

**TEESSIDE UNIVERSITY
SCHOOL OF COMPUTING
Advance Database Systems
COM3037-N-FJ1-2016**

**Advance Database Systems
SQL Server Database
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Table of Contents

1. Introduction	1
2. Case Study	1
2.1 Project Deliverables.....	2
2.2 Project Plan	2
2.3 Database - Salon Staff Hierarchy	3
3. Database Design.....	4
3.1 Full Entity Relationship Diagram – All Data	4
3.2 Full Entity Relationship Diagram – Key View	5
3.3 Table List	6
3.4 Partial Entity Relationship Diagrams.....	7
3.4.1 Customers	7
3.4.2 Employees	8
3.4.3 Booking	9
3.4.4 Invoice	10
3.4.4 Treatment	11
3.4.5 Products	12
3.4.6 Equipment.....	13
3.4.7 Maintenance	14
3.4.9 HairAndBeautySalon and Assets	15
3.4.10 Forum.....	16
3.4.11 Training	17
3.5 Schemas.....	18
3.5.1 Booking Schema.....	19
3.5.2 Customer Schema	19
3.5.3 Salon Schema	20
3.5.4 Employee Schema.....	20
3.5.5 Products Schema.....	21
3.5.6 Forum Schema	21
3.5.7 Training Schema.....	22
3.5.8 Treatment Schema.....	22
4.1 Table Descriptions	23

4.1.1 Booking	23
4.1.2 BookingTime	24
4.1.3 Invoice	25
4.1.5 PaymentMethod	26
4.1.6 Pricing.....	27
4.1.6 Customer.....	28
4.1.7 Reviews	29
4.1.8 Employee	30
4.1.9 EmployeeAccess.....	31
4.1.10 EmployeeRole	32
4.1.11 SystemAuthorisation.....	33
4.1.12 Equipment.....	34
4.1.13 EquipmentType.....	35
4.1.14 Maintenance	36
4.1.15 MaintenanceType	37
4.1.16 CategoryForum	38
4.1.17 CustomerProfile	39
4.1.18 Forum Topic	40
4.1.19 Topic_Post.....	41
4.1.20 ProductImage.....	42
4.1.21 ProductStock.....	43
4.1.22 ProductStockLevel.....	44
4.1.23 ProductStockType	45
4.1.24 ProductSuppliers.....	46
4.1.25 AssetCategories.....	47
4.1.26 Assets	48
4.1.27 SalonAssets	49
4.1.28 HairAndBeautySalon	50
4.1.29 SalonOpeningTime	51
4.1.30 EmployeeTraining	52
4.1.31 TrainingActivity	53
4.1.32 TrainingCategory	54
4.1.33 TrainingVideo	55
4.1.34 Treatment	56
4.1.35 TreatmentEquipment.....	57
4.1.36 TreatmentProductStock.....	58

4.1.37 TreatmentType.....	59
4.2 VIEWS	60
4.2.1 Invoice View	60
4.2.2 Maintenance Date View.....	61
4.2.3 All Bookings View	62
4.2.4 All Future Bookings View	63
4.2.5 Next Month Bookings View.....	64
4.2.6 Training Passed View	65
4.2.7 Training Failed View.....	66
4.2.8 All Reviews	67
4.2.9 Positive Reviews.....	68
4.2.10 Negative/Neutral Reviews	69
4.2.11 Price List View	70
4.2.12 Certain Price Viewing	71
4.3 SQL Programming.....	72
4.3.1 Data Definition Language.....	72
4.3.1.1 Create Table	72
4.3.1.2 Create an Index.....	73
4.3.1.3 Create a Unique Index.....	73
4.3.1.4 Drop Index.....	73
4.3.1.5 Drop Table.....	73
4.3.1.6 Alter Table - Add Column	74
4.3.1.7 Alter Table – Modify Column	74
4.3.1.8 Constraints	75
4.3.1.9 Create View	78
4.4.2 Data Manipulation Language.....	79
4.4.2.1 Select All.....	79
4.4.2.2 Select Column(s)	79
4.4.2.3 Select using WHERE	80
4.4.2.4 Select using WHERE Range	80
4.4.2.5 OR Operator.....	80
4.4.2.6 ALL.....	81
4.4.2.7 ORDER BY	81
4.4.2.8 DISTINCT.....	82
4.4.2.9 INSTER INTO	82

4.4.2.10 UPDATE	83
4.4.2.11 DELETE.....	83
4.4.2.12 TOP.....	83
4.4.2.13 TOP - PERCENT.....	84
4.4.2.14 TOP - WHERE.....	84
4.4.2.15 MIN / MAX	84
4.4.2.16 LIKE.....	85
4.4.2.17 JOIN's	85
4.4.2.18 SELECT INTO.....	86
5. Advanced SQL Database Features.....	87
5.1 SQL Server Integration Services (SSIS).....	87
5.1.1 Open Microsoft Studio.....	87
5.1.2 New Project.....	88
5.1.3 Integration Services Project.....	88
5.1.4 Create New Package Name.....	89
5.1.5 New flat file connection.....	89
5.1.6 Setting Properties – General.....	90
5.1.7 Setting Properties – Columns.....	91
5.1.8 Connection Manager Confirmation	91
5.1.9 New OLE DB Connection	92
5.1.10 Configuration Manager	92
5.1.11 Enter Server Credentials	93
5.1.12 Connection Manager Confirmation	93
5.1.13 Adding a Data Flow Task	94
5.1.14 Adding a Flat File Source	94
5.1.15 Flat File Source Editor	95
5.1.16 Adding a OLE DB Destination	96
5.1.17 OLE DB Destination Editor – Connection Manager.....	96
5.1.18 OLE DB Destination Editor – Mappings.....	97
5.1.19 Package Validation Error.....	97
5.1.20 Data Conversion.....	98
5.1.21 Formatting Data Types.....	98
5.1.22 Re-Mapping Converted Data	99
5.1.23 Execute Package.....	100
5.1.24 Database population.....	100

5.2 SQL Server Reporting Services (SSRS)	101
5.2.1 Creating the Data Source	101
5.2.1.1 New Project.....	101
5.2.1.2 Project Type	102
5.2.1.3 New Data Source.....	102
5.2.1.4 New Data Source.....	103
5.2.1.5 Authentication	104
5.2.1.6 Edit	105
5.2.1.7 Connection Properties	106
5.2.1.8 Test connection.....	107
5.2.1.9 Connection String.....	108
5.2.1.10 Finalise the Data Source.....	108
5.2.2 Creating an SSRS Report	109
5.2.2.1 New Item.....	109
5.2.2.2 Report Project.....	110
5.2.2.3 Report Project.....	110
5.2.3 Configuring the Connection Information.....	111
5.2.3.1 Connecting to Shared Data Source	111
5.2.3.2 Connecting to Shared Data Source	111
5.2.3.3 Data Source.....	112
5.2.4 Defining the Dataset	112
5.2.4.1 Defining a Dataset.....	112
5.2.4.2 Dataset Properties	113
5.2.4.3 Query Designer	114
5.2.4.4 Edit as text.....	114
5.2.4.5 Query Result.....	114
5.2.4.6 Edit Table	115
5.2.4.7 Fields	115
5.2.4.8 Datasets	116
5.2.5 Designing the Report	116
5.2.5.1 Report Layout.....	116
5.2.5.2 Adding Columns	117
5.2.5.3 Formatting the table	117
5.2.5.4 Previewing the table	117
5.2.6 Formatting the report	118

5.2.6.1 Formatting the Date column.....	118
5.2.6.2 Text Box Properties.....	118
5.2.7 Deploying the Report	119
5.2.7.1 Properties.....	119
5.2.7.2 Properties.....	120
5.2.7.3 Deploy	120
5.3 SQL Server Analysis Services (SSAS)	121
5.3.1 Creating an SSAS package	121
5.3.1.1 New Project.....	121
5.3.1.2 Select Analysis Service	122
5.3.1.3 Project Location	122
5.3.2 Configuring Data Source	123
5.3.2.1 New Data Source.....	123
5.3.2.2 New Data Source.....	123
5.3.2.3 Connection Manager	124
5.3.2.4 Test Connection	124
5.3.2.5 Impersonation Information	125
5.3.2.6 Preview Page.....	125
5.3.2.6 Data Source Complete	126
5.3.3 Configuring Data Source Views.....	127
5.3.3.1 New Data Source View.....	127
5.3.3.2 New Data Source View.....	128
5.3.3.3 New Data Source View.....	129
5.3.3.4 Name the view	129
5.3.3.5 Design View.....	130
5.3.3.6 Explore Data.....	130
5.3.3.6 Table Data	131
5.3.4 Creating Cube & Dimensions	131
5.3.4.1 New Cube.....	131
5.3.4.2 Existing Tables.....	132
5.3.4.3 Existing Tables.....	132
5.3.4.4 Select Measures	133
5.3.4.5 Select New Dimensions.....	133
5.3.4.6 Cube Design	134
5.3.4.6 Deploy – Connection String	134

5.3.4.7 Deploy – Account Password.....	135
5.3.4.8 Deploy – Success	135
5.3.5 Data Output	136
5.3.5.1 Finding the outputs.....	136
5.3.5.2 Browser tab.....	136
5.3.5.3 Data.....	137
5.3.5.4 Data.....	137
5.3.5.5 Add a measure to the design view.....	138
5.3.5.6 Creating levels.....	138
5.3.5.7 Drag data.....	139
5.3.5.8 More Complicated Data.....	139
5.3.6 Data Mining.....	140
5.3.6.1 Creating a Data Mining Structure	140
5.3.6.2 Definition Method.....	140
5.3.6.3 Data Mining technique	141
5.3.6.4 Data Mining technique	142
5.3.6.5 Data Mining technique	142
5.3.6.6 Selecting Cube Dimensions.....	143
5.3.6.7 Selecting an attribute.....	144
5.3.6.8 Selecting Attributes and Measures.....	145
5.3.6.9 Inputs and predictions	146
5.3.6.10 Content and Data Type	146
5.3.6.11 setting the dimensions.....	147
5.3.6.12 Creating a Testing Set	147
5.3.6.13 Appropriate Mining Name	148
5.3.6.14 Structure	148
5.3.6.15 Model Prediction	149
5.3.6.16 Table Selection.....	149
5.3.6.17 Mining Model Prediction	150
5.3.6.18 Mining Model Prediction	150
5.3.6.19 Deploying	151
5.3.6.20 Deployment Success Message	151
5.3.6.21 Run	152
5.3.6.22 Output.....	153
5.4 ASP.NET MVC Web Application.....	154

5.4.1 Creating a new MVC Project	154
5.4.1.1 New Project.....	154
5.4.1.2 ASP.NET Web App.....	155
5.4.1.3 MVC.....	155
5.4.1.4 Project Created	156
5.4.1.5 Run	156
5.4.2 Creating an Entity Framework Model.....	157
5.4.2.1 Creating the Model	157
5.4.2.2 Creating the Model	158
5.4.2.3 Empty Class Library	158
5.4.2.4 Class1.cs	159
5.4.2.5 Add New Item	160
5.4.2.6 ADO.NET Entity Model.....	161
5.4.2.7 CFED Model.....	162
5.4.2.8 Connection	163
5.4.2.9 Data Source.....	164
5.4.2.10 Connection String.....	165
5.4.2.11 Table objects.....	166
5.4.2.12 Created Classes	167
5.4.2.13 Data within the classes	168
5.4.3 Connecting the MVC app to the EF Model	169
5.4.3.1 NuGet Packages	169
5.4.3.2 Install the package	170
5.4.3.3 References	170
5.4.3.4 Selecting the Model	171
5.4.3.5 Connection String.....	171
5.4.3.6 Connection String Copy.....	172
5.4.3.7 Web.config.....	172
5.4.3.8 Connection String Copy.....	173
5.4.4 Adding a controller.....	173
5.4.4.1 Controller	173
5.4.4.2 MVC 5 Controller.....	174
5.4.4.3 Name accordingly	174
5.4.4.4 Empty class.....	175
5.4.4.5 Creating an instance of the database	176
5.4.5 Creating a View	176

5.4.5.1 View all Customers.....	176
5.4.5.2 Scaffolding a view	177
5.4.5.3 View Configuration	177
5.4.5.4 New view.....	178
5.4.5.5 Adding Customer Tab.....	178
5.4.5.6 Contact tab.....	179
5.4.5.7 Start-up Project.....	179
5.4.5.8 Run the Project	180
5.4.5.9 All Customers	180
5.4.5.10 Tidying Up	181
5.4.5.11 Deleting / Commenting.....	181
5.4.5.12 Run the project	182
5.4.5.13 more defined.....	182
5.4.6 Create New Customer.....	182
5.4.6.1 Necessary Code.....	183
5.4.6.2 Scaffold the Create View.....	183
5.4.6.3 View Properties.....	183
5.4.6.4 Solution Explorer.....	184
5.4.6.5 Nav bar.....	184
5.4.6.6 Create.....	184
5.4.6.6 Enter Details.....	185
5.4.6.7 New Customer	185
5.4.6.8 Database	186
5.4.7 View Details.....	186
5.4.7.1 Add Code	186
5.4.7.2 Scaffold the Details View	186
5.4.7.3 View Configuration	187
5.4.7.4 Solution Explorer.....	188
5.4.7.5 Customer Navigation bar	188
5.4.7.6 Details	189
5.4.7.7 Full Details.....	189
5.4.8 Edit Details	190
5.4.8.1 Add Code	190
5.4.8.2 Create the Edit View	191
5.4.8.3 Edit View Properties.....	191
5.4.8.4 Solution Explorer.....	192

5.4.8.5 Run the program.....	192
5.4.8.6 Edit	192
5.4.8.7 Edit Address	193
5.4.8.8 New Details	193
5.4.9 Delete	193
5.4.9.1 Database	193
5.4.9.2 Code	194
5.5 Permissions for Users within the Database	195
5.5.1 Creating a User.....	195
5.5.1.1 Add New.....	195
5.5.1.2 User Details	196
5.5.2 Three Permissions.....	197
5.5.2.1 Grant – Insert	197
5.5.2.2 Deny	200
5.5.2.3 Revoke.....	200
5.5.2 Stored Procedures.....	201
5.5.2.1 Simple Stored Procedure – Code	201
5.5.2.2 Show certain records	201
5.5.2.3 Create Procedure	202
5.5.2.4 Execute.....	202
5.5.2.5 Location.....	203
5.5.2.6 Executing Code – another way	203
5.5.2.7 Running the Procedure	204
5.5.3 Granting permissions on a stored procedure	205
5.5.3.1 Selecting the stored procedure	205
5.5.3.2 Properties.....	206
5.5.3.3 Browse for Objects.....	206
5.5.3.4 Selecting Permissions.....	207
6. Critical review	208
6.1 Purpose	208
6.2 Project Review.....	208
6.2 Achievements	208
6.3 Non-achievements / future improvements	210
6.4 Academic Reflection.....	210

6.5 Conclusion.....	210
6.6 Student Marking Sheet	211
7. Appendix	212
7.1 Generating Scripts.....	212
7.1.1 Object Explorer	212
7.1.2 Introduction Page.....	213
7.1.3 Choose Objects	214
7.1.4 Set Scripting Objects	215
7.1.5 Advance Scripting Options.....	216
7.1.6 File Name	217
7.1.7 Review your selections	218
7.1.8 Saving Scripts	219
7.2 Different Database Design views.....	220
7.2.1 Column name design view	220
7.2.2 Table Name Design View	221
7.3 Database Scripts	222
7.3.1 Guappo Hair Design Database – Full.....	222
7.3.2 Assessment Database - Full.....	345
7.3.3 DDL Scripts	349
7.3.3.1 Create Table	349
7.3.3.2 Create Index.....	349
7.3.3.3 Create Unique Index	349
7.3.3.4 Drop Index.....	349
7.3.3.5 Drop Table.....	349
7.3.3.6 Alter Table	349
7.3.3.7 Modify Column.....	350
7.3.3.8 Primary Key	350
7.3.3.9 Foreign Key.....	350
7.3.3.10 Check.....	350
7.3.3.12 Default.....	350
7.3.3.13 Create View.....	351
7.3.4 DML Scripts	352
7.3.4.1 Select All.....	352
7.3.4.2 Select Columns.....	352

7.3.4.3 Select Using Where	352
7.3.4.4 Select Using Where Range	352
7.3.4.5 OR Operator	352
7.3.4.6 All	352
7.3.4.7 Order By	352
7.3.4.8 Distinct	352
7.3.4.9 Insert Into.....	352
7.3.4.10 Update	353
7.3.4.11 Delete.....	353
7.3.4.12 Top	353
7.3.4.13 Top Percent.....	353
7.3.4.14 Top WHERE	353
7.3.4.15 Min/Max	353
7.3.4.16 Like	353
7.3.4.17 SelectInto	353
7.3.5 Script Downloads	354
7.3.5.1 Database Scripts.....	354
7.3.5.2 DDL Scripts	354
7.3.5.3 DML Scripts	354
REFERENCES.....	355

1. Introduction

The purpose of this project is twofold; firstly to document both the design and implementation of an SQL Server database. Secondly to review and evaluate how successful the project was; pointing out areas of success, difficulty and sections that could be improved.

2. Case Study

Most beauty salons are still using paper-based solutions for everything they do. They are taking up un-unnecessary space with all of their cabinets to store this data.

This database will allow any Hair and Beauty Salon to sign their business up, create accounts for all of their staff. The system will be restricted based on their qualifications and expertise. Once logged in, employees will have their own restricted dashboard. Salons sell many products that will all need to be replenished in a timely fashion, it is sometimes hard to keep track of their products and this database will track every item. Once items reached 20 (Low) it will trigger that more stock is required, Employees will be able to see images for each product making it easy to re-purchase.

The database will track what equipment is needed for appointments. It will also manage all of the salons assets, including what maintenance is needed on certain assets.

Users will be able to communicate with one another using the on board forum.

Once a client has had their booking, an invoice would be generated and fired to the database. From there it would be sent to the customers email address. Customers would then be able to leave reviews; users would then be able to see whom the top five salons are in their area.

This database is based on Guappo Hair Design. A Hair salon in the North East of England that have been awarded finalists for 5 years running for North East Salon of the year. This database will be paired with a front-end website creating an application for this live client for my final year project. Although this project is based on a hair salon, it has been mapped over to a Beauty Salon, it will now cover hair, nails, tattoos and can have so many more added to it and rather than being for one salon in particular.

This cast study, it seems, is a facebook style idea for all hair and beauty salons throughout the world. Where both Salons and customers can communicate with each other through a forum.

2.1 Project Deliverables

Upon the successful completion of this assignment the following list of deliverables will be distributed:

- Successful installation of SQL Server 2014 32-bit
- Full and partial Entity Relationship Diagrams (ERD)
- Create a correct and error-free server database
- Demonstrate both Data Definition Language (DDL) and Date Manipulation Language (DML)
- Explore advance server features

The software used to create this database is SQL Server 2014 Management Studio. I used Visio 2013 to create a draft drawing of the Entity Relationship Diagram. Microsoft SQL will be used as the programming language.

2.2 Project Plan

The following project plan shows a list of tasks and objectives which I hope to follow and complete within the time frame given. From the beginning I though this plan was fair.

Tasks	W/C January		W/C February			W/C March			W/C April				W/C May					
	23th	30th	6th	13th	20th	27th	6th	13th	20th	27th	3rd	10th	17th	24th	1st	8th	15th	22nd
Introduction																		
Research Project Ideas																		
Create an introduction																		
Case Study																		
Select a case study																		
Research Case Study																		
Research chosen Idea																		
Project Deliverables																		
Create a narrative																		
Database Design																		
Full ERD Diagrams																		
Partial ERM Diagrams																		
Implementation																		
Table descriptions																		
Table Views																		
Data Definition Language																		
Data Manipulation Language																		
Advanced Features																		
SSIS																		
SSRS																		
SSAS																		
ASP.NET MVC Web Application																		
User & Permissions																		
Critical Review																		
Purpose																		
Project Review																		
Conclusion																		
Appendix																		
Create Full Appendix																		

I have a 17-week period to complete my SQL server database project. The first week was an introduction to Advance Database Systems and involved a general talk through the module.

This is the initial scale of what I hope to achieve, all changes will be seen in the post project plan, below.

The only time my plan varied was the Advance section which, as you can see, took one week longer than expected; this was down to the SSAS and Data Mining in particular which I had a few problems with. This in turn gave me less time to complete the Critical Review and Appendix sections.

Overall, I am very happy with my plan. I gave myself a weekly work review, this kept me on track and let me know, for instance, if I had underperformed, how much work I had to complete to keep on track.

Tasks	W/C January		W/C February			W/C March			W/C April				W/C May					
	23th	30th	6th	13th	20th	27th	6th	13th	20th	27th	3rd	10th	17th	24th	1st	8th	15th	22nd
Introduction																		
Research Project Ideas																		
Create an introduction																		
Case Study																		
Select a case study																		
Research Case Study																		
Research chosen Idea																		
Project Deliverables																		
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Data Manipulation Language																		
Advanced Features																		
SSIS																		
SSRS																		
SSAS																		
ASP.NET MVC Web Application																		
User & Permissions																		
Critical Review																		
Purpose																		
Project Review																		
Conclusion																		
Appendix																		
Create Full Appendix																		

2.3 Database - Salon Staff Hierarchy

In every beauty salon, as with every business, there is a staff hierarchy of authority. This will ultimately determine which areas of the system needing to be restricted to certain staff members. The system will allow the salon manager to create as many staff as they require. After researching salon staff, it appears that the following list covers every staff member.

