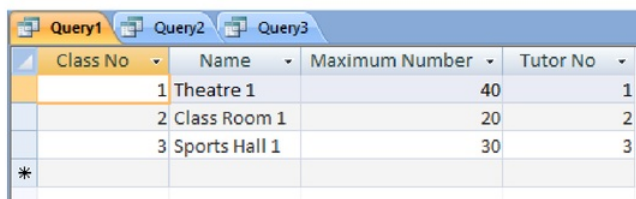
Screenshot 33:



Query3

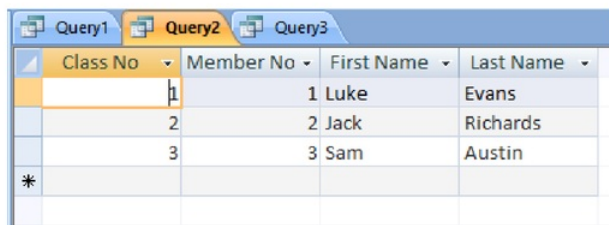
```
SELECT Qualification.[Qualification No], Qualification.Description, [Tutor-Qualifications].[Tutor No]
FROM Qualification INNER JOIN [Tutor-Qualifications] ON Qualification.[Qualification No] = [Tutor-Qualifications].[Qualification No];
```

Screenshot 34:



Class No	Name	Maximum Number	Tutor No
1	Theatre 1	40	1
2	Class Room 1	20	2
3	Sports Hall 1	30	3
*			

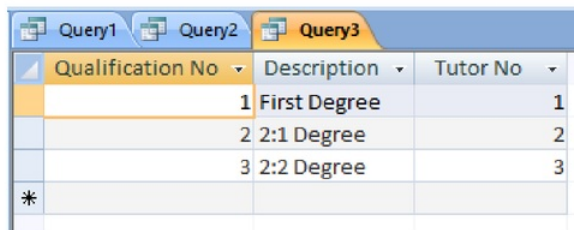
Screenshot 35:



Class No	Member No	First Name	Last Name
1	1	Luke	Evans
2	2	Jack	Richards
3	3	Sam	Austin
*			

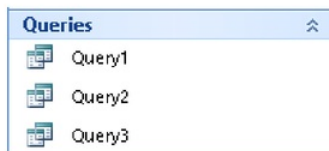
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Screenshot 36:



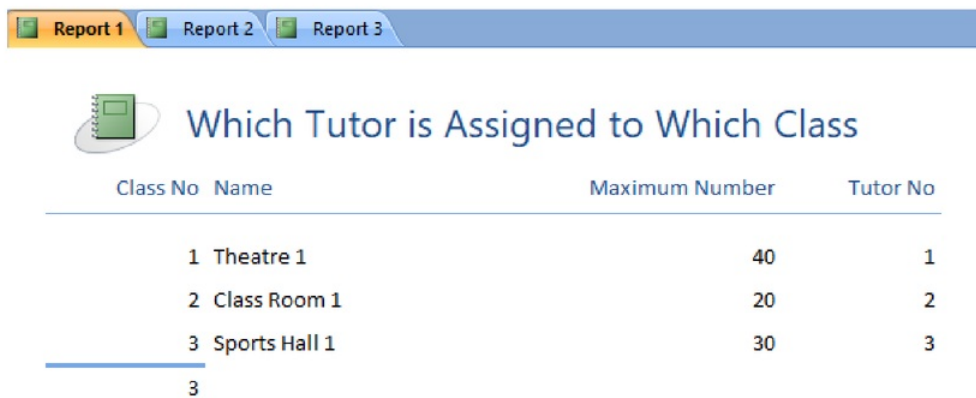
Qualification No	Description	Tutor No
1	First Degree	1
2	2:1 Degree	2
3	2:2 Degree	3
*		

Screenshot 37:



Queries
Query1
Query2
Query3

Screenshot 38:



Class No	Name	Maximum Number	Tutor No
1	Theatre 1	40	1
2	Class Room 1	20	2
3	Sports Hall 1	30	3
3			

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Screenshot 39:

Report 1 Report 2 Report 3			
 Which Members are in Which Class			
Class No	Member No	First Name	Last Name
1	1	Luke	Evans
2	2	Jack	Richards
3	3	Sam	Austin
3			

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Screenshot 40:

Report 1 Report 2 Report 3		
 Which Tutors have Which Qualifications		
Qualification No	Description	Tutor No
1	First Degree	1
2	2:1 Degree	2
3	2:2 Degree	3
3		

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GRADEMARK REPORT

FINAL GRADE

58/100

GENERAL COMMENTS

Instructor

A suitably well-written report. Maybe embed your screenshots within the text as it makes for a better read. The schema has been appropriately built however you need to revisit each table and add additional input masks and validation rules and possibly look up tables. No criteria in place to level the report somewhat simplistic. No macros have been used.

Analysis of systems requirements when building the database have been appropriately met and all tables have been given appropriate data types however no input masks and validation rules 17/25

You demonstrate a suitable understanding of the knowledge of the design principles when building system and all tables are present 15/25

Adding additional functionality to the software is somewhat limited for example but in super forms perhaps macros to enhance the user experience and build a better design. 19/45

Work is are to be presented 7/10 total 58

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