I have created the relevant employee roles stated from an online source (Bortkeviciute, 2013):

1. **Owner** – Is authorised to do anything.
2. **Manager** – Is authorised to do anything but create and delete salon.
3. **Senior** – Can create and updated anything. Will not be able to delete Salon, Employees, Stock, Treatments, invoices, Price, Equipment, Maintenance and assets.
4. **Mid-Level** – Cannot delete anything and is very limited to updating. Can add Supplier, stock, equipment and assets.
5. **Junior** – Can only add and update a customer and a treatment. Extremely limited role.

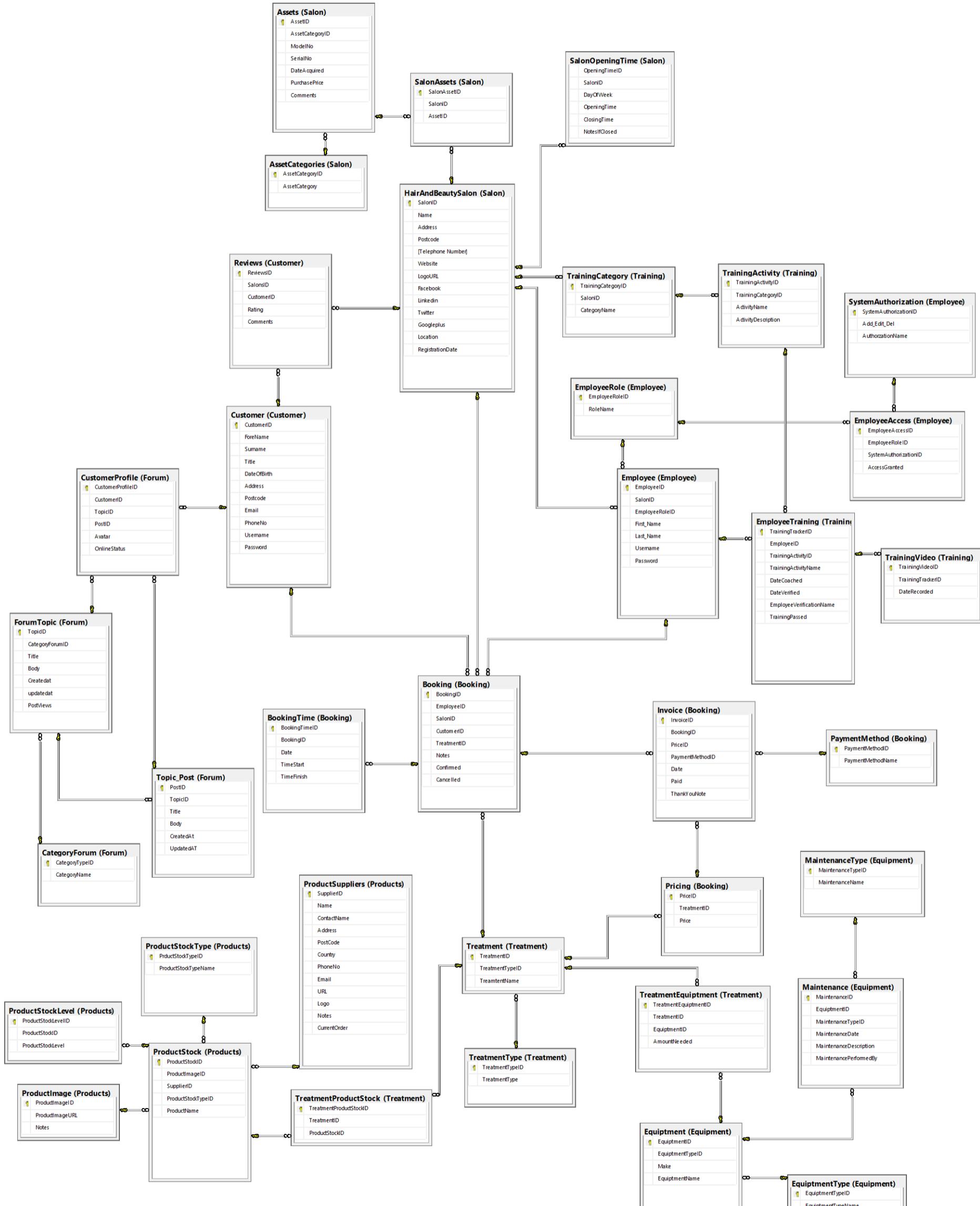
These roles will be mapped into the needs of any beauty salon. In this example it is a hair salon.

- **Junior Stylist** – This person is generally still attending college 1 day per week and carries out the most basic hair treatments whilst in the salon
- **Stylist** – Carries out all hair treatments at a lower cost as they are newly qualified.
- **Colour Technician** – Someone who only carries out colouring services within the salon.
- **Senior Stylist** - Many years of experience and training. Serves in leadership roles within the salon.
- **Salon Manager** – The Manager is the person responsible for controlling their group of staff.

3. Database Design

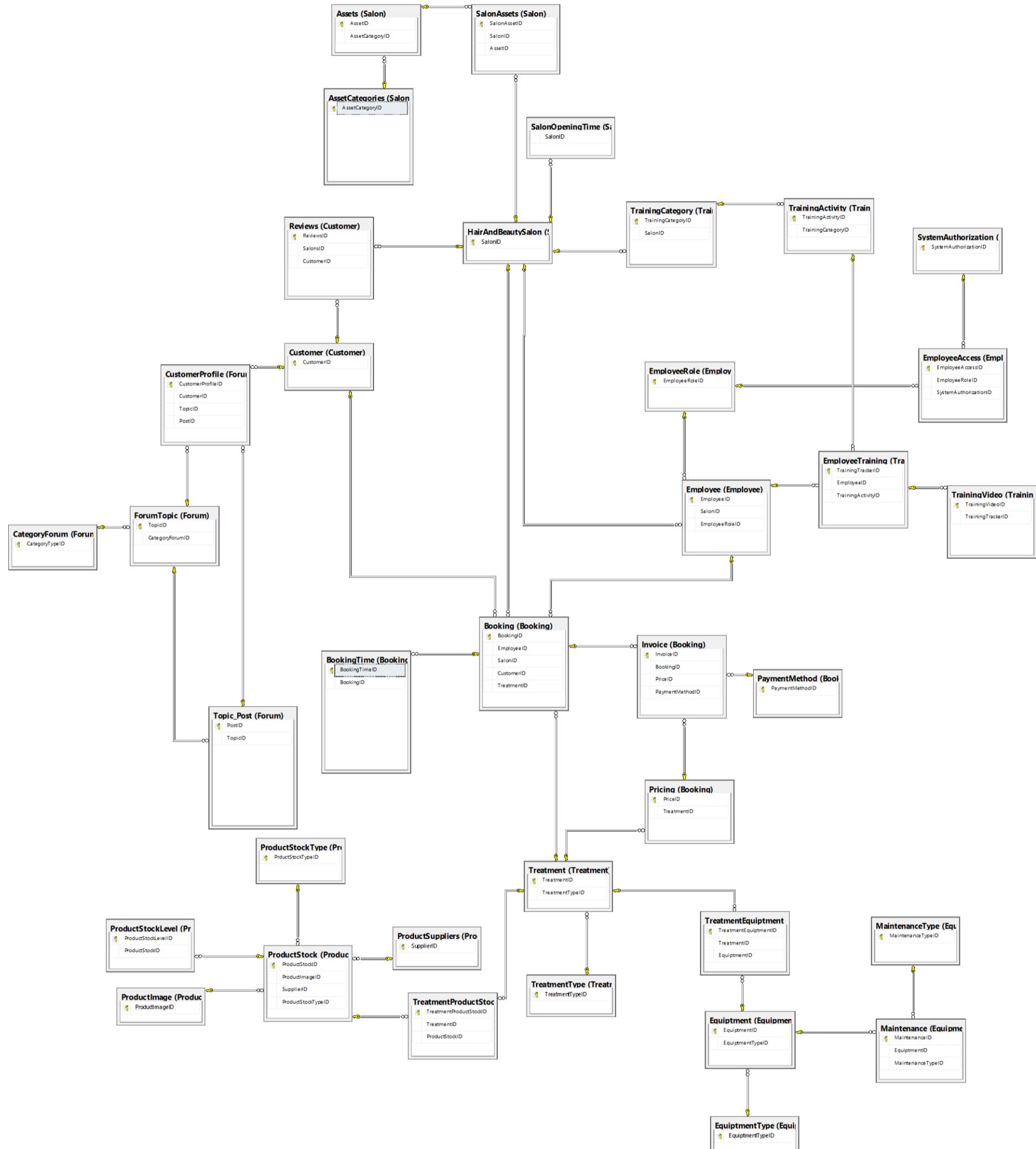
3.1 Full Entity Relationship Diagram – All Data

The following diagram is a full Entity Relationship Diagram from my creation of a server database. Please note that the yellow key signifies the primary key in that particular table.



3.2 Full Entity Relationship Diagram – Key View

The following diagram is a full ERD with the table view set only to show keys. Again, the yellow keys in shown in this table is a primary key. Anything else is a foreign key since this is broke down to show only the keys.



3.3 Table List

The following is a list of tables used within my design of a server database:

Number	Table Name	Holding Data
1	Booking	Customer's booking with a salon
2	BookingTime	Time of the booking
3	Invoice	Data regarding payment
4	PaymentMethod	Method of payment
5	Pricing	Price of a treatment
6	Customer	Customer information
7	Reviews	Customer reviews against a salon
8	Employee	Data regarding a salons employees
9	EmployeeAccess	Grants access to system depending on the staff hierarchy
10	EmployeeRole	Roles given to a certain employee
11	SystemAuthorisation	What an employee has the authorisation to do
12	Equipment	Equipment name and make,
13	EquipmentType	Equipment from different professions (Hair/Nail etc.)
14	Maintenance	Maintenance of equipment
15	MaintenanceType	Type of maintenance
16	CategoryForum	Type of forum entry
17	CustomerProfile	Profile needed for forum participation
18	Forum Topic	Customer topics
19	Topic_Post	Customer Posts
20	ProductImage	Image for products
21	ProductStock	Name of the products
22	ProductStockLevel	Number of stock products
23	ProductStockType	Stock type (Hair/Nail) etc
24	ProductSuppliers	Suppliers of the products
25	AssetCategories	Type of asset
26	Assets	All assets
27	SalonAssets	All of a certain salons assets
28	HairAndBeautySalon	Information held about new and existing salons
29	SalonOpeningTime	Opening hours of the salon
30	EmployeeTraining	Training dates and names
31	TrainingActivity	Training activity needed
32	TrainingCategory	Type of training needed
33	TrainingVideo	Video recorded for training purposes
34	Treatment	Treatment names
35	TreatmentEquipment	Equipment needed for certain treatments
36	TreatmentProductStock	Products needed for certain treatments
37	TreatmentType	Type of treatment (Hair/Nail etc)

3.4 Partial Entity Relationship Diagrams

The following diagrams will be a breakdown of the full Entity Relationship Diagrams [ERD], more detail will be shown. This will allow for an easier breakdown of the relationships between each table, showing the primary and foreign keys used for each table.

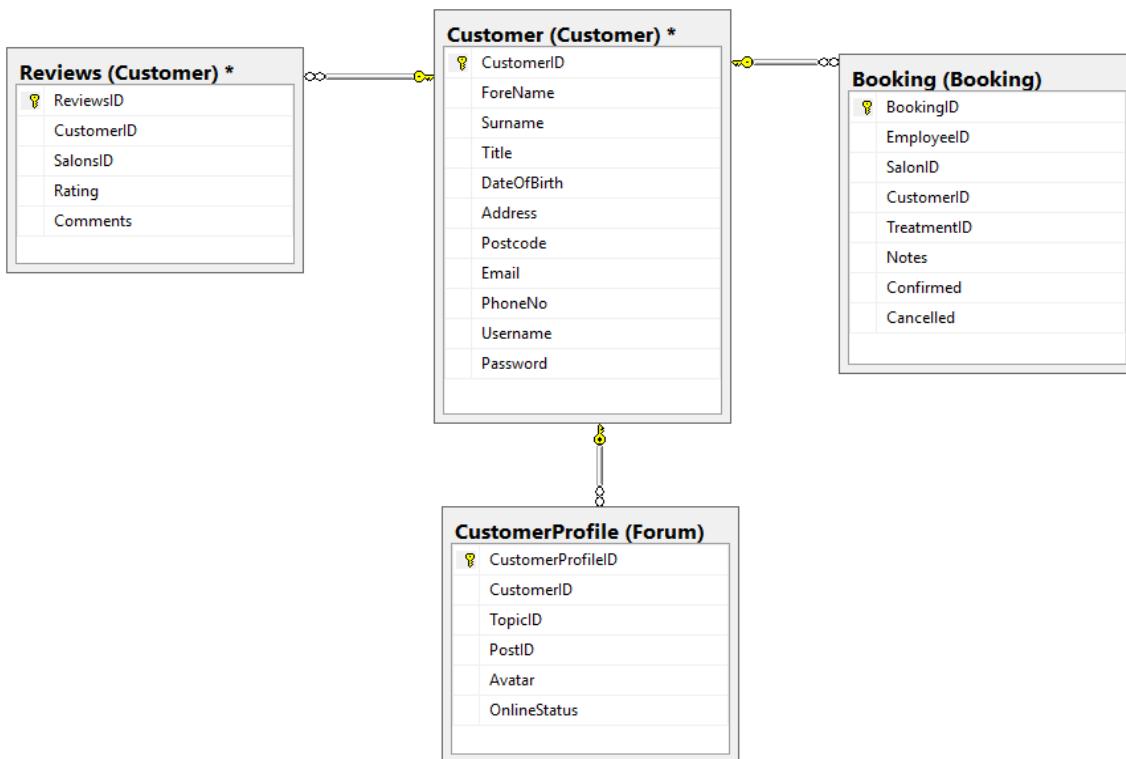
3.4.1 Customers

The following is a partial ERD of the customers that are in the systems database.

It firstly shows that a booking is related to customers, this is through a one to many relationship. This will then show which customer has which booking through the Booking table holding the CustomerID record.

It shows the relationship between Customer and reviews, a salon will see a review and know which customer it is from because of the Reviews table holding the CustomerID record.

Since a customer profile is needed for a customer to access their forum thread, the CustomerID record is placed within the CustomerProfile table.



3.4.2 Employees

The shows the relationships between the tables connected with Employee.

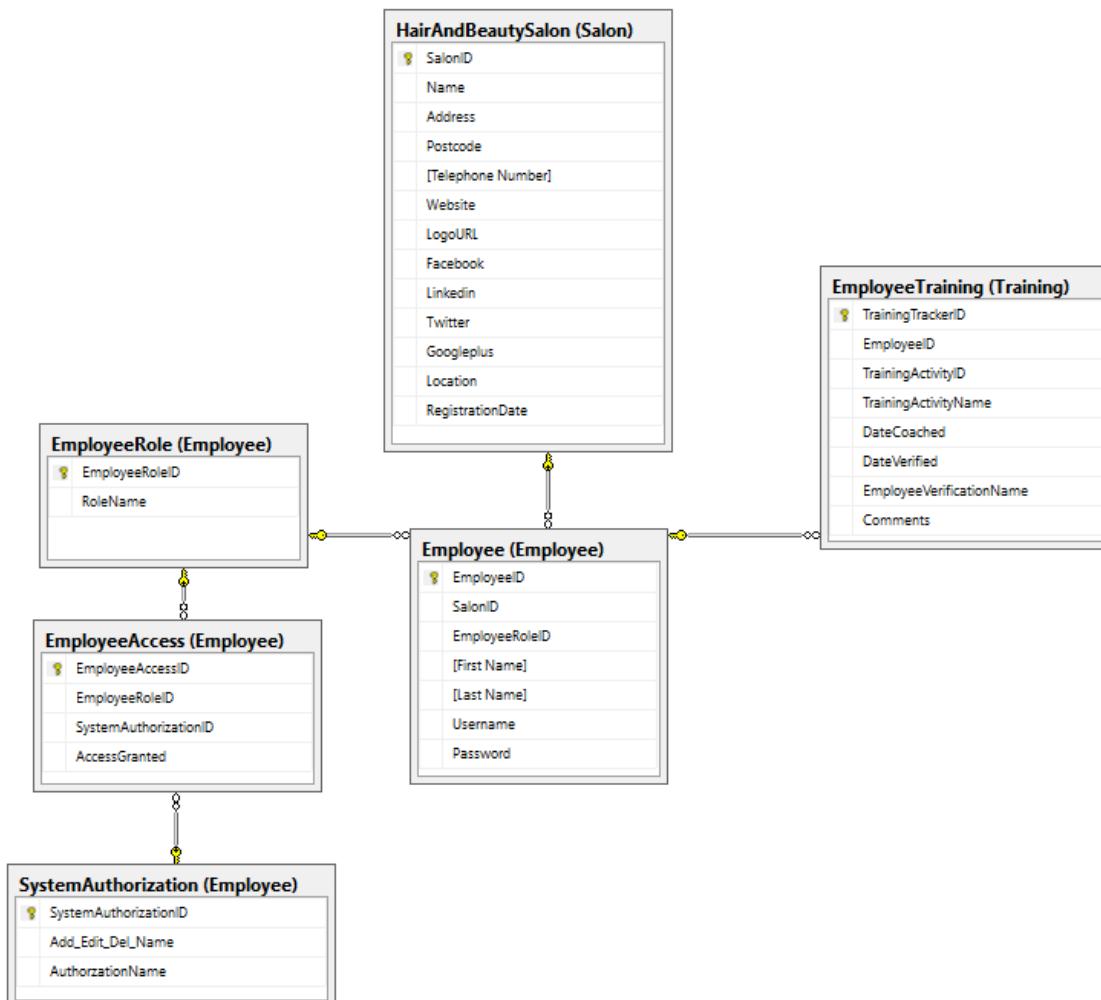
Firstly this partial ERD shows the Employee table association to the HairAndBeautySalon table by holding the SalonID within the Employee table, this is a one to many relationship.

It shows that Employee is related to EmployeeRole table by holding the EmployeeRoleID. The EmployeeRole table stores the names that any employee can have.

The SystemAuthorisation table holds information of a certain area name that an employee can either add, edit or delete.

The EmployeeAccess table holds two foreign keys, EmployeeRoleID and SystemAuthorisationID. The EmployeeAccess defines which roles an employee can access within the system.

EmployeeTraining holds the EmployeeID, this will then store all of the information related to staff training.



3.4.3 Booking

This partial Entity relationship diagram shows the booking tables and all subsequent table related to it.

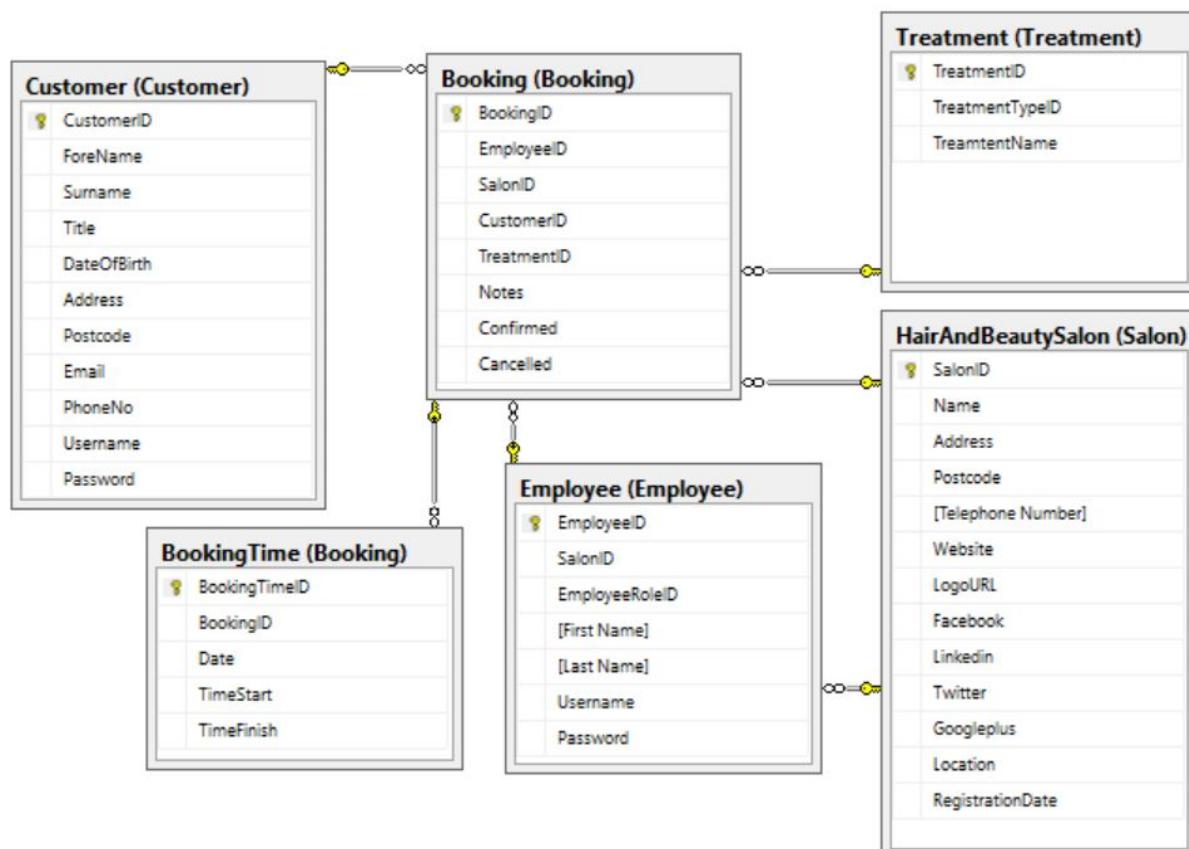
The Booking table stores all the information needed for a booking record.

Firstly the Booking table is related to the Treatment table, this will let the Employee know which treatment is going to take this at this booking.

The Booking table is also related to the Customer table. This will be the customer that has made a booking with a certain salon.

The booking table is also linked to the BookingTime table indicating the time of which a booking is, this is through a one to many relationship.

Booking is also related to HairAndBeautySalon and Employee by holding their primary keys within it. The idea behind this was that the booking would then hold which Employee the booking was going to be carried out by and which salon the booking and employee are in.



3.4.4 Invoice

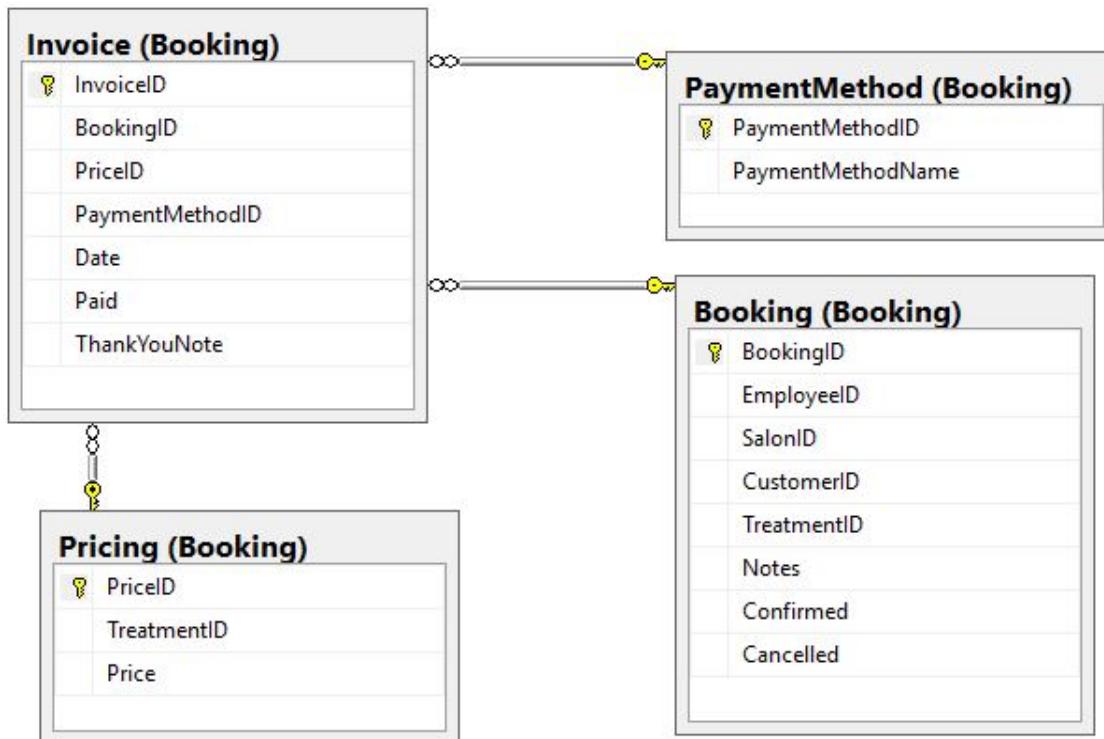
This partial Entity relationship diagram shows the Invoice table and all subsequent tables related to it.

The Invoice table stores all the information needed for the creation of an invoice.

Firstly the Invoice table is related to the PaymentMethod table, this is through a one to many relationship and indicated which payment method the customer selected in order to pay for their booking.

It is also related to the Booking table through a one to many relationship by holding the primary key from the booking table, BookingID.

The Invoice table is also related to the Pricing table through a one to many relationship, indicating the price of a treatment.



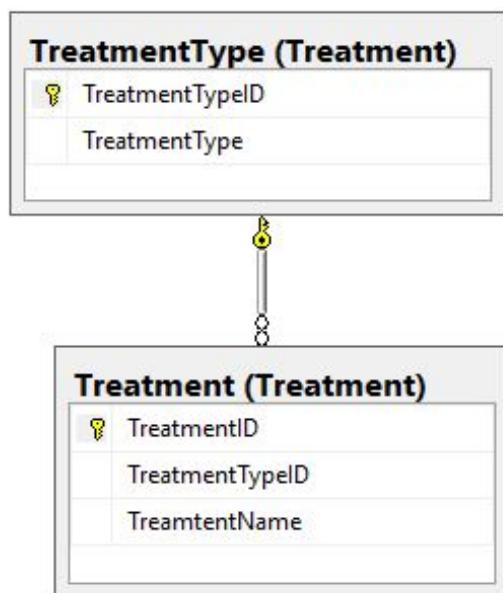
3.4.4 Treatment

This partial Entity relationship diagram shows the Treatment table and all subsequent tables related to it.

The Treatment table stores all the information needed for the treatment records.

The Treatment table holds information regarding the name of the treatment and also contains the primary key from the TreatmentType table.

The Treatment table is related to the TreatmentType table which holds information about the different treatment types.



3.4.5 Products

This partial Entity relationship diagram shows the ProductStock table and all subsequent tables related to it.

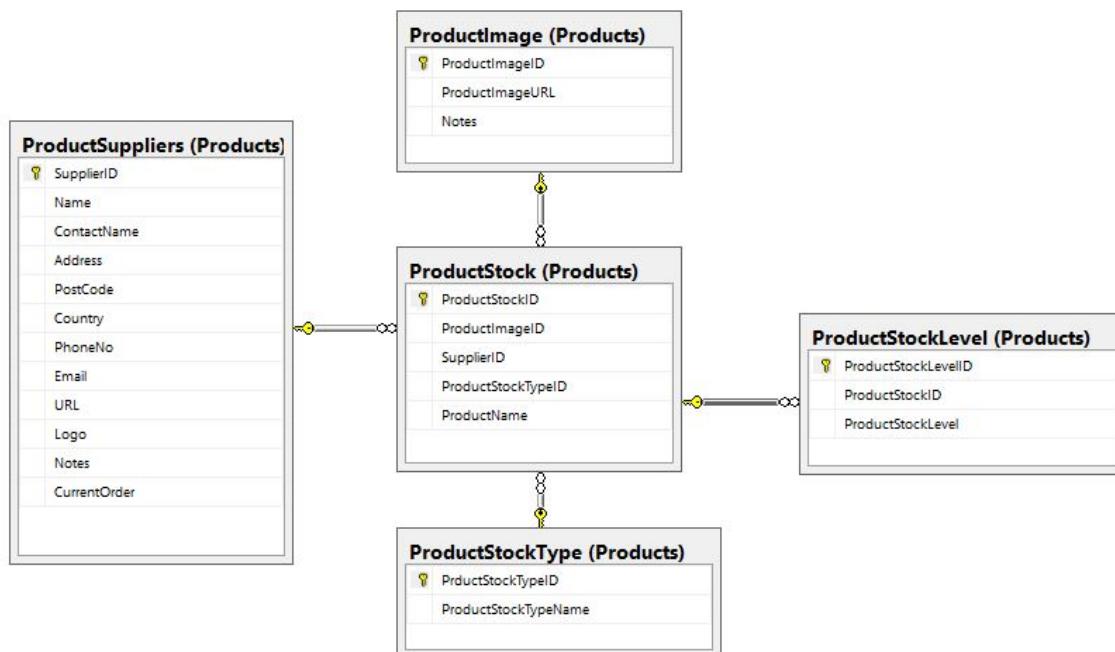
The ProductStock table stores all the information needed for ProductStock records.

Firstly related to the ProductStock table is the ProductStockType, this is what kind of products are going to be used, i.e. Hair / Nail products etc.

Also related to the ProductsStock table is the ProductSuppliers, this is through a one to many relationship where in one stock item can be supplied by many suppliers.

The Products table is also related to the ProductImage table, this is the table that holds images for the products. Customers will also be able to see images of products on their salons page.

Lastly related to the Products table is the ProductStockLevel, this is the stock control table which lets the salon employees know when they need to order more stock.



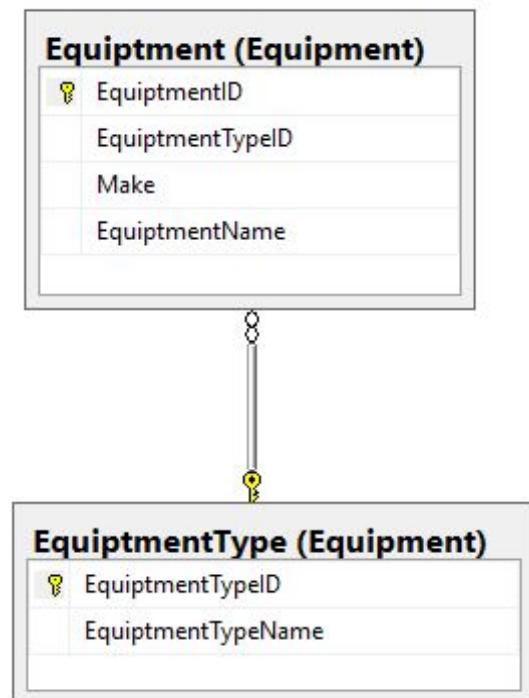
3.4.6 Equipment

This partial Entity relationship diagram shows the Equipment table and all subsequent tables related to it.

The Equipment table stores all the information needed for ProductStock records.

The Equipment table contains the primary key from the EquipmentType table.

The EquipmentType table is related to the Equipment table which holds information about the different types of equipment.



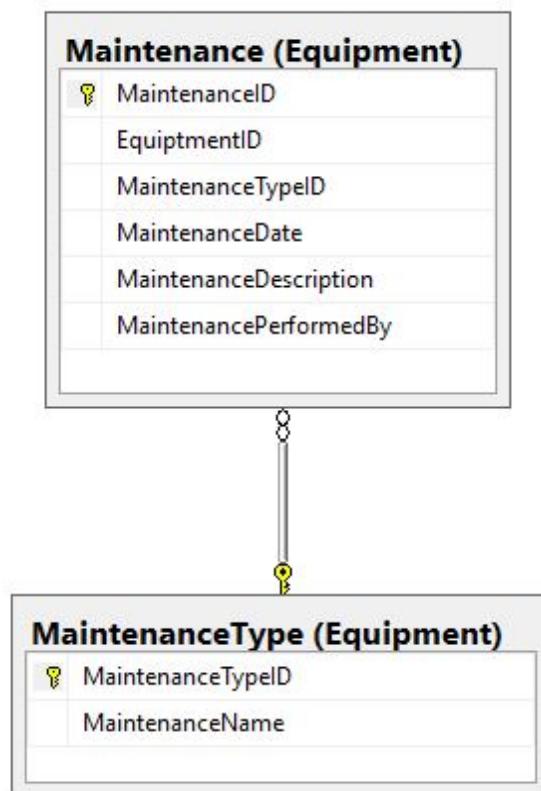
3.4.7 Maintenance

This partial Entity relationship diagram shows the Maintenance table and all subsequent tables related to it.

The Maintenance table stores all the information needed for Maintenance records.

The Maintenance table contains the primary key from the MaintenanceType table.

The MaintenanceType table is related to the Maintenance table which holds information about the different types of maintenance that can be carried out, this relationship is one to many.



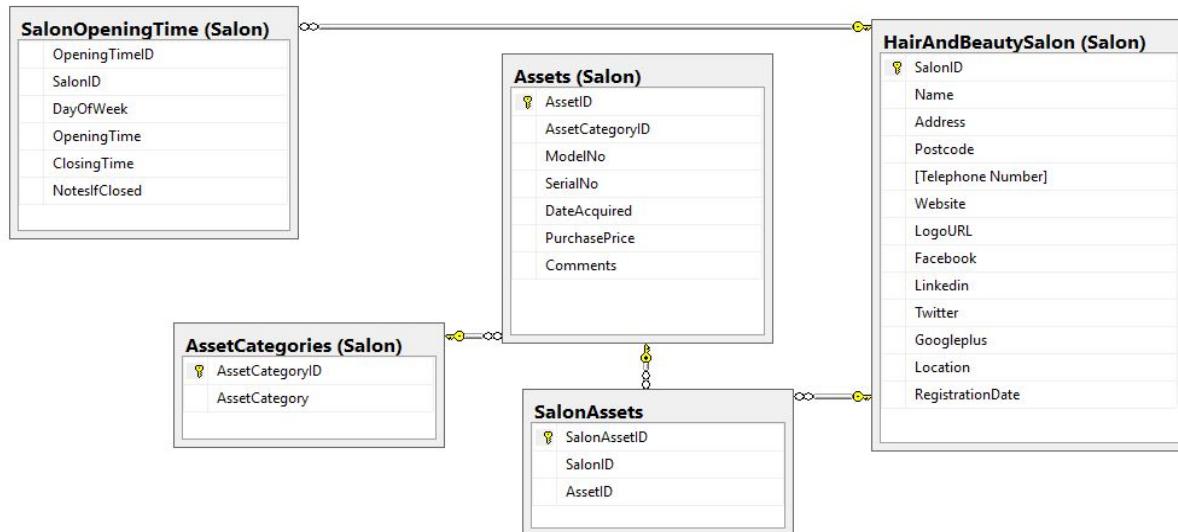
3.4.9 HairAndBeautySalon and Assets

This partial Entity relationship diagram shows the HairAndBeautySalon table and all subsequent tables related to it.

The HairAndBeautySalon table stores all the information needed for a new Salon wanting to sign their business up.

The HairAndBeautySalon table is related to the SalonAssets table, which stores all assets of a certain salon, this table hold the primary keys from both the Asset and HairAndBeautySalon tables. The assets table contains the AssetCategoryID, this table has all of the different categories of which an assets can exist.

Also related to the HairAndBeautySalon is he SalonOpeningTime table, this is a one to many relationship. This holds all of the information regarding a salons opening times.

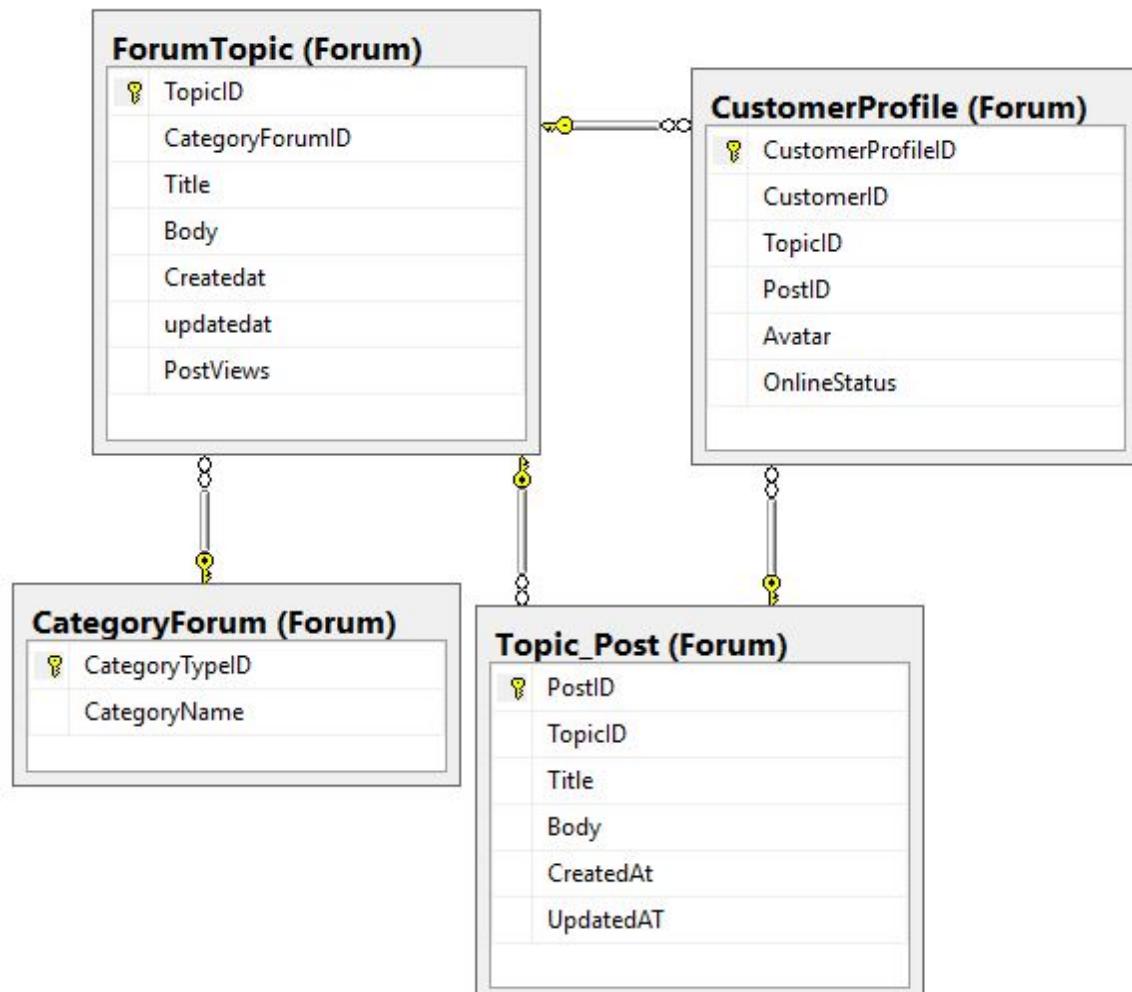


3.4.10 Forum

This partial Entity relationship diagram shows the CustomerProfile table and all subsequent tables related to it.

The CustomerProfile table stores all the information needed that a certain customer has posted in an online forum. This table is related to the ForumTopic table and Topic_Posts table which are one to many relationships since one Customer can create many topics and post many posts. The CustomerProfile table contains the primary keys from the ForumTopic Table and the Topic_Posts table.

The ForumCategory table contains the primary key from the CategoryForum table. This table holds the different categories of which a forum topic can be posted.



3.4.11 Training

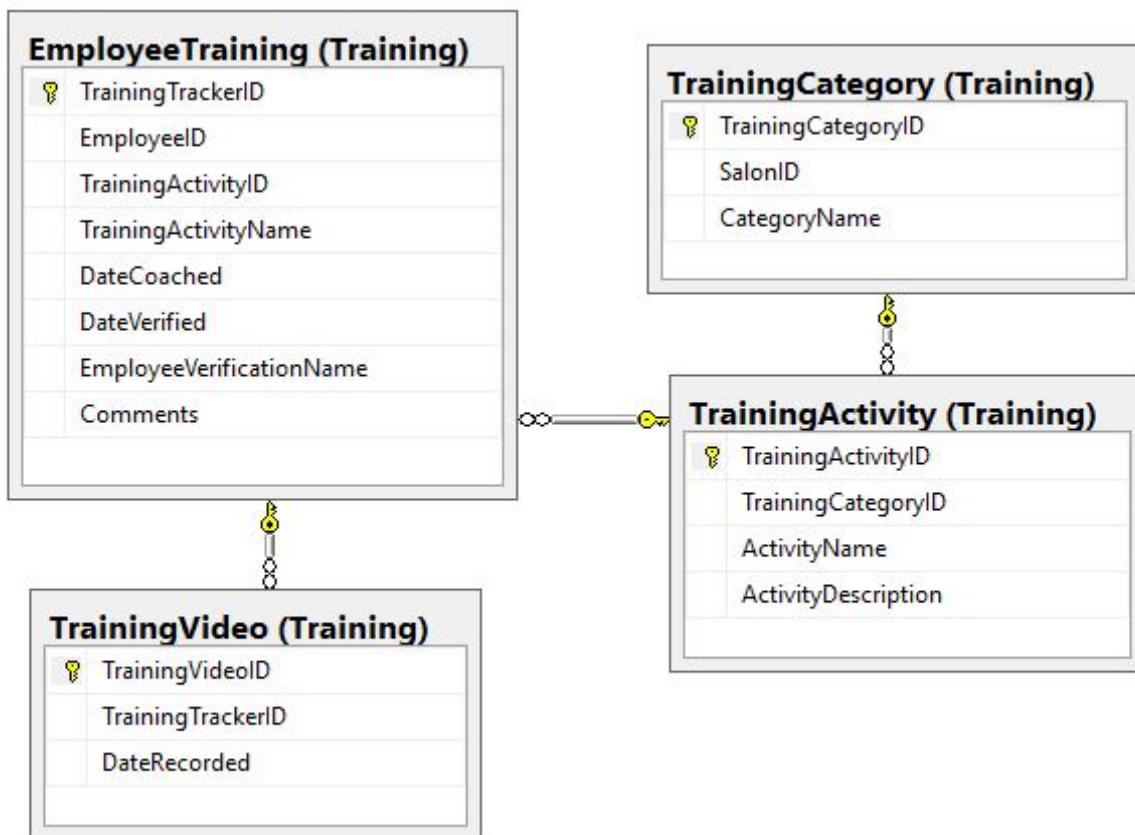
This partial Entity relationship diagram shows the HEmployeeTraining table and all subsequent tables related to it.

The EmployeeTraining table stores all the information needed for a salon to keep track of their employee training days.

The EmployeeTraining table is firstly related to the TrainingVideo table, this table is to record the Employee attempting a certain training activity to monitor their progress.

It is also related to the TrainingActivity, containing its primary key. The Training Activity table stores information of all the training activities that a certain salon may need their employees to complete.

Related to the TrainingActivity table is the TrainingCategory table, this holds all of the different categories of training activities.



3.5 Schemas

These diagrams have been broken down into different schemas. A schema is used to facilitate the separation of database objects (Microsoft, 2008). A schema is the logical way to group database objects. For instance if a database needed certain login permissions, this could be done through a schema so that an employee can only access what they are authorised to access.

In order to place a table into a schema I was required to write a query. The following query was to enter the Booking table into the booking schema. The same code was then used to create all of the schemas, changing the object and schema names.

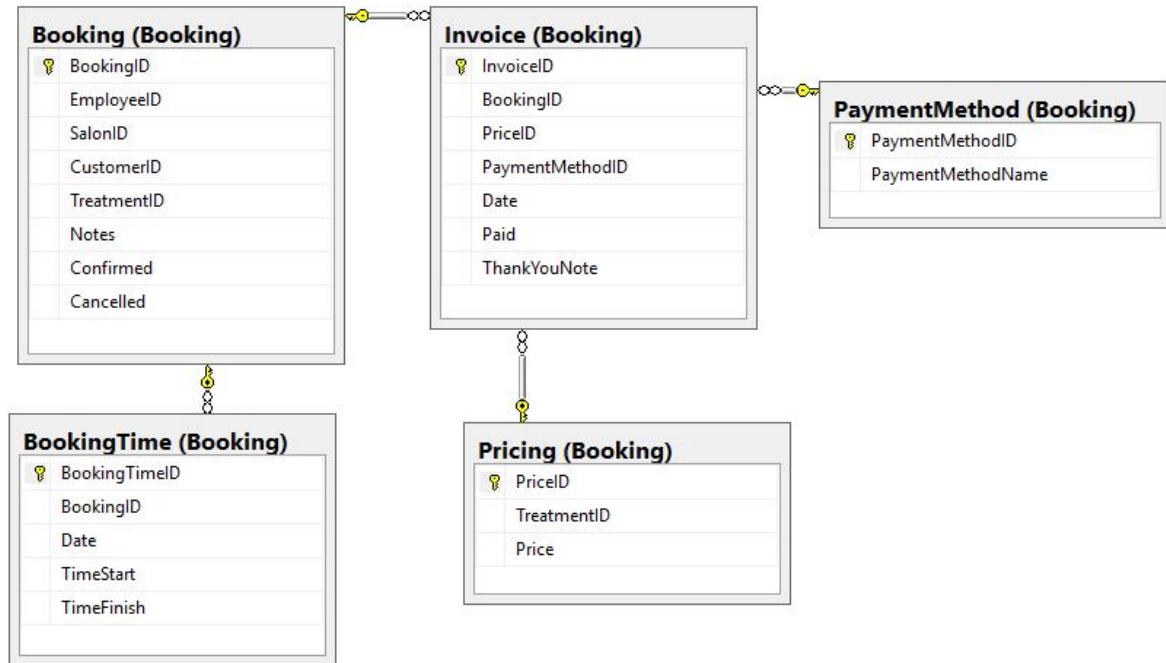
```
USE [Guappo Hair Design]
ALTER SCHEMA Booking TRANSFER OBJECT:: dbo.Booking;
GO
```

I created the following schemas:

Number	Schema
1	Booking
2	Customer
3	Salon
4	Employee
5	Equipment
6	Products
7	Forum
8	Training
9	Treatment

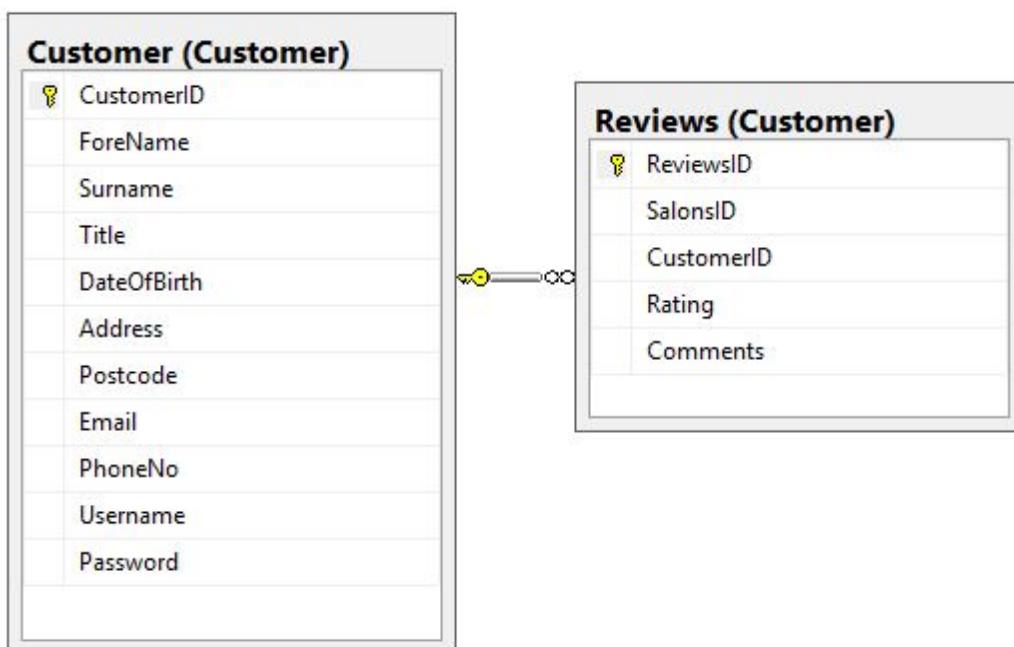
3.5.1 Booking Schema

This is the booking schema, It is the booking table and all tables related to a booking.



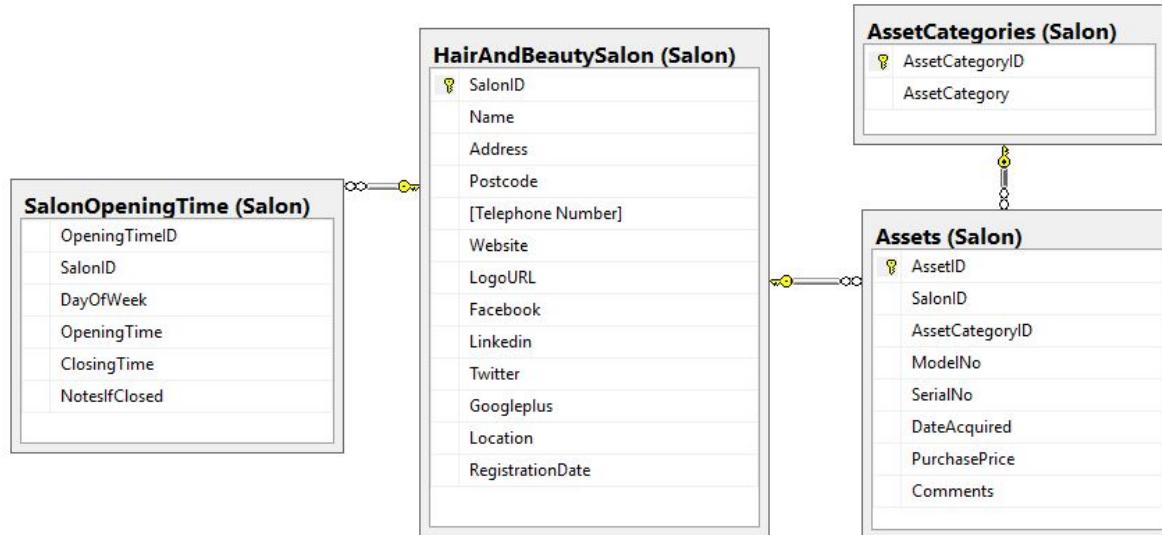
3.5.2 Customer Schema

This is the Customer schema, I put both Customer and Reviews into the Customer schema.



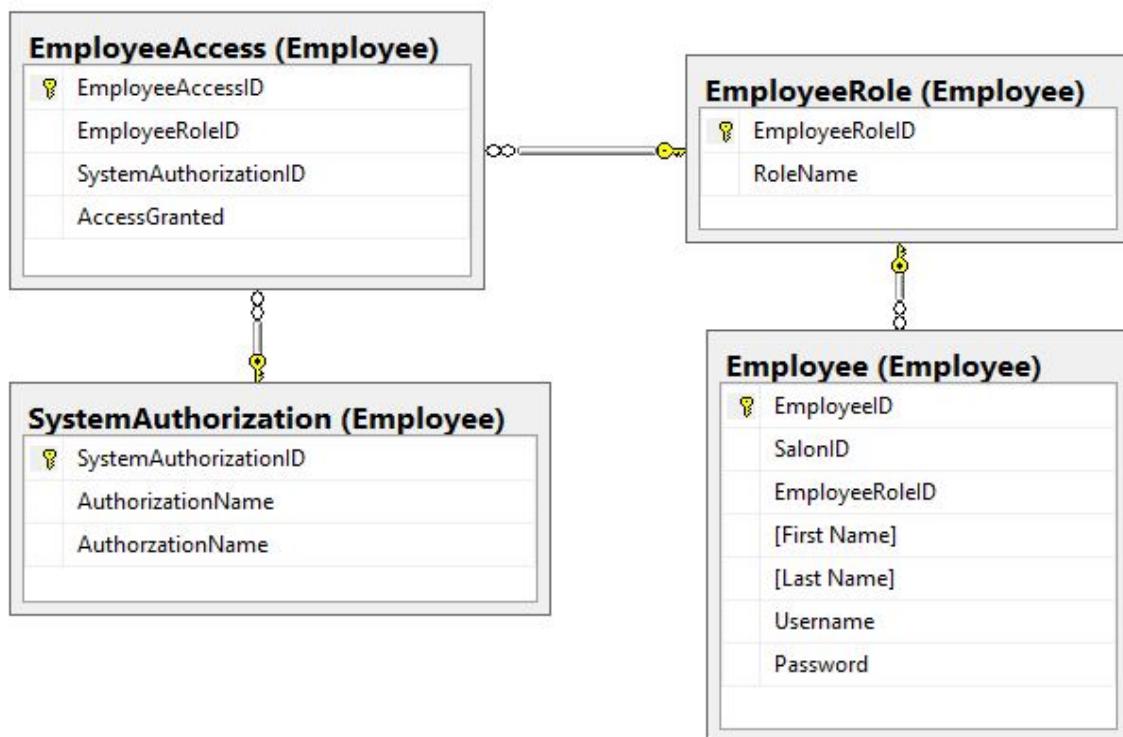
3.5.3 Salon Schema

This is the salon schema, it is everything tied directly to the HairAndBeautySalon table.



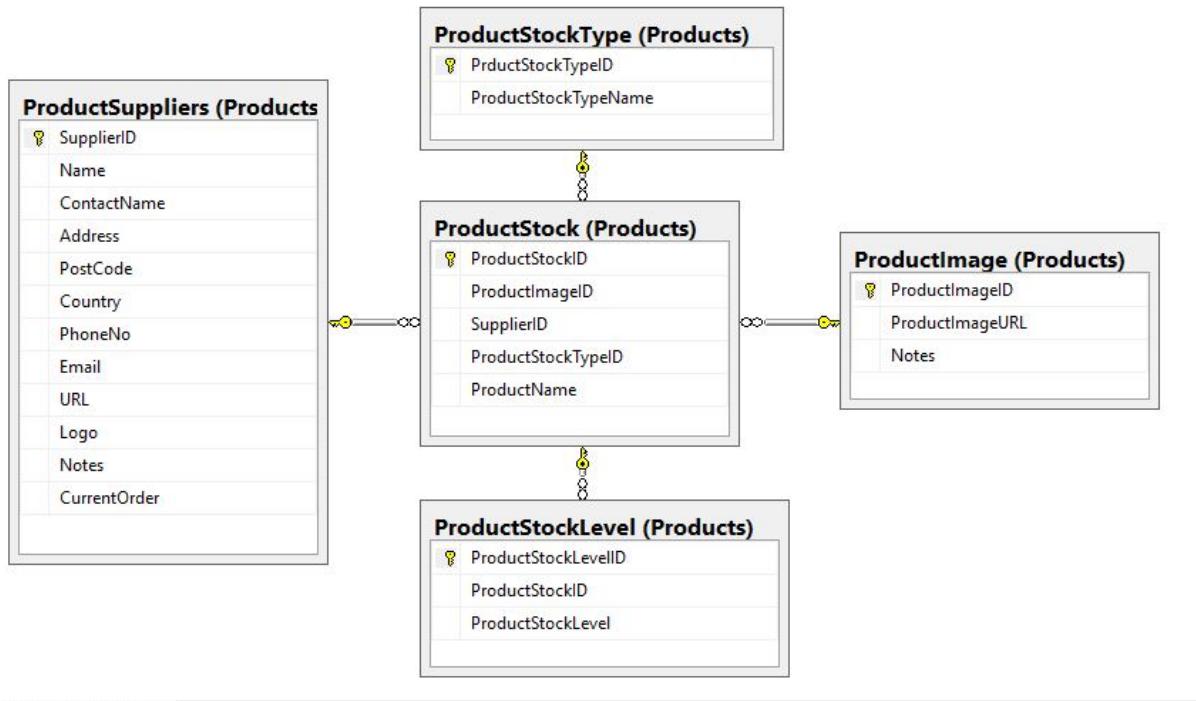
3.5.4 Employee Schema

This is the Employee schema, It is the Employee table and its relative tables.



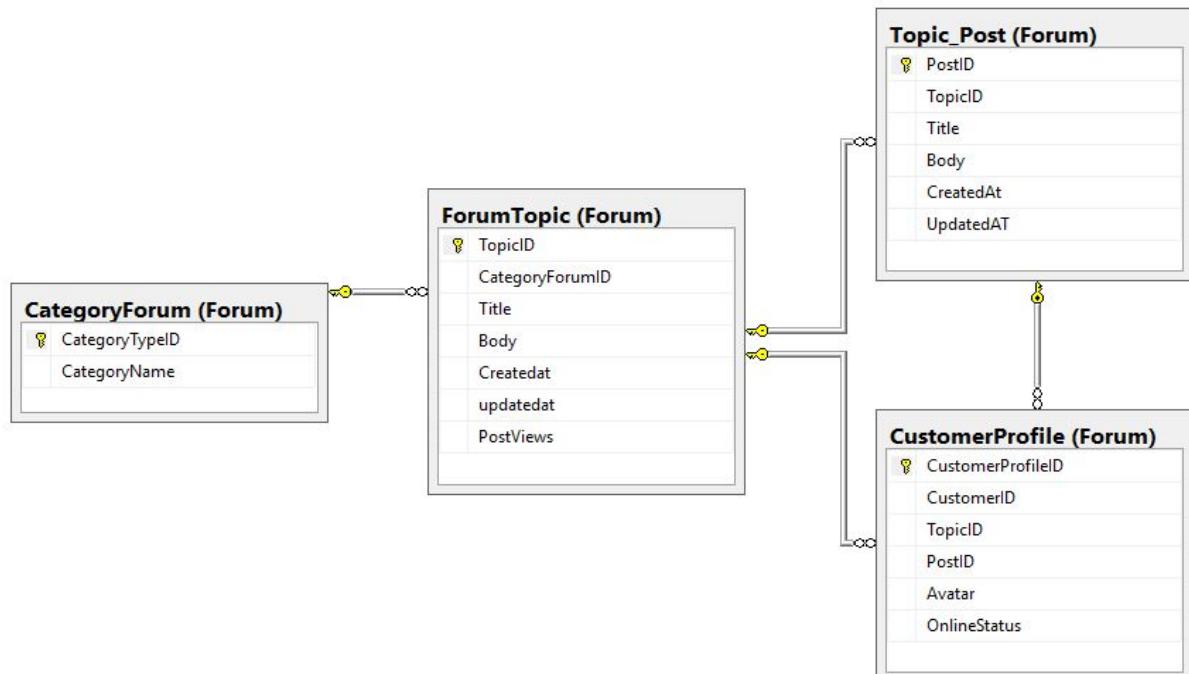
3.5.5 Products Schema

This is the Product schema, it holds all information needed for a salons product records.



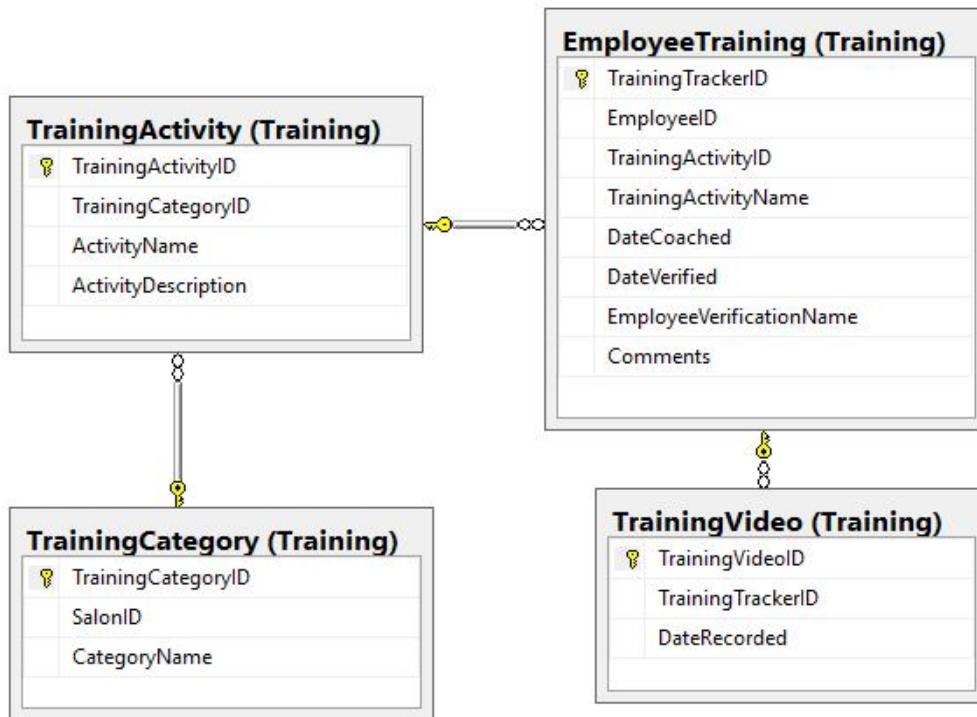
3.5.6 Forum Schema

This is the Forum schema, it holds all of the tables and data relevant to an application's forum.



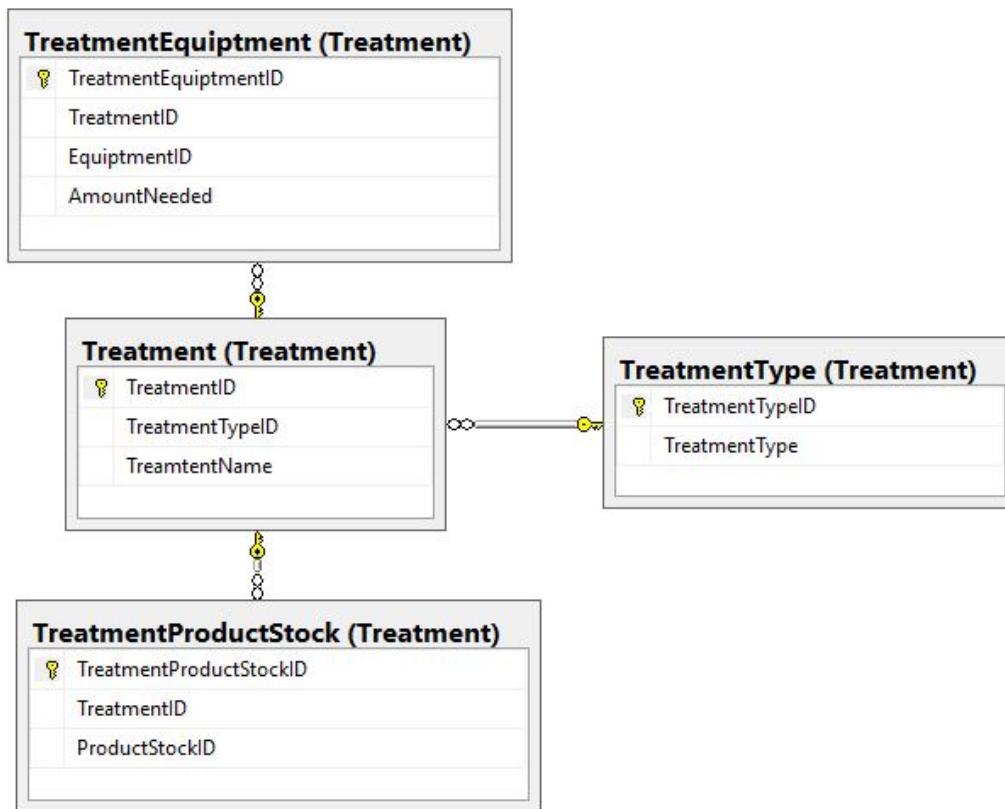
3.5.7 Training Schema

This is the training schema, it is all tables that hold records needed for staff training.



3.5.8 Treatment Schema

This is the treatment schema, it is all the tables relating to a salons treatments.



4.1 Table Descriptions

The following section will run through the design aspects of each table including what data types were used. It will also show some data within the tables.

4.1.1 Booking

Primary Key:

- BookingID

Foreign Keys:

- EmployeeID (Employee table)
- SalonID (HairAndBeautySalon table)
- CustomerID (Customer table)
- TreatmentID (Treatment table)

Data: This is the Booking table, it is used to hold information regarding a salons booking list. Datatypes include int, nvarchar and bit. The fields with data type 'int' have to be int in this case as all relevant fields are primary and foreign keys which by default have to be of data type int. The notes [nvarchar] column is set to max so long notes can be held. Data type 'bit' is either 0 or 1, 0 being false and 1 being true. Notes column is allowed nulls simply because there is no need for notes for every booking.

	Column Name	Data Type	Allow Nulls
🔑	BookingID	int	<input type="checkbox"/>
	EmployeeID	int	<input type="checkbox"/>
	SalonID	int	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
	TreatmentID	int	<input type="checkbox"/>
	Notes	nvarchar(MAX)	<input checked="" type="checkbox"/>
	Confirmed	bit	<input type="checkbox"/>
	Cancelled	bit	<input type="checkbox"/>

	BookingID	EmployeeID	SalonID	CustomerID	TreatmentID	Notes	Confirmed	Cancelled
	1	5	1	6	1	Fussy Custome...	True	False
	2	1	1	1	11	Hopefully wont...	False	False
▶	3	4	1	5	12	NULL	True	True
	4	2	1	2	6	First trial of the ...	True	False
	5	3	1	3	5	Complete re-co...	True	False
	6	6	2	4	7	NULL	True	False

4.1.2 BookingTime

Primary Key:

- BookingTimeID

Foreign Keys:

- BookingID (Booking table)

Data: This is the BookingTime table, it is used to store information regarding the date and time of a booking. Datatypes include, int, date and time(7). In this table there are no nulls allowed as all data is needed. The BookingID is the Primary key from the Booking table, this is needed as this will bind the booking to the relevant booking time.

	Column Name	Data Type	Allow Nulls
?	BookingTimeID	int	<input type="checkbox"/>
	BookingID	int	<input type="checkbox"/>
	Date	date	<input type="checkbox"/>
	TimeStart	time(7)	<input type="checkbox"/>
	TimeFinish	time(7)	<input type="checkbox"/>

	BookingTimeID	BookingID	Date	TimeStart	TimeFinish
1	1		2017-02-12	11:15:00	12:00:00
2	2		2017-02-12	12:15:00	13:00:00
3	3		2017-03-12	09:00:00	10:00:00
4	4		2017-02-27	07:30:00	09:00:00
5	5		2017-03-17	15:00:00	17:00:00
6	6		2017-03-18	11:00:00	13:00:00

4.1.3 Invoice

Primary Key:

- InvoiceID

Foreign Keys:

- Booking (Booking table)
- PriceID (Pricing table)
- PaymentMethodID (PaymentMethod table)

Data: This is the Invoice table, it is used to hold data for the invoice to be emailed to the customer, or as a printed receipt. Datatypes used are int, datetime, bit and nvarchar. In this instance bit is used to capture whether the user has paid their bill. Both the BookingID and PriceID are used as foreign keys since the price and booking are imperative to the invoice.

	Column Name	Data Type	Allow Nulls
!	InvoiceID	int	<input type="checkbox"/>
	BookingID	int	<input type="checkbox"/>
	PriceID	int	<input type="checkbox"/>
	PaymentMethodID	int	<input type="checkbox"/>
	Date	datetime	<input type="checkbox"/>
	Paid	bit	<input type="checkbox"/>
	ThankYouNote	nvarchar(20)	<input checked="" type="checkbox"/>

	InvoiceID	BookingID	PriceID	PaymentMethodID	Date	Paid	ThankYouNote
1	1	1	1	5	2017-02-12 00:00:00.000	True	Paid With Thanks!
2	2	2	11	2	2017-02-12 00:00:00.000	True	Paid With Thanks!
3	3	3	12	1	2017-03-12 00:00:00.000	True	Paid With Thanks!
4	4	4	6	5	2017-02-27 00:00:00.000	False	NULL
5	5	5	5	4	2017-03-17 00:00:00.000	True	Paid With Thanks!
6	6	6	7	3	2017-03-18 00:00:00.000	True	Paid With Thanks!

4.1.5 PaymentMethod

Primary Key:

- PaymentMethodID

Data: This is the PaymentMethod table, it is used to hold data for the regarding the payment method of the Customer. Nvarchar datatype is used to hold the payment name.

	Column Name	Data Type	Allow Nulls
PK	PaymentMethodID	int	<input type="checkbox"/>
	PaymentMethodName	nvarchar(25)	<input type="checkbox"/>

	PaymentMeth...	PaymentMeth...
1		Cash
2		Debit Card
3		Credit Card
4		Gift Card
5		PayPal

4.1.6 Pricing

Primary Key:

- PriceID

Foreign Keys:

- TreatmentID (Treatment table)

Data: This is the pricing table, it is used to hold data regarding the prices of data. I decided to use nvarchar as the datatype to hold the prices, this is because I was getting errors when tying money and smallmoney datatypes.

	Column Name	Data Type	Allow Nulls
PK	PriceID	int	<input type="checkbox"/>
	TreatmentID	int	<input type="checkbox"/>
	Price	nvarchar(50)	<input type="checkbox"/>

	PriceID	TreatmentID	Price
1	1	1	10.99
2	2	2	10.99
3	3	3	15.99
4	4	4	9.99
5	5	5	39.99
6	6	6	15.99
7	7	7	9.99
8	8	8	29.99
9	9	9	75.00
10	10	10	100 p/h
11	11	11	100 p/h
12	12	12	40.00

4.1.6 Customer

Primary Key:

- CustomerID

Data: This is the Customer table, it is used to hold customer data. As customers will be able to login to the site and search for Salons in their area, it is imperative that they have a Username and Password, they have both been set to nvarchar(20), ensuring that no one can have anything more lengthy than that.

	Column Name	Data Type	Allow Nulls
	CustomerID	int	<input type="checkbox"/>
	ForeName	nvarchar(50)	<input type="checkbox"/>
	Surname	nvarchar(50)	<input type="checkbox"/>
	Title	nvarchar(50)	<input checked="" type="checkbox"/>
	DateOfBirth	datetime	<input type="checkbox"/>
	Address	nvarchar(MAX)	<input type="checkbox"/>
	Postcode	nvarchar(10)	<input type="checkbox"/>
	Email	nvarchar(MAX)	<input type="checkbox"/>
	PhoneNo	nvarchar(50)	<input type="checkbox"/>
	Username	nvarchar(20)	<input type="checkbox"/>
	Password	nvarchar(20)	<input type="checkbox"/>

	CustomerID	ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email	PhoneNo	Username	Password
1	Adam	Smith	Dr	1988-07-29 00:00:00.000	17 Rosebay Close, Shotton	DH6 2LH	Smith06@hotmail.co.uk	07824698866	Smith06@hotmail.co.uk	ApplyMacintosh24!	
2	James	Coils	NULL	1976-09-30 00:00:00.000	29 Hawthorne crescent, Trimdon	SR8 2LA	James.Coils@yahoo.com	07824978655	J.Coils	CaseyNeistat!	
3	Helen	Ferguson	Miss	1992-03-16 00:00:00.000	47 Lilac Terrace,Horden	E6 4GO	FergieFergie@gmail.com	0786492349	FergieFergie@gmail.com	BlackEyedPeas<>	
4	Ruth	Flemming	Mrs	1964-03-28 00:00:00.000	45 Grey Street, Ingleby Barwick	TS1 4PU	Fleming_Ruth@Gmail.com	01915264009	Fleming.Ruth	QueenElizabeth1!	
5	Latisha	Brown	Mrs	1973-05-20 00:00:00.000	269 North Hyde La, Hounslow, Southal	UB2 5TE	Latisha73@hotmail.co.uk	07896548955	L.Brown73	Gretzky99	
6	Elaine	Simpson	Mrs	1982-06-02 00:00:00.000	48 Dawson Road, Wingate	DH5 P89	Simpson1982@gmail.com	07896547866	Simpson_Elaine	Arg3nt1Na	
7	Ted	Grant	Mr	1983-02-02 00:00:00.000	81 Wellfield Crescent	SR4 9PL	Granty_1212@hotmail.co.uk	07824665565	Granty_1212	Passw0rd!	
8	Steven	Blakey	Mr	1985-08-08 00:00:00.000	21 Shotton View, Mount Pleasant	M3 8PL	Blakey1985@yahoo.co.uk	07862486682	Blakey_Senior	834_242!!	
9	Kirsty	Fishwick	Miss	1992-02-02 00:00:00.000	Wessington Way, Peterlee	SR3 9PH	Kirsty.Fishwick1992@yahoo.com	05267256276	Fishers_Kirsty	JohnWick!	
10	Megan	Slater	Miss	1992-12-25 00:00:00.000	25 Langley Park, Durham	DH1 3NU	Megan.Slater@hotmail.com	07896242233	Megan.Slater	Slater_Megan1992	
11	Jacky	Stansfield	Miss	1964-05-05 00:00:00.000	67 Front Street, Coxhoe, Durham	DH2 3PU	Jacky.Stansfield@bt.com	07899594668	Jacky.Stansfield	Dominican_Repub99!	
12	Carly	Mitchell	Mrs	1988-08-06 00:00:00.000	32 Victoria Street, South Hetton	DH4 7PH	Carly.cm88@hotmail.co.uk	07845545872	Carly88.Mitchell	Dublin_Guiness34!	

4.1.7 Reviews

Primary Key:

- ReviewsID

Foreign Keys:

- SalonID (HairAndBeautySalon table)
- CustomerID (Customer table)

Data: This is the reviews table, it holds the reviews that the customers have written about their salon. No nulls are allowed in this table as all data is needed. It uses the SalonID and CustomerID foreign key constraint because the salon, who the review is about, and customer, who wrote the review, need to be identified.

	Column Name	Data Type	Allow Nulls
KEY	ReviewsID	int	<input type="checkbox"/>
	SalonsID	int	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
	Rating	int	<input type="checkbox"/>
	Comments	nvarchar(MAX)	<input type="checkbox"/>

	ReviewsID	SalonsID	CustomerID	Rating	Comments
▶	1	6	1	9	Really good, pleased with my hair and will certainly be booking again!
	2	4	2	5	Please with my treatment but the staff were not very friendly.
	3	3	3	8	Certainly will not both with Miss Nails Again that is for certain.
	4	5	4	7	Awesome love my new tattoo
	5	2	5	3	MAGNIFIQUE!!!
	6	1	6	10	Thoroughly enjoyed it, the staff treated me like royalty.

4.1.8 Employee

Primary Key:

- EmployeeID

Foreign Keys:

- SalonID (HairAndBeautySalon table)
- EmployeeRoleID (EmployeeRole table)

Data: This is the Employee table, it is used to hold employee data. The EmployeeRoleID foreign key constraint is used to assign different roles to staff. As employees will have their own dashboard, they need to be able to log into their account, which is why there is username and password fields.

	Column Name	Data Type	Allow Nulls
1	EmployeeID	int	<input type="checkbox"/>
	SalonID	int	<input type="checkbox"/>
	EmployeeRoleID	int	<input type="checkbox"/>
	[First Name]	nvarchar(MAX)	<input type="checkbox"/>
	[Last Name]	nvarchar(MAX)	<input type="checkbox"/>
	Username	nvarchar(20)	<input type="checkbox"/>
	Password	nvarchar(20)	<input type="checkbox"/>

	EmployeeID	SalonID	EmployeeRoleID	First Name	Last Name	Username	Password
▶	1	1	1	Phil	Unsworth	P.Unsworth	Ph1lUnsy1!
	2	1	2	Sam	Unsworth	S.Unsworth	Chicken123!
	3	1	3	Helen	Wilkinson	H.Wilkinson	Sm1thy1234!
	4	1	4	Brogham	Garfield	B.Garfield	Passw0rd!
	5	1	5	Karl	Knox	K.Knox	MaX26LaB
	6	2	1	Barry	Smith	B.Smith	Casp2906189
	7	3	2	Kayleigh	Tiplady	K.Tiplady	SamiPod
	8	4	3	Ian	Wilkinson	I.Wilkinson	ShadForth783
	9	5	4	Elaine	Pairs	E.Pears	AmazOn!
	10	6	5	Sophie	Griffiths	S.G Griffiths	P0LOOMP56

4.1.9 EmployeeAccess

Primary Key:

- EmployeeAccessID

Foreign Keys:

- EmployeeRoleID (EmployeeRole table)
- SystemAuthorisationID (SystemAuthorisation table)

Data: This is the EmployeeAccess table, it uses datatype 'bit' [true or false] to grant employees access to certain areas of the system, using the SystemAuthorisationID as a foreign key constraint.

	Column Name	Data Type	Allow Nulls
🔑	EmployeeAccessID	int	<input type="checkbox"/>
	EmployeeRoleID	int	<input type="checkbox"/>
	SystemAuthorizationID	int	<input type="checkbox"/>
	AccessGranted	bit	<input type="checkbox"/>

	EmployeeAccessID	EmployeeRoleID	SystemAuthorizationID	AccessGranted
1	1	1	1	True
2	2	1	1	True
3	3	1	1	True
4	4	1	1	True
5	5	1	1	True
6	1	2	2	True
7	2	2	2	True
8	3	2	2	True
9	4	2	2	True
10	5	2	2	True
11	1	3	3	True
12	2	3	3	True
13	3	3	3	True
14	4	3	3	False
15	5	3	3	False
16	1	4	4	True
17	2	4	4	True
18	3	4	4	True
19	4	4	4	False
20	5	4	4	False

4.1.10 EmployeeRole

Primary Key:

- EmployeeRoleID

Data: This is the EmployeeRole table, it is used to hold roles names. These role names will be assigned to employees. This is using a five role system which should cover all employees, although the salon owner (EmployeeRoleID = 1) will be able to add new roles.

	Column Name	Data Type	Allow Nulls
!	EmployeeRoleID	int	<input type="checkbox"/>
	RoleName	nvarchar(30)	<input type="checkbox"/>

	EmployeeRoleID	RoleName
▶	1	Owner
	2	Manager
	3	Senior
	4	Mid Level
	5	Junior

4.1.11 SystemAuthorisation

Primary Key:

- SystemAuthorizationID

Data: This is the SystemAuthorization table, it holds data for the names of the areas which employees will be given access too. Depending on the staff hierarchy, an employee will be able to add, edit or delete within those areas.

	Column Name	Data Type	Allow Nulls
1	SystemAuthorizationID	int	<input type="checkbox"/>
	Add_Edit_Del	nvarchar(50)	<input type="checkbox"/>
	AuthorizationName	nvarchar(50)	<input type="checkbox"/>

	SystemAuthorizationID	Add_Edit_Del	AuthorizationName
▶	1	CreateCustomer	Customer
	2	UpdateCustomer	Customer
	3	DeleteCustomer	Customer
	4	CreateSupplier	Supplier
	5	UpdateSupplier	Supplier
	6	DeleteSupplier	Supplier
	7	CreateSalon	Salon
	8	UpdateSalon	Salon
	9	DeleteSalon	Salon
	10	CreateEmployee	Employee
	11	UpdateEmployee	Employee
	12	DeleteEmployee	Employee
	13	CreateStock	Stock
	14	UpdateStock	Stock
	15	DeleteStock	Stock
	16	CreateTreatment	Treatments
	17	UpdateTreatment	Treatments
	18	DeleteTreatment	Treatments
	19	CreateInvoice	Invoice
	20	UpdateInvoice	Invoice
	21	DeleteInvoice	Invoice

4.1.12 Equipment

Primary Key:

- EquipmentID

Foreign Keys:

- EquipmentTypeID (EquipmentType table)

Data: This is the equipment table, it holds the names and make of the equipment they use regularly in their possession. The Asset table manages all assets. This table also holds the type of equipment since it contains the primary key from the EquipmentType table.

	Column Name	Data Type	Allow Nulls
1	EquipmentID	int	<input type="checkbox"/>
	EquipmentTypeID	int	<input type="checkbox"/>
	Make	nvarchar(50)	<input type="checkbox"/>
	EquipmentName	nvarchar(50)	<input type="checkbox"/>

	EquipmentID	EquipmentTypeID	Make	EquipmentName
▶	1	1	Wahl	Clippers
	2	1	Diva	Hairdryers
	3	1	Cloud9	Tongs
	4	1	Cloud9	Straightners
	5	1	Jaguar	Scissors
	6	2	Rio	UV Polish Lamp
	7	2	CND	Nail File
	8	2	CND	Nail Brush
	9	3	Hive	Wax Pot
	10	3	Option	Wax Stips
	11	4	St. Tropez	Spray Gun
	12	4	St. Tropez	Tanning Tent
	13	5	Erikson	Tattoo Pen

4.1.13 EquipmentType

Primary Key:

- EquipmentTypeID

Data: This is the EquipmentType table, it stores the names of different categories for equipment. This is broken down into different salon needs.

	Column Name	Data Type	Allow Nulls
!	EquipmentTypeID	int	<input type="checkbox"/>
	EquipmentTypeName	nvarchar(50)	<input type="checkbox"/>

	EquipmentTypeID	EquipmentTypeName
▶	1	HairEquipment
	2	NailEquipment
	3	EyebrowEquipment
	4	TanningEquipment
	5	Tattoo

4.1.14 Maintenance

Primary Key:

- MaintenanceID

Foreign Keys:

- EquipmentID (Equipment table)
- MaintenanceTypeID (MaintenanceType table)

Data: This is the maintenance table, it is used to records the maintenance of all equipment. Both the maintenance type and equipment are needed to be identified using the foreign key constraints to both the Equipment table and the MaintenanceType table.

The date of maintenance and maintenance are recorded along with the name of the person that carried out the maintenance.

	Column Name	Data Type	Allow Nulls
?	MaintenanceID	int	<input type="checkbox"/>
	EquipmentID	int	<input type="checkbox"/>
	MaintenanceTypeID	int	<input type="checkbox"/>
	MaintenanceDate	datetime	<input type="checkbox"/>
	MaintenanceDescription	nvarchar(MAX)	<input type="checkbox"/>
	MaintenancePerformedBy	nvarchar(50)	<input type="checkbox"/>

	MaintenanceID	EquipmentID	MaintenanceTypeID	MaintenanceDate	MaintenanceDescription	MaintenancePerformedBy
▶	1	1	3	2017-12-14 00:00:00.000	Faulty, new equipment needed	Ken Chegworth
	2	2	1	2016-12-14 00:00:00.000	No problems.	Ken Chegworth
	3	3	2	2016-12-14 00:00:00.000	Power shortage, fuse repaired.	Ken Chegworth
	4	4	1	2017-12-14 00:00:00.000	No problems at all.	Ken Chegworth
	5	5	2	2017-12-14 00:00:00.000	Sharpened and returned.	Ken Chegworth
	6	6	3	2017-12-14 00:00:00.000	Faulty, new Polish Lamp Needed	Ken Chegworth

4.1.15 MaintenanceType

Primary Key:

- MaintenanceTypeID

Data: This is the MaintenanceType table, it stores the names for the different categories of maintenance.

	Column Name	Data Type	Allow Nulls
PK	MaintenanceTypeID	int	<input type="checkbox"/>
	MaintenanceName	nvarchar(MAX)	<input type="checkbox"/>

	MaintenanceTypeID	MaintenanceName
▶	1	Full Maintenance
	2	Repair
	3	Faulty

4.1.16 CategoryForum

Primary Key:

- CategoryTypeID

Data: This is the CategoryForum table, it stores the names for the different categories that a customer can post a topic. It is broke down into different hair and beauty sectors.

	Column Name	Data Type	Allow Nulls
?	CategoryTypeID	int	<input type="checkbox"/>
	CategoryName	nvarchar(MAX)	<input type="checkbox"/>

	CategoryTypeID	CategoryName
	1	Mens Hair
	2	Ladies Hair
	3	General Styling
	4	Nail Polish
	5	Nail Art
	6	Tanning Produ...
	7	Tanning Enquiri...
	8	Tattoo Healing
	9	General Beauty
	10	General

4.1.17 CustomerProfile

Primary Key:

- CustomerProfileID

Foreign Keys:

- CustomerID (Customer table)
- Topic ID (ForumTopic table)
- PostID (Topic_Post table)

Data: This is the Customer Profile table, its purpose is to give the customer a forum presence. Once entered the forum the customer can add their avatar image. A Customer can then create a topic, and post to a topic thread. The system will also show which customers are online using datatype 'Bit'.

	Column Name	Data Type	Allow Nulls
1	CustomerProfileID	int	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
	TopicID	int	<input checked="" type="checkbox"/>
	PostID	int	<input checked="" type="checkbox"/>
	Avatar	image	<input checked="" type="checkbox"/>
	OnlineStatus	bit	<input type="checkbox"/>

	CustomerProfi...	CustomerID	TopicID	PostID	Avatar	OnlineStatus
►	1	1	1	NULL	NULL	True
	2	2	3	NULL	NULL	False
	3	3	3	NULL	NULL	True
	4	4	4	NULL	NULL	True
	5	5	5	NULL	NULL	False
	6	6	6	NULL	NULL	False
	7	7	NULL	2	NULL	False
	8	8	NULL	4	NULL	True
	9	9	NULL	1	NULL	True
	10	10	NULL	3	NULL	True
	11	11	NULL	5	NULL	False
	12	12	NULL	3	NULL	True

4.1.18 Forum Topic

Primary Key:

- TopicID

Foreign Keys:

- CategoryForumID (CategoryForum table)

Data: This is the ForumTopic table, it holds the data within a certain topic type. It holds both the title and the body of the topic. It gives the customer the option to update or edit their post at a later date. I realised after creating the forum that there was a better way of doing so, using data recursion.

	Column Name	Data Type	Allow Nulls
💡	TopicID	int	<input type="checkbox"/>
	CategoryForumID	int	<input type="checkbox"/>
	Title	nvarchar(50)	<input type="checkbox"/>
	Body	nvarchar(MAX)	<input type="checkbox"/>
	Createdat	datetime	<input type="checkbox"/>
	updatedat	datetime	<input checked="" type="checkbox"/>
	PostViews	int	<input checked="" type="checkbox"/>

	TopicID	CategoryForumID	Title	Body	Createdat	updatedat	PostViews
▶	1	10	Guappo Hair Design...	Can anyone tell me if guappo are good?	2016-07-29 00:00:00.000	NULL	3
	2	3	New Hair Cut NEEDED	Whats fashionable for us gents these days?	2016-12-25 00:00:00.000	2016-12-26 00:00:00.000	5
	3	5	Nail Art (Miss Nails)	Love my new nails will certainly be going back!!!!	2017-03-02 11:00:00.000	NULL	4
	4	10	Tattoo Cover-up	Looking for a tattoo idea to cover a very poor tattoo I have	2017-03-02 11:00:00.000	2017-03-03 00:00:00.000	5
	5	9	Jesmond Beauty Clinic	how can I create a good smokey eye?	2017-01-11 00:00:00.000	NULL	4
	6	2	Beach Wave	How do I create a beach wave using straightners	2017-01-15 00:00:00.000	NULL	11

4.1.19 Topic_Post

Primary Key:

- PostID

Foreign Keys:

- TopicID (ForumTopic table)

Data: This is the Topic_Post table, it holds the data of a customer posting within an already created topic, identified by the foreign key constraint; TopicID.

	Column Name	Data Type	Allow Nulls
	PostID	int	<input type="checkbox"/>
	TopicID	int	<input checked="" type="checkbox"/>
	Title	nvarchar(MAX)	<input type="checkbox"/>
	Body	nvarchar(MAX)	<input type="checkbox"/>
	CreatedAt	datetime	<input type="checkbox"/>
	UpdatedAT	datetime	<input type="checkbox"/>
.....			

	PostID	TopicID	Title	Body	CreatedAt	UpdatedAT
▶	1	6	Beach Wave	Wrap the hair around the straightners, turn the straighters once and pull through the ends.	1900-01-01 11:00:00.000	1900-01-01 11:00:00.000
	2	1	GUAPPO	I think that Guappo's Hair Design, is excellent. The staff are also so friendly and love catching up with their customers.	1900-01-01 11:00:00.000	1900-01-01 11:00:00.000
	3	5	Smokey Eye	Sweep Dark eyeshadow to a point at end of eyebrow, then sweep a little onto your lower lid.	1900-01-01 11:00:00.000	1900-01-01 11:00:00.000
	4	4	Tattoo cover-up	Hi, it depents on the size of your current tattoo, please elaborate.	1900-01-01 11:00:00.000	1900-01-01 11:00:00.000
	5	2	Fashionable Hair	skin fades are in at the moment.	1900-01-01 11:00:00.000	1900-01-01 11:00:00.000
	6	3	Nail Art	Hi, I've been looking to change for a while now, what art would you recommend?	1900-01-01 11:00:00.000	1900-01-01 11:00:00.000

4.1.20 ProductImage

Primary Key:

- ProductImageID

Data: This is the ProductImage table, it holds images of products held by the Salons.

	Column Name	Data Type	Allow Nulls
1	ProductImageID	int	<input type="checkbox"/>
2	ProductImageURL	nvarchar(MAX)	<input type="checkbox"/>
3	Notes	nvarchar(MAX)	<input type="checkbox"/>

	ProductImageID	ProductImageURL	Notes
1	1	http://3.bp.blogspot.com/_O4YbuUH2Kms/TJWbd0D0SoI/AAAAAAAAs/e3VgaXhYbDY/s1600/Tigi+Bed+Head+Urban+... https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcRilkhltrNW410hXCA0cm4Ro7qXeAHSGy4Mt100jw-25L3fEj7c https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcTl61QOIGgdSV7SyLZLjVWINEntBFhVux1WB7NeQUTSHdakS5F... data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMTEhUTExFRUXGB8bGBYWGCEdIBofHh4... http://images.askmen.com/grooming/appearance/best-beard-oils-reviewed_1431113145.jpg data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMTEhITExFhUXFRYVGrcXFrcZGhYVF... data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMTEhUSEhVFRUXFRgWFUVFRUVGBcVF... http://thumbs1.ebaystatic.com/d/l225/m/m0Wli09MYW0WUbyaq63HApQ.jpg http://www.famousdave.co.uk/files/6113/4019/2359/colourchart.jpg http://www.imagehere.com http://www.imagehere.com http://www.imagehere.com	Bead Head Gel and Wax got2B Hair gel Garnier Hair Wax Beard Comb [Gentleman] BeardZilla Oils Loreal Hair colour Blond Tattoo Bandage Antiseptic Tattoo wipes Tanning Oils Tanning Mit Beard oils Beard Comb
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

4.1.21 ProductStock

Primary Key:

- ProductStockID

Foreign Keys:

- ProductImageID (ProductImage table)
- SupplierID (ProductSuppliers table)
- ProductStockTypeID (ProductStockType table)

Data: This is the ProductStock table, it holds the names of products held at the salon.

	Column Name	Data Type	Allow Nulls
?	ProductStockID	int	<input type="checkbox"/>
	ProductImageID	int	<input type="checkbox"/>
	SupplierID	int	<input type="checkbox"/>
	ProductStockTypeID	int	<input type="checkbox"/>
	ProductName	nvarchar(50)	<input type="checkbox"/>

	ProductStockID	ProductImageID	SupplierID	ProductStockT...	ProductName
▶	1	4	1	6	Unigloves Alcohol Wipes
	2	8	1	6	Braun Tattoo bandages
	3	1	2	1	Bed Head Gel and Wax
	4	3	2	1	Garnier Hair Wax
	5	9	4	4	Tanning Oils
	6	10	4	4	Tanning Mit
	7	11	3	7	Beard oils
	8	12	3	7	Beard Comb

4.1.22 ProductStockLevel

Primary Key:

- ProductStockLevelID

Foreign Keys:

- ProductStockID (ProductImage table)

Data: This is the ProductStockLevel table, it tracks the stock number. Once this number gets low enough it will trigger to the salon that more stock is needed.

	Column Name	Data Type	Allow Nulls
PK	ProductStockLevelID	int	<input type="checkbox"/>
	ProductStockID	int	<input type="checkbox"/>
	ProductStockLevel	int	<input type="checkbox"/>

	ProductStockLevelID	ProductStockID	ProductStockLevel
▶	1	1	20
	2	2	150
	3	3	100
	4	4	100
	5	5	50
	6	6	30
	7	7	10
	8	8	150

4.1.23 ProductStockType

Primary Key:

- ProductStockTypeID

Data: This is the ProductStockType table, it holds the names of the different categories of products.

	Column Name	Data Type	Allow Nulls
1	PrductStockTypeID	int	<input type="checkbox"/>
	ProductStockTypeName	nvarchar(50)	<input type="checkbox"/>

	PrductStockTypeID	ProductStockTypeName
▶	1	HairProduct
	2	NailProduct
	3	EyebrowProduct
	4	TanningProduct
	5	BeautyProduct
	6	Tattoo
	7	Beard Products

4.1.24 ProductSuppliers

Primary Key:

- SupplierID

Data: This is the ProductSuppliers table, it stores all the information to create a supplier record. It is able to store their website [url] logo and what current orders are in place. I believe nvarchar(max) is imperative for URL, logo and notes columns.

Note: The table data screen view is in two halves for easier viewing.

	Column Name	Data Type	Allow Nulls
1	SupplierID	int	<input type="checkbox"/>
2	Name	nvarchar(50)	<input type="checkbox"/>
3	ContactName	nvarchar(50)	<input type="checkbox"/>
4	Address	nvarchar(50)	<input type="checkbox"/>
5	PostCode	nvarchar(50)	<input type="checkbox"/>
6	Country	nvarchar(50)	<input type="checkbox"/>
7	PhoneNo	nvarchar(50)	<input type="checkbox"/>
8	Email	nvarchar(50)	<input type="checkbox"/>
9	URL	nvarchar(MAX)	<input checked="" type="checkbox"/>
10	Logo	nvarchar(MAX)	<input checked="" type="checkbox"/>
11	Notes	nvarchar(MAX)	<input checked="" type="checkbox"/>
12	CurrentOrder	nvarchar(50)	<input type="checkbox"/>

1

	SupplierID	Name	ContactName	Address	PostCode	Country	PhoneNo	Email
▶	1	Sallys	Gill Burgess	33 Shadforth Close	SR8 2LA	England	0800 980 9961	G.Burgess@sallys.com
	2	Salon Services	Barbara Yews	Bothar Na Mine, Ballybane	H91 RFC1	Ireland	00353 917 51377	B.Yews@SalServ.co.uk
	3	Beauty Express	Bill Myers	Unit 3 The Arc, 25 Colquhoun Ave,	G52 4BN	Scotland	0330 123 1908	B.Myers@BExpress.co.uk
	4	LA Tanning	Kimberley Jayne	62 Buxton Rd, Stockport,	SK2 6NB	England	0161 483 7156	K.Jayne@latanning.com
	5	Feel Unique	Marg Kay	4th floor, Berkshire House,	WC1V 7AA	England	+447937 946929	M.K@Feelunique.com

2

Logo	Notes	CurrentOrder
http://www.sallyexpress.com/images/core/logo.gif	---	15 Hair Products
http://www.salon-services.com/images/core/ss_logo.gif	Every 2 Month	15 Hair Products
http://www.beautyexpress.co.uk/images/core/belogo.gif	Every Quarter	35 Nail Products
http://www.latanning.co.uk/media/images/default/la_tan_new_logo_2-min.jpg	Monthly	5 Tanning Products
http://cdn1.feelunique.com/assets/img/feelunique-logo.png?LoOP=890a39ddec5f939885dafc6d03eaae57Dc	Monthly	Beauty and Eyebrow products x25

4.1.25 AssetCategories

Primary Key:

- AssetcategoryID

Data: This is the AssetCategories table, it holds the names of the different categories of Assets.

	Column Name	Data Type	Allow Nulls
1	AssetCategoryID	int	<input type="checkbox"/>
.....	AssetCategory	nvarchar(50)	<input type="checkbox"/>

	AssetCategoryID	AssetCategory
1	1	Monitors
2	2	Keyboards
3	3	Laptops
4	4	Safe
5	5	CashRegister
6	6	Server
7	7	MobilePhones
8	8	Scissors
9	9	product
10	10	Combs
11	11	Nail Equipment

4.1.26 Assets

Primary Key:

- AssetID

Foreign Keys:

- AssetCategoryID (AssetCategory table)

Data: This is the Asset table, it holds the model and serial number for all assets within a salon, it is an asset management system.

	Column Name	Data Type	Allow Nulls
!	AssetID	int	<input type="checkbox"/>
	AssetCategoryID	int	<input type="checkbox"/>
	ModelNo	nvarchar(20)	<input type="checkbox"/>
	SerialNo	nvarchar(20)	<input type="checkbox"/>
	DateAcquired	datetime	<input type="checkbox"/>
	PurchasePrice	nvarchar(50)	<input type="checkbox"/>
	Comments	nvarchar(50)	<input checked="" type="checkbox"/>

	AssetID	AssetCategoryID	ModelNo	SerialNo	DateAcquired	PurchasePrice	Comments
1	6	Dell	8345pX4i	2017-02-02 00:0...	400.00	Server, great co...	
2	8	Wella	823454LL	2016-12-12 00:0...	12.65	Scissors, still sh...	
3	3	Apple Macboo...	i349345BG	2015-07-08 00:0...	1250.00	Macbook, getti...	
4	10	---	197GTY	2017-01-28 00:0...	20.00	Comb has teet...	
5	11	NSI	NSI012547BG	2016-12-25 00:0...	500.00	Twin Fan Nail ...	
6	1	Dell	896GB	2016-12-25 00:0...	125.00	Dell Monitor	

4.1.27 SalonAssets

Primary Key:

- SalonAssetID

Foreign Keys:

- SalonID (AssetCategory table)
- AssetID (AssetCategory table)

Data: This is the SalonAssets table, it binds both the Salon and the Asset together within the table.

	Column Name	Data Type	Allow Nulls
🔑	SalonAssetID	int	<input type="checkbox"/>
	SalonID	int	<input type="checkbox"/>
	AssetID	int	<input type="checkbox"/>

	SalonAssetID	SalonID	AssetID
	1	1	1
	2	2	1
	3	3	1
	4	5	1
	5	6	1
	7	1	2
	8	2	2
	9	3	2
	10	4	2
	11	5	2
	12	6	2

4.1.28 HairAndBeautySalon

Primary Key:

- SalonID

Data: This is the HairAndBeautySalon table, it holds all of the information to create a salon record. It enables salons to add their local to any implemented map framework using geolocation, datatype Geography, data type is entered using the Longitude and Latitude of their coordinates. It displays in the table as '<Binary Data>'. Code to enter data into Geography column: - (UPDATE dbo.HairAndBeautySalon SET Location = geography::Point(47.65100, -122.34900, 4326) WHERE SalonID = 1)

	Column Name	Data Type	Allow Nulls
1	SalonID	int	<input type="checkbox"/>
	Name	nvarchar(MAX)	<input type="checkbox"/>
	Address	nvarchar(MAX)	<input type="checkbox"/>
	Postcode	nvarchar(MAX)	<input type="checkbox"/>
	[Telephone Number]	nvarchar(MAX)	<input type="checkbox"/>
	Website	nvarchar(MAX)	<input checked="" type="checkbox"/>
	LogoURL	nvarchar(MAX)	<input checked="" type="checkbox"/>
	Facebook	nvarchar(MAX)	<input checked="" type="checkbox"/>
	LinkedIn	nvarchar(MAX)	<input checked="" type="checkbox"/>
	Twitter	nvarchar(MAX)	<input checked="" type="checkbox"/>
	Googleplus	nvarchar(MAX)	<input checked="" type="checkbox"/>
	Location	geography	<input checked="" type="checkbox"/>
	RegistrationDate	datetime	<input type="checkbox"/>

Note: The Table has been split into 3 screen shots for ease of viewing

Website	LogoURL	Facebook
http://www.guappo.co.uk	https://static.wixstatic.com/media/f84d5c_43d927d4a5...	https://www.facebook.com/guappohd//
http://castledeneshoppingcentre.co.uk/shops/the-hair-studio/	http://castledeneshoppingcentre.co.uk/wp-content/th...	https://www.facebook.com/pages/The-...
http://www.miss-nails.co.uk/miss%20nails-price%20list.htm	http://www.miss-nails.co.uk/index_htm_files/0.png	https://www.facebook.com/missnailsfor...
http://www.bonapfeet.co.uk/	http://www.bonapfeet.co.uk/includes/templates/trai...	https://www.facebook.com/Bonapfeet...
http://www.angeltattooandpiercing.com/	http://www.angeltattooandpiercing.com/logo.php/1	NULL
http://www.jesmondbeauty.co.uk	http://www.jesmondbeauty.co.uk/images/jesmond-be...	https://www.facebook.com/jesmondbe...

	SalonID	Name	Address	Postcode	Telephone Number
►	1	Guappo Hair Design	20 Front Street, Shotton, County Durham	DH6 2LT	0191 520 8244
	2	The Hair Studio	9 Upper Yoden Way, Castle Dene Shopping Centre, Peterlee	SR8 1AX	0191 518 1515
	3	Miss Nails	75 North Road, Durham	DH14SQ	01274309114
	4	BONAPFEET	34b river walk, Durham	DH1 4SJ	07903564310
	5	Angels Tattoo's And Piercing	11 Newport Cres, Middlesbrough	TS1 5EP	01642 228749
	6	Jesmond Beauty Clinic	11-12 Clayton Road, Jesmond, Newcastle upon Tyne	NE2 4RP	0191 2818775

LinkedIn	Twitter	Googleplus	Location	RegistrationDate
NULL	NULL	NULL	<Binary data>	2016-05-20 00:00:00.000
NULL	NULL	NULL	<Binary data>	2015-06-21 00:00:00.000
NULL	NULL	NULL	<Binary data>	2014-04-29 00:00:00.000
NULL	NULL	NULL	<Binary data>	2017-01-01 00:00:00.000
NULL	NULL	NULL	<Binary data>	2016-07-29 00:00:00.000
NULL	https://twitter.com/beautyjesmond	NULL	<Binary data>	2014-04-30 00:00:00.000

4.1.29 SalonOpeningTime

Primary Key:

- OpeningTimeID

Foreign Keys:

- SalonID (HairAndBeautySalon table)

Data: This is the SalonOpeningTimeID, it holds the days and dates that the salon is open. The salon can leave a note to let their customer know that they are closed on a certain day.

	Column Name	Data Type	Allow Nulls
	OpeningTimeID	int	<input type="checkbox"/>
	SalonID	int	<input type="checkbox"/>
	DayOfWeek	nvarchar(50)	<input type="checkbox"/>
	OpeningTime	time(7)	<input type="checkbox"/>
	ClosingTime	time(7)	<input type="checkbox"/>
	NotesIfClosed	nvarchar(50)	<input checked="" type="checkbox"/>

	OpeningTimeID	SalonID	DayOfWeek	OpeningTime	ClosingTime	NotesIfClosed
▶	1	1	Monday	08:00:00	17:00:00	NULL
	2	1	Tuesday	08:00:00	17:00:00	NULL
	3	1	Wednesday	NULL	NULL	CLOSED
	4	1	Thursday	10:30:00	19:30:00	NULL
	5	1	Friday	08:00:00	17:00:00	NULL
	6	1	Saturday	07:00:00	14:00:00	NULL
	7	1	Sunday	NULL	NULL	CLOSED

4.1.30 EmployeeTraining

Primary Key:

- TrainingTrackerID

Foreign Keys:

- EmployeeID (Employee table)
- TrainingActivityID (TrainingActivity table)

Data: This is the EmployeeTraining table, it holds all the information needed to track an employee's training, this includes the training name, date coached, which employee verified the training and any comments that were needed for that particular training.

	Column Name	Data Type	Allow Nulls
1	TrainingTrackerID	int	<input type="checkbox"/>
	EmployeeID	int	<input type="checkbox"/>
	TrainingActivityID	int	<input type="checkbox"/>
	TrainingActivityName	nvarchar(MAX)	<input type="checkbox"/>
	DateCoached	datetime	<input type="checkbox"/>
	DateVerified	datetime	<input checked="" type="checkbox"/>
	EmployeeVerificationNa...	nvarchar(50)	<input type="checkbox"/>
	Comments	nvarchar(MAX)	<input type="checkbox"/>

	TrainingTrackerID	EmployeeID	TrainingActivityID	TrainingActivityName	DateCoached	DateVerified	EmployeeVerificationName	Comments
▶	1	5	2	MensColour	2017-03-05 00:00:00.000	2017-03-05 00:00:00.000	Phil Unsworth	Fantastic Well done
	2	4	4	WomansColour	2016-12-12 00:00:00.000	2016-12-12 00:00:00.000	Phil Unsworth	Needs a little more work, nearly there
	3	3	5	CutThroatShave	2017-11-12 00:00:00.000	2017-11-12 00:00:00.000	Phil Unsworth	Well done, first time. Great
	4	10	1	MensCut	2017-03-05 00:00:00.000	2017-03-05 00:00:00.000	Jeffrey Turner	Heavy Blend, created perfectly

4.1.31 TrainingActivity

Primary Key:

- TrainingActivityID

Foreign Keys:

- TrainingCategoryID (TrainingCategory table)

Data: This is the TrainingActivity table, it hold the name and description of specific training activities, if also holds the foreign key constraint; TrainingCategoryID.

	Column Name	Data Type	Allow Nulls
1	TrainingActivityID	int	<input type="checkbox"/>
	TrainingCategoryID	int	<input type="checkbox"/>
	ActivityName	nvarchar(MAX)	<input type="checkbox"/>
	ActivityDescription	nvarchar(MAX)	<input type="checkbox"/>

	TrainingActivityID	TrainingCategoryID	ActivityName	ActivityDescription
▶	1	8	Waxing	Ful Eyebrow Wax
	2	1	MensCut	Heavy Blend
	3	2	MensColour	Mens Full Colour Change
	4	7	BeardPrecision	Trimming and neatening of the beard
	5	6	Tanning	Full body fake tan application
	6	5	CutThroadShave	Wet towell followed by cut throad shave
	7	3	WomansCut	Cut in a full fringe
	8	4	WomansColour	Extreme Colour change

4.1.32 TrainingCategory

Primary Key:

- TrainingCategoryID

Foreign Keys:

- SalonID (HairAndBeautySalon table)

Data: This is the TrainingCategory table, it holds data regarding the different categories of training. It is related to the Salon table since different salons might need different categories of training.

	Column Name	Data Type	Allow Nulls
key	TrainingCategoryID	int	<input type="checkbox"/>
	SalonID	int	<input type="checkbox"/>
	CategoryName	nvarchar(50)	<input type="checkbox"/>

	TrainingCategoryID	SalonID	CategoryName
▶	1	1	MensCut
	2	1	MensColour
	3	1	WomansCut
	4	1	WomansColour
	5	1	CutThroatShave
	6	1	Tanning
	7	1	BeardPrecision
	8	1	Waxing

4.1.33 TrainingVideo

Primary Key:

- TrainingVideoID

Foreign Keys:

- TrainingTrackerID

Data: This is the TrainingVideo table, it holds employee training videos for progression purposes. It also holds the TrainingTrackerID so that a certain video can be paired with the correct tracker.

	Column Name	Data Type	Allow Nulls
1	TrainingVideoID	int	<input type="checkbox"/>
	TrainingTrackerID	int	<input type="checkbox"/>
	DateRecorded	datetime	<input type="checkbox"/>

	TrainingVideoID	TrainingTrackerID	DateRecorded
▶	1	4	2017-03-05 00:00:00.000
	2	3	2017-11-12 00:00:00.000
	3	2	2016-12-12 00:00:00.000
	4	1	2017-03-05 00:00:00.000

4.1.34 Treatment

Primary Key:

- Treatment

Foreign Keys:

- TreatmentTypeID (TreatmentTypeID)

Data: This is the Treatment table, it holds all of the names for different treatments that a salon has. This information is split into different categories using the foreign key constraint TreatmentTypeID.

	Column Name	Data Type	Allow Nulls
PK	TreatmentID	int	<input type="checkbox"/>
	TreatmentTypeID	int	<input type="checkbox"/>
	TreatmentName	nvarchar(50)	<input type="checkbox"/>

	TreatmentID	TreatmentTypeID	TreatmentName
1	4		Eyebrow Re-shape
2	1		Short back and sides
3	2		Top Knot
4	5		Beard Trim
5	3		Re-colour
6	13		Custom Nail Art
7	8		Fringe trim
8	9		Slight Colour change
9	9		Complete Colour change
10	14		New Tattoo
11	14		Tattoo Cover-up
12	7		Full Body Tan

4.1.35 TreatmentEquipment

Primary Key:

- TreatmentEquipmentID

Foreign Keys:

- TreatmentID (Treatment table)
- EquipmentID (Equipment table)

Data: This is the TreatmentEquipment table, it is used to let employees know what equipment they are going to need for a certain treatment, it also lets the employee know how many of this equipment is needed.

	Column Name	Data Type	Allow Nulls
PK	TreatmentEquipmentID	int	<input type="checkbox"/>
	TreatmentID	int	<input type="checkbox"/>
	EquipmentID	int	<input type="checkbox"/>
	AmountNeeded	int	<input type="checkbox"/>

	TreatmentEquipmentID	TreatmentID	EquipmentID	AmountNeeded
▶	1	2	1	1
	2	2	1	2
	3	1	9	1
	4	1	9	25
	5	12	12	1
	6	12	11	1
	7	4	1	1
	8	10	13	1

4.1.36 TreatmentProductStock

Primary Key:

- TreatmentProductStockID

Foreign Keys:

- TreatmentID (Treatment table)
- ProductStockID (ProductStock table)

Data: This is the TreatmentProductStock table, it is used to let employees know products they are going to need for a certain treatment.

	Column Name	Data Type	Allow Nulls
PK	TreatmentProductStockID	int	<input type="checkbox"/>
	TreatmentID	int	<input type="checkbox"/>
	ProductStockID	int	<input type="checkbox"/>

	TreatmentProductStockID	TreatmentID	ProductStockID
▶	1	2	3
	2	2	4
	3	4	7
	4	4	8
	5	10	1
	6	10	2
	7	12	5
	8	12	6

4.1.37 TreatmentType

Primary Key:

- TreatmentTypeID

Data: This is the TreatmentType table, it holds the names of the different categories of treatments.

	Column Name	Data Type	Allow Nulls
1	TreatmentTypeID	int	<input type="checkbox"/>
	TreatmentType	nvarchar(MAX)	<input type="checkbox"/>

	TreatmentTypeID	TreatmentType
▶	1	Mens Traditional cut
	2	Mens Trend Cut
	3	Mens Colouring
	4	Eyebrows
	5	Beard work
	6	Shaving
	7	Tanning
	8	Womans trim
	9	Womans full head colour
	10	Womans re-style
	11	Gel Nails
	12	Acrylic Nails
	13	Nail Art
	14	Tattoo

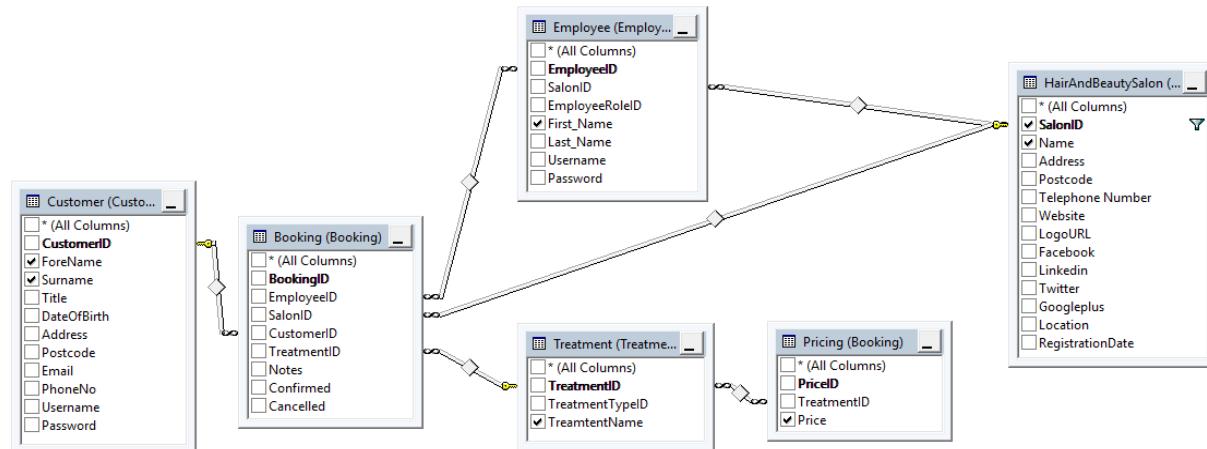
4.2 VIEWS

Within the Structured Query Language (SQL) a view is a virtual table. Views (W3schools, 2012) are used to connect multiple tables into one simplified virtual table.

Below is the views I have created for this server database project.

4.2.1 Invoice View

The invoice view is created to so that a salon can tell, in bulk, who they have invoiced. This may needed to be printed out to show their accountants etc. This is why for this view I have created it for one salon in particular, to do this I added in the WHERE clause.



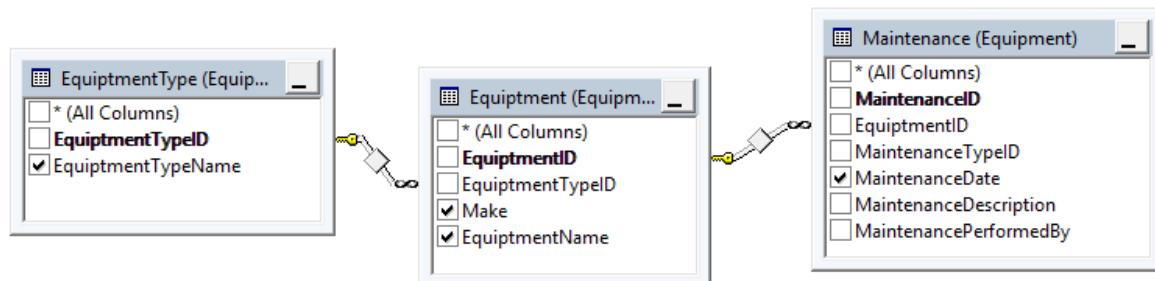
```

SELECT Salon.HairAndBeautySalon.SalonID, Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name, Treatment.Treatment.TreatmentName,
Booking.Pricing.Price, Customer.Customer.ForeName, Customer.Customer.Surname
FROM Booking.Booking INNER JOIN
Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN
Salon.HairAndBeautySalon ON Booking.Booking.SalonID = Salon.HairAndBeautySalon.SalonID INNER JOIN
Treatment.Treatment ON Booking.Booking.TreatmentID = Treatment.Treatment.TreatmentID INNER JOIN
Booking.Pricing ON Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID AND Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID AND
Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID AND Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID INNER JOIN
Employee.Employee ON Booking.Booking.EmployeeID = Employee.Employee.EmployeeID AND Booking.Booking.EmployeeID = Employee.Employee.EmployeeID AND
Salon.HairAndBeautySalon.SalonID = Employee.Employee.SalonID AND Salon.HairAndBeautySalon.SalonID = Employee.Employee.SalonID AND
Salon.HairAndBeautySalon.SalonID = Employee.Employee.SalonID
WHERE (Salon.HairAndBeautySalon.SalonID = 1)
    
```

	SalonID	Name	First_Name	TreatmentName	Price	ForeName	Surname
1	Guappo Hair D...	Karl	Eyebrow Re-sh...	10.99	Elaine	Simpson	
1	Guappo Hair D...	Helen	Re-colour	39.99	Helen	Ferguson	
1	Guappo Hair D...	Sam	Custom Nail Art	15.99	James	Coils	
1	Guappo Hair D...	Phil	Tattoo Cover-up	100 p/h	Adam	Smith	
1	Guappo Hair D...	Brogham	Full Body Tan	40.00	Latisha	Brown	

4.2.2 Maintenance Date View

This view allows a salon to see when a certain piece of equipment was last maintained, or is going to be maintained. This helps a salon keep their equipment in order.

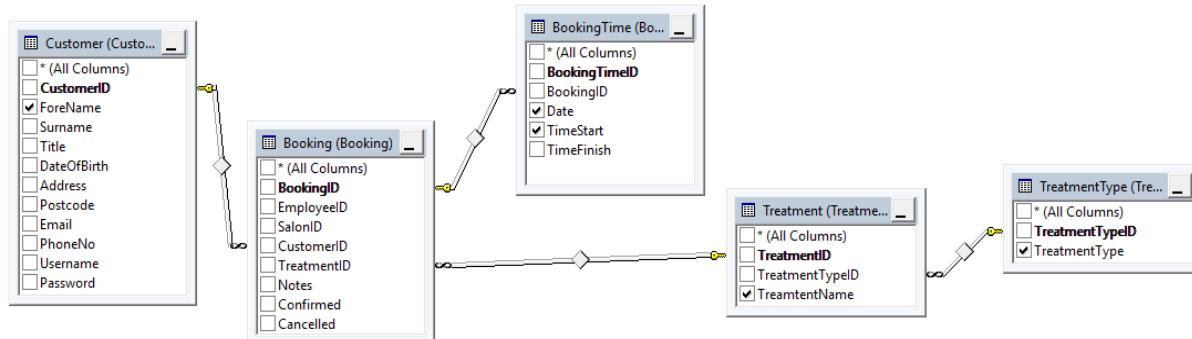


```
SELECT Equipment.EquipmentType.EquipmentTypeName, Equipment.Equipment.EquipmentName, Equipment.Equipment.Make, Equipment.Maintenance.MaintenanceDate
FROM Equipment.Equipment INNER JOIN
    Equipment.EquipmentType ON Equipment.Equipment.EquipmentTypeID = Equipment.EquipmentType.EquipmentTypeID INNER JOIN
    Equipment.Maintenance ON Equipment.Equipment.EquipmentID = Equipment.Maintenance.EquipmentID
```

	EquipmentTypeName	EquipmentName	Make	MaintenanceDate
	HairEquipment	Clippers	Wahl	2017-12-14 00:00:00.000
	HairEquipment	Hairdryers	Diva	2016-12-14 00:00:00.000
	HairEquipment	Tongs	Cloud9	2016-12-14 00:00:00.000
	HairEquipment	Straightners	Cloud9	2017-12-14 00:00:00.000
	HairEquipment	Scissors	Jaguar	2017-12-14 00:00:00.000
	NailEquipment	UV Polish Lamp	Rio	2017-12-14 00:00:00.000

4.2.3 All Bookings View

This allows salon to view all of their appointments. This would be a good idea if their salon was having an audit. This could also be used as a chart to see when their busiest months are.

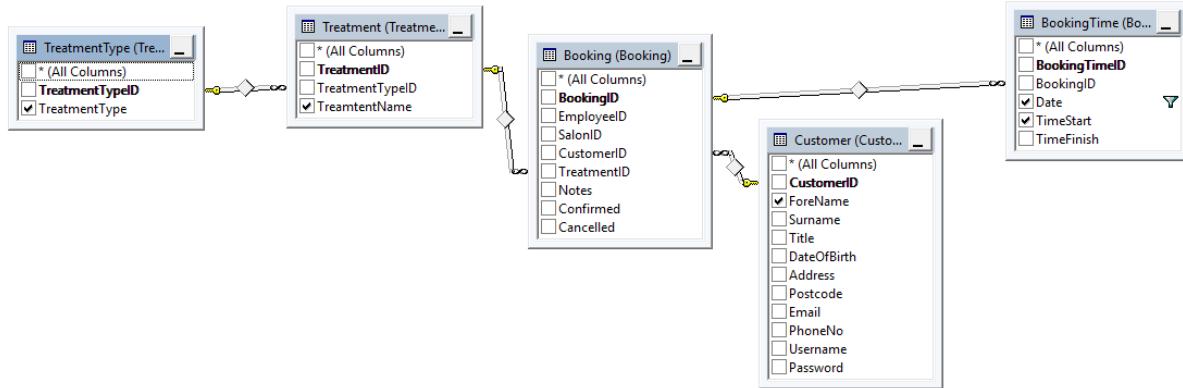


```
SELECT Customer.Customer.ForeName, Treatment.Treatment.TreatmentName, Treatment.TreatmentType.TreatmentType, Booking.BookingTime.Date, Booking.BookingTime.TimeStart  
FROM Treatment.TreatmentType INNER JOIN  
Treatment.Treatment ON Treatment.TreatmentType.TreatmentTypeID =  
Treatment.Treatment.TreatmentTypeID AND Treatment.TreatmentType.TreatmentTypeID = Treatment.Treatment.TreatmentTypeID INNER JOIN  
Booking.Booking ON Treatment.TreatmentID = Booking.Booking.TreatmentID AND Treatment.TreatmentID = Booking.Booking.TreatmentID INNER JOIN  
Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID AND Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN  
Booking.BookingTime ON Booking.Booking.BookingID = Booking.BookingTime.BookingID
```

	ForeName	TreatmentName	TreatmentType	Date	TimeStart
	Elaine	Eyebrow Re-sh...	Eyebrows	2017-06-12	11:15:00
	Adam	Tattoo Cover-up	Tattoo	2017-05-12	12:15:00
	Latisha	Full Body Tan	Tanning	2015-03-12	09:00:00
	James	Custom Nail Art	Nail Art	2015-02-27	07:30:00
	Helen	Re-colour	Mens Colouring	2017-04-17	15:00:00
	Ruth	Fringe trim	Womans trim	2018-03-18	11:00:00

4.2.4 All Future Bookings View

This view allows a salon to manage all of their appointments, taking the necessary preparation for each customer.



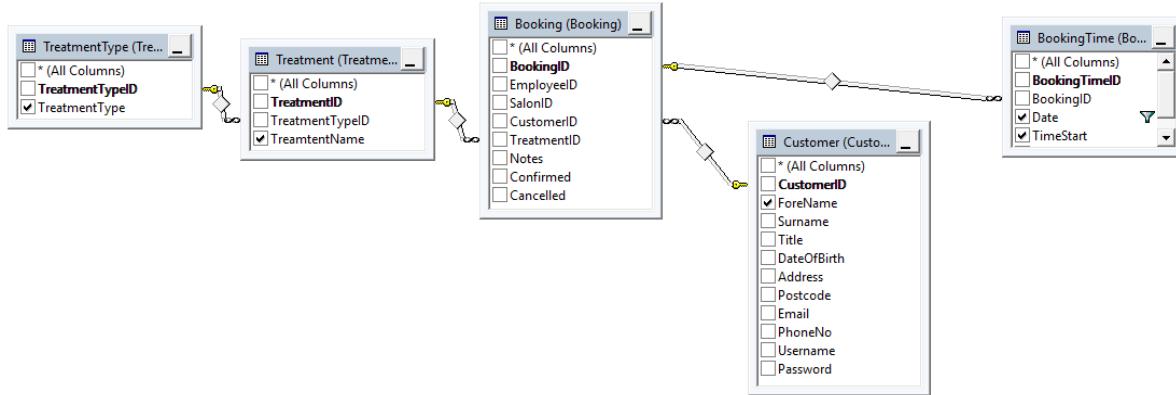
```

SELECT Customer.Customer.ForeName, Treatment.Treatment.TreamtentName, Treatment.TreatmentType.TreatmentType, Booking.BookingTime.Date, Booking.BookingTime.TimeStart
FROM Treatment.TreatmentType INNER JOIN
     Treatment.Treatment ON Treatment.TreatmentType.TreatmentTypeID =
|Treatment.Treatment.TreatmentTypeID AND Treatment.TreatmentType.TreatmentTypeID = Treatment.Treatment.TreatmentTypeID INNER JOIN
     Booking.Booking ON Treatment.TreatmentTreatmentID = Booking.Booking.TreatmentID AND Treatment.TreatmentID = Booking.Booking.TreatmentID INNER JOIN
     Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID AND Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN
     Booking.BookingTime ON Booking.Booking.BookingID = Booking.BookingTime.BookingID
WHERE (Booking.BookingTime.Date > GETDATE())
  
```

	ForeName	TreamtentName	TreatmentType	Date	TimeStart
	Elaine	Eyebrow Re-shape	Eyebrows	2017-06-12	11:15:00
	Adam	Tattoo Cover-up	Tattoo	2017-05-12	12:15:00
	Helen	Re-colour	Mens Colouring	2017-04-17	15:00:00
	Ruth	Fringe trim	Womans trim	2018-03-18	11:00:00

4.2.5 Next Month Bookings View

This view is imperative to a salons diary. With some changes with the 'BETWEEN' clause it is simple to adjust this to the Salons needs.



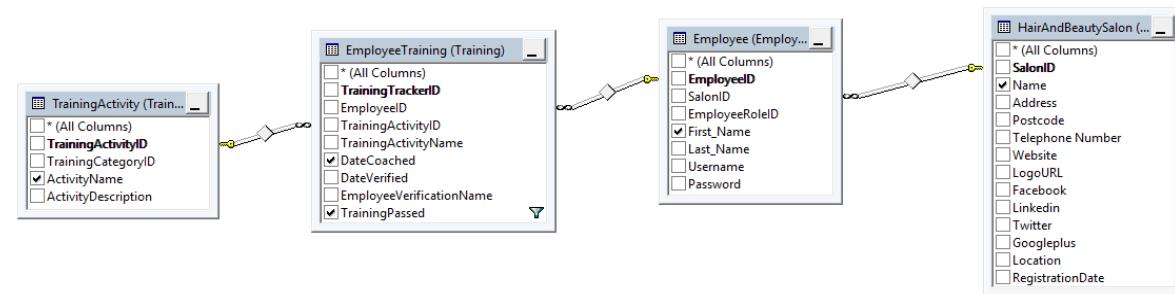
```

SELECT Customer.Customer.ForeName, Treatment.Treatment.TreamtentName, Treatment.TreatmentType.TreatmentType, Booking.BookingTime.Date, Booking.BookingTime.TimeStart
FROM TreatmentTreatmentType INNER JOIN
TreatmentTreatment ON TreatmentTreatment.TreatmentTreatmentTypeID =
TreatmentTreatment.TreatmentTreatmentTypeID = TreatmentTreatment.TreatmentTreatmentTypeID INNER JOIN
BookingBooking ON TreatmentTreatment.TreatmentID = BookingBooking.TreatmentID AND TreatmentTreatment.TreatmentID = BookingBooking.TreatmentID INNER JOIN
CustomerCustomer ON BookingBooking.CustomerID = CustomerCustomer.CustomerID AND BookingBooking.CustomerID = CustomerCustomer.CustomerID INNER JOIN
BookingBookingTime ON BookingBooking.BookingID = BookingBookingTime.BookingID
WHERE (BookingBookingTime.Date BETWEEN '2017/03/20' AND '2017/04/20')
  
```

	ForeName	TreamtentName	TreatmentType	Date	TimeStart
	Helen	Re-colour	Mens Colouring	2017-04-17	15:00:00

4.2.6 Training Passed View

This view allows management to see which employees have passed their training. This is essential to keep progress of a salons staff, management will be able to keep tabs on who has passed what.



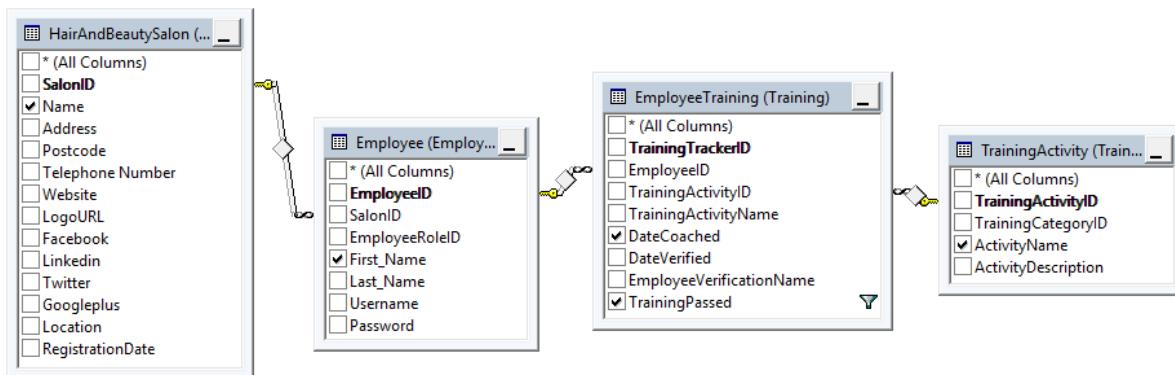
```

SELECT      Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name, Training.TrainingActivity.ActivityName, Training.EmployeeTraining.DateCoached, Training.EmployeeTraining.TrainingPassed
FROM        Training.TrainingActivity INNER JOIN
           Training.EmployeeTraining ON Training.TrainingActivity.ID = Training.EmployeeTraining.TrainingActivityID INNER JOIN
           Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID INNER JOIN
           Salon.HairAndBeautySalon ON Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID AND Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID
WHERE       (Training.EmployeeTraining.TrainingPassed = 1)
  
```

	Name	First_Name	ActivityName	DateCoached	TrainingPassed
	Guappo Hair Design	Karl	MensCut	2017-03-05 00:00:00	True
	Guappo Hair Design	Brogham	BeardPrecision	2016-12-12 00:00:00	True
	Guappo Hair Design	Helen	Tanning	2017-11-12 00:00:00	True

4.2.7 Training Failed View

This view allows management to see which employees have failed their training. This is essential to keep progress of a salons staff, management will be able to keep tabs on who has failed their training.



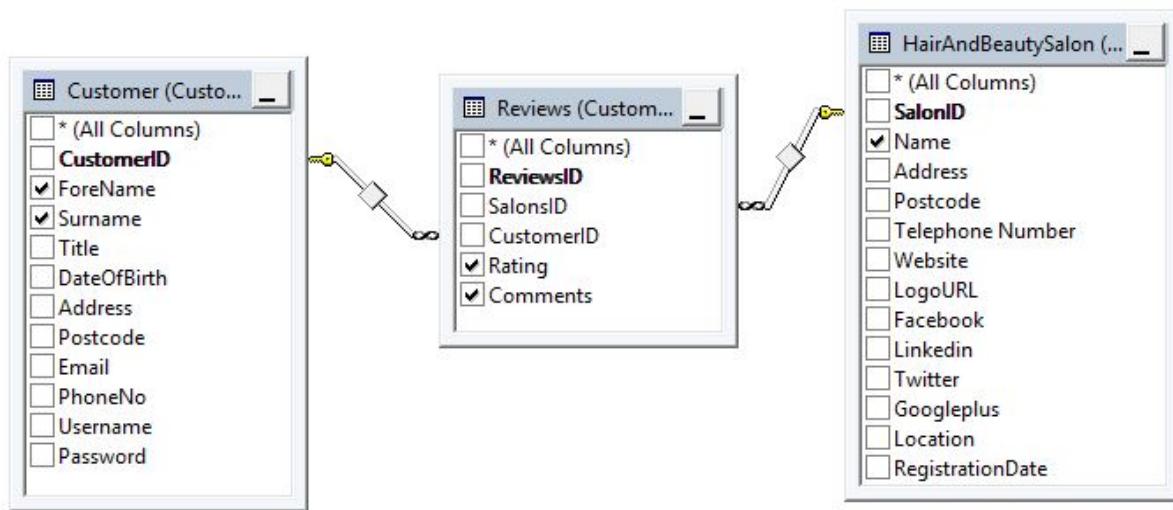
```

SELECT Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name, Training.TrainingActivity.ActivityName,
       Training.EmployeeTraining.DateCoached, Training.EmployeeTraining.TrainingPassed
FROM Training.TrainingActivity INNER JOIN
      Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID = Training.EmployeeTraining.TrainingActivityID INNER JOIN
      Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID INNER JOIN
      Salon.HairAndBeautySalon ON Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID
WHERE (Training.EmployeeTraining.TrainingPassed = 0)
    
```

	Name	First_Name	ActivityName	DateCoached	TrainingPassed
	Jesmond Beauty Clinic	Sophie	Waxing	2017-03-05 00:0...	False

4.2.8 All Reviews

This view allows customers to see all current reviews, good and bad, for all salons. This will allow them to see who is doing well and who is not.



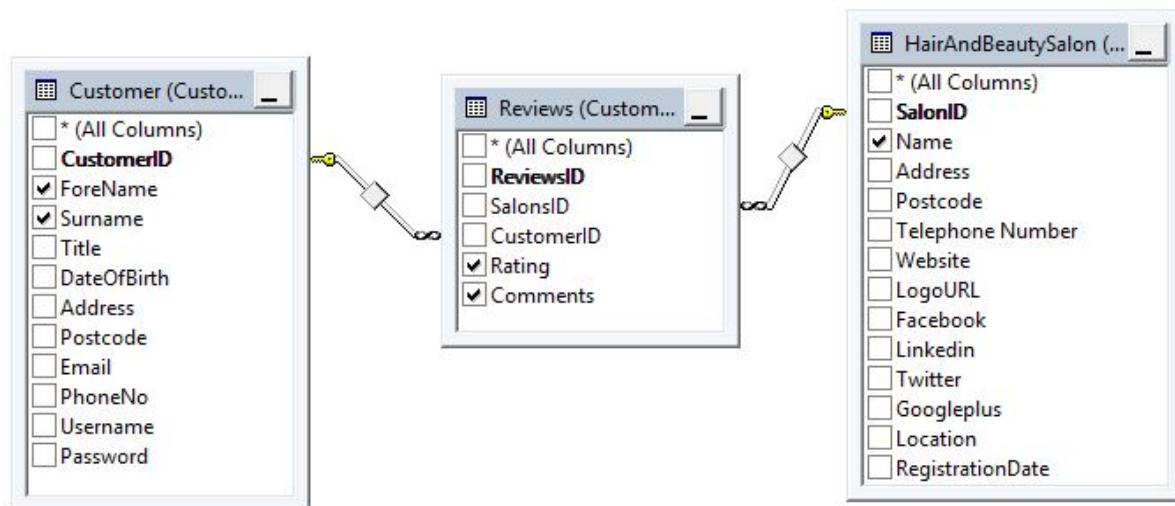
```

SELECT Customer.Customer.ForeName, Customer.Customer.Surname, Customer.Reviews.Rating,
       Salon.HairAndBeautySalon.Name, Customer.Reviews.Comments
FROM Customer.Customer INNER JOIN
     Customer.Reviews ON Customer.Customer.CustomerID = Customer.Reviews.CustomerID INNER JOIN
     Salon.HairAndBeautySalon ON Customer.Reviews.SalonsID = Salon.HairAndBeautySalon.SalonID
  
```

ForeName	Surname	Rating	Name	Comments
Adam	Smith	9	Jesmond Beauty Clinic	Really good, pleased with my hair and will certainly be booking again!
James	Coils	5	BONAPPEFEET	Please with my treatment but the staff were not very friendly.
Helen	Ferguson	3	Miss Nails	Certainly will not both with Miss Nails Again that is for certain.
Ruth	Flemming	7	Angels Tattoo's And Piercing	Awesome love my new tattoo
Latisha	Brown	8	The Hair Studio	MAGNIFIQUE!!!
Elaine	Simpson	10	Guappo Hair Design	Thoroughly enjoyed it, the staff treated me like royalty.

4.2.9 Positive Reviews

This view allows users to only see the salons that are getting positive reviews, a positive review in this instance is anything higher than a rating of 5.



```

SELECT Customer.Customer.ForeName, Customer.Customer.Surname, Customer.Reviews.Rating,
       Salon.HairAndBeautySalon.Name, Customer.Reviews.Comments

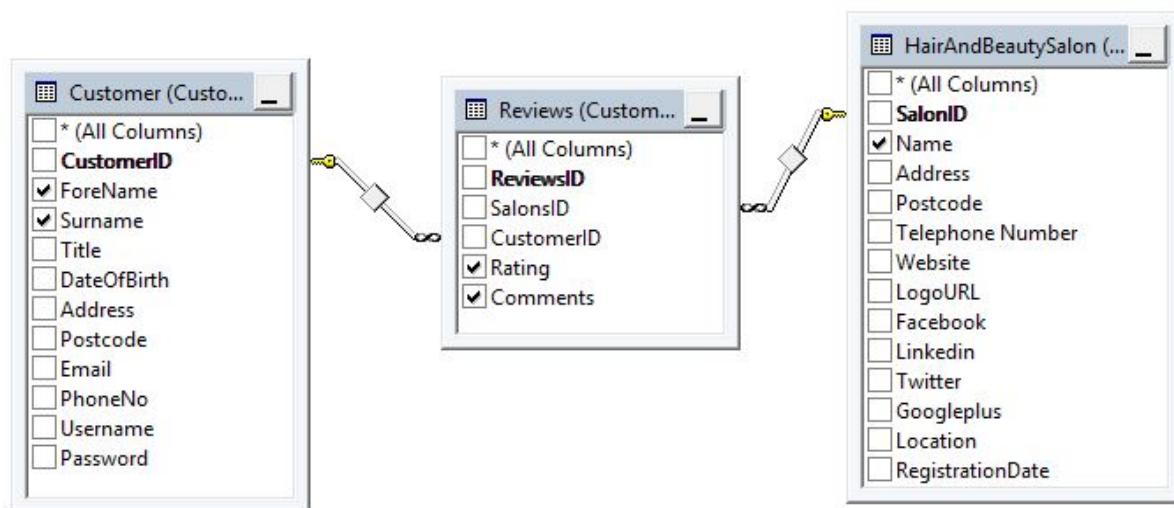
FROM Customer.Customer INNER JOIN
     Customer.Reviews ON Customer.Customer.CustomerID = Customer.Reviews.CustomerID INNER JOIN
     Salon.HairAndBeautySalon ON Customer.Reviews.SalonsID = Salon.HairAndBeautySalon.SalonID

WHERE (Customer.Reviews.Rating > 5)
  
```

ForeName	Surname	Rating	Name	Comments
Adam	Smith	9	Jesmond Beauty Clinic	Really good, pleased with my hair and will certainly be booking again!
Ruth	Flemming	7	Angels Tattoo's And Piercing	Awesome love my new tattoo
Latisha	Brown	8	The Hair Studio	MAGNIFIQUE!!!
Elaine	Simpson	10	Guppo Hair Design	Thoroughly enjoyed it, the staff treated me like royalty.

4.2.10 Negative/Neutral Reviews

This view allows users to only see those salons that are getting a neutral or negative review, in this instance that would be anything less or equal to 5.



```

SELECT Customer.Customer.ForeName, Customer.Customer.Surname, Customer.Reviews.Rating,
       Salon.HairAndBeautySalon.Name, Customer.Reviews.Comments

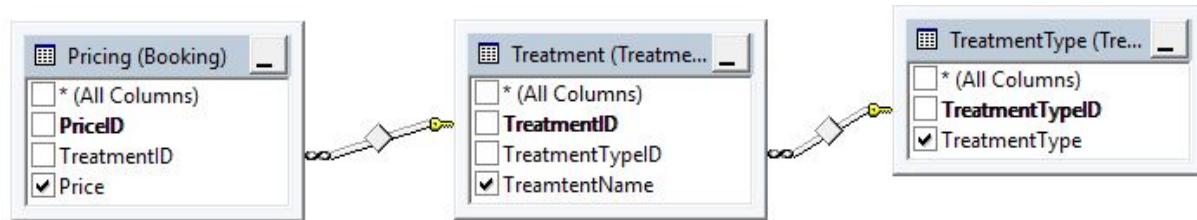
FROM    Customer.Customer INNER JOIN
        Customer.Reviews ON Customer.Customer.CustomerID = Customer.Reviews.CustomerID INNER JOIN
        Salon.HairAndBeautySalon ON Customer.Reviews.SalonsID = Salon.HairAndBeautySalon.SalonID

WHERE   (Customer.Reviews.Rating <= 5)
  
```

James	Coils	5	BONAPPEFEET	Please with my treatment but the staff were not very friendly.
Helen	Ferguson	3	Miss Nails	Certainly will not both with Miss Nails Again that is for certain.

4.2.11 Price List View

This allows the salon to advertise their full price list for the user's easy viewing.



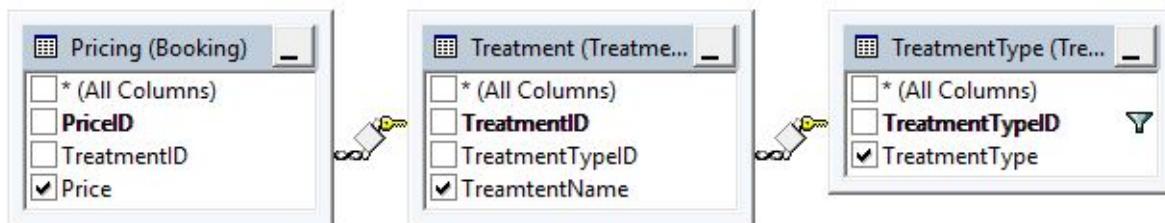
```

SELECT Treatment.TreatmentType.TreatmentType, Treatment.Treatment.TreamtentName, Booking.Pricing.Price
FROM Booking.Pricing INNER JOIN
     Treatment.Treatment ON Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID INNER JOIN
     Treatment.TreatmentType ON Treatment.Treatment.TreatmentTypeID = Treatment.TreatmentType.TreatmentTypeID
  
```

TreatmentType	TreamtentName	Price
Eyebrows	Eyebrow Re-shape	10.99
Mens Traditional cut	Short back and sides	10.99
Mens Trend Cut	Top Knot	15.99
Beard work	Beard Trim	9.99
Mens Colouring	Re-colour	39.99
Nail Art	Custom Nail Art	15.99
Womans trim	Fringe trim	9.99
Womans full head colour	Slight Colour change	29.99
Womans full head colour	Complete Colour change	75.00
Tattoo	New Tattoo	100 p/h
Tattoo	Tattoo Cover-up	100 p/h
Tanning	Full Body Tan	40.00

4.2.12 Certain Price Viewing

If a salon only does certain TreatmentType, this is a way of showing their services, in this instance is only those that are equal to TreatmentTypeID = 9 (Woman's full head colour). This is very easy to alter to add more services in.



```
SELECT Treatment.TreatmentType.TreatmentType, Treatment.Treatment.TreatmentName, Booking.Pricing.Price
FROM Booking.Pricing INNER JOIN
     Treatment.Treatment ON Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID INNER JOIN
     Treatment.TreatmentType ON Treatment.Treatment.TreatmentTypeID = Treatment.TreatmentType.TreatmentTypeID
WHERE (Treatment.TreatmentType.TreatmentTypeID = 9)
```

TreatmentType	TreatmentName	Price
Womans full head colour	Slight Colour change	29.99
Womans full head colour	Complete Colour change	75.00

4.3 SQL Programming

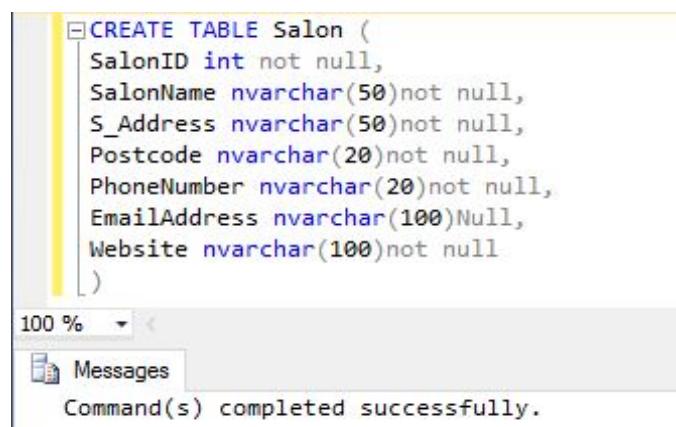
The following code is my demonstration of both Data Definition Language (DDL) and Data Manipulation Language (DML).

4.3.1 Data Definition Language

Data Definition Language is used to define database data structures and define data within it. Within SQL, DDL is used to create, alter, drop and more. I will now demonstrate some DDL queries.

4.3.1.1 Create Table

The Create Table statement is used to create a new table within the desired database. In this instance I have created a salon table.



A screenshot of the SQL Server Management Studio (SSMS) interface. The query window contains the following SQL code:

```
CREATE TABLE Salon (
    SalonID int not null,
    SalonName nvarchar(50)not null,
    S_Address nvarchar(50)not null,
    Postcode nvarchar(20)not null,
    PhoneNumber nvarchar(20)not null,
    EmailAddress nvarchar(100)Null,
    Website nvarchar(100)not null
)
```

The status bar at the bottom shows "100 %". Below the query window is a message window titled "Messages" with the text "Command(s) completed successfully."

The “Create Table” query, above, created the following Salon table.

	Column Name	Data Type	Allow Nulls
	SalonID	int	<input type="checkbox"/>
	SalonName	nvarchar(50)	<input type="checkbox"/>
	S_Address	nvarchar(50)	<input type="checkbox"/>
	Postcode	nvarchar(20)	<input type="checkbox"/>
	PhoneNumber	nvarchar(20)	<input type="checkbox"/>
	EmailAddress	nvarchar(100)	<input checked="" type="checkbox"/>
	Website	nvarchar(100)	<input type="checkbox"/>

4.3.1.2 Create an Index

The CREATE INDEX query is used to create indexes within tables that are already created. They are used to get data from the Database quickly.

```
CREATE INDEX AdamsIndex  
ON Salon (SalonName);
```

100 %

Messages

Command(s) completed successfully.

4.3.1.3 Create a Unique Index

This is the creation of a unique index. Other indexes with the same values are not allowed to be used within the same database.

```
CREATE UNIQUE INDEX AdamsUniqueIndex  
ON Salon (SalonName);
```

100 %

Messages

Command(s) completed successfully.

4.3.1.4 Drop Index

The Drop Index query is used to delete an index within a database.

```
Use Assessment;  
DROP Index AdamsIndex ON dbo.Salon;
```

100 %

Messages

Command(s) completed successfully.

4.3.1.5 Drop Table

The DROP TABLE query is used to delete an existing table within a database.

```
SQLQuery5.sql -...MSMITH\Adam (55)* X  
DROP TABLE Salon;
```

100 %

Messages

Command(s) completed successfully.

4.3.1.6 Alter Table - Add Column

The Alter table query is used to alter certain objects within a table. In this instance I have used it to add another column within the Salon table.

```
ALTER TABLE Salon
ADD NewColumn nvarchar(250);
```

100 % < Messages
Command(s) completed successfully.

The previous code added the “NewColumn” as in the figure, below.

Column Name	Data Type	Allow Nulls
SalonID	int	<input type="checkbox"/>
SalonName	nvarchar(50)	<input type="checkbox"/>
S_Address	nvarchar(50)	<input type="checkbox"/>
PostCode	nvarchar(20)	<input type="checkbox"/>
PhoneNumber	nvarchar(20)	<input type="checkbox"/>
EmailAddress	nvarchar(100)	<input checked="" type="checkbox"/>
Website	nvarchar(100)	<input type="checkbox"/>
NewColumn	nvarchar(250)	<input checked="" type="checkbox"/>

4.3.1.7 Alter Table – Modify Column

The Alter Column can change the Data Type of a previously defined database object. In this instance I will be changing column “New Column” from nvarchar(250) to int.

```
ALTER TABLE Salon
ALTER COLUMN NewColumn int;
```

100 % < Messages
Command(s) completed successfully.

The previous query changed datatype to int, as can be seen in the following figure.

Column Name	Data Type	Allow Nulls
SalonID	int	<input type="checkbox"/>
SalonName	nvarchar(50)	<input type="checkbox"/>
S_Address	nvarchar(50)	<input type="checkbox"/>
PostCode	nvarchar(20)	<input type="checkbox"/>
PhoneNumber	nvarchar(20)	<input type="checkbox"/>
EmailAddress	nvarchar(100)	<input checked="" type="checkbox"/>
Website	nvarchar(100)	<input type="checkbox"/>
NewColumn	int	<input checked="" type="checkbox"/>

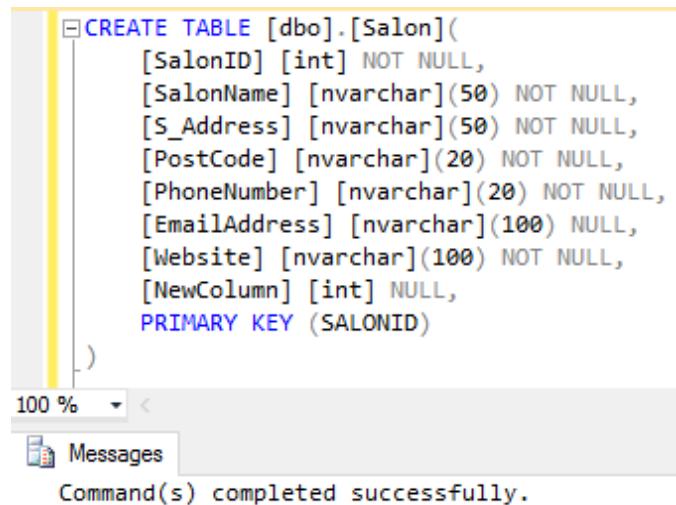
4.3.1.8 Constraints

Constraints are used to set rules for any data within a database table. The most commonly used constraints are (W3schools, 2017):

- **Not Null / Null** – Both were used in 4.2.1 Create Table. Null meaning that a column is allowed to have NULL value and Not Null meaning that a column cannot have Null.
- **Primary Key**
- **Foreign Key**
- **Check**
- **Default**
- **Index** – Looked at in 4.2.2.

4.3.1.8.1 Primary Key

A Primary Key constraint is used to create Unique ID's for records within database tables. A Primary Key cannot contain Null values.



```
CREATE TABLE [dbo].[Salon](
    [SalonID] [int] NOT NULL,
    [SalonName] [nvarchar](50) NOT NULL,
    [S_Address] [nvarchar](50) NOT NULL,
    [PostCode] [nvarchar](20) NOT NULL,
    [PhoneNumber] [nvarchar](20) NOT NULL,
    [EmailAddress] [nvarchar](100) NULL,
    [Website] [nvarchar](100) NOT NULL,
    [NewColumn] [int] NULL,
    PRIMARY KEY (SALONID)
)
```

100 % <

Messages

Command(s) completed successfully.

The previous code created the following table with the SalonID column as the Primary Key.

	Column Name	Data Type	Allow Nulls
↑	SalonID	int	<input type="checkbox"/>
	SalonName	nvarchar(50)	<input type="checkbox"/>
	S_Address	nvarchar(50)	<input type="checkbox"/>
	PostCode	nvarchar(20)	<input type="checkbox"/>
	PhoneNumber	nvarchar(20)	<input type="checkbox"/>
	EmailAddress	nvarchar(100)	<input checked="" type="checkbox"/>
	Website	nvarchar(100)	<input type="checkbox"/>
	NewColumn	int	<input checked="" type="checkbox"/>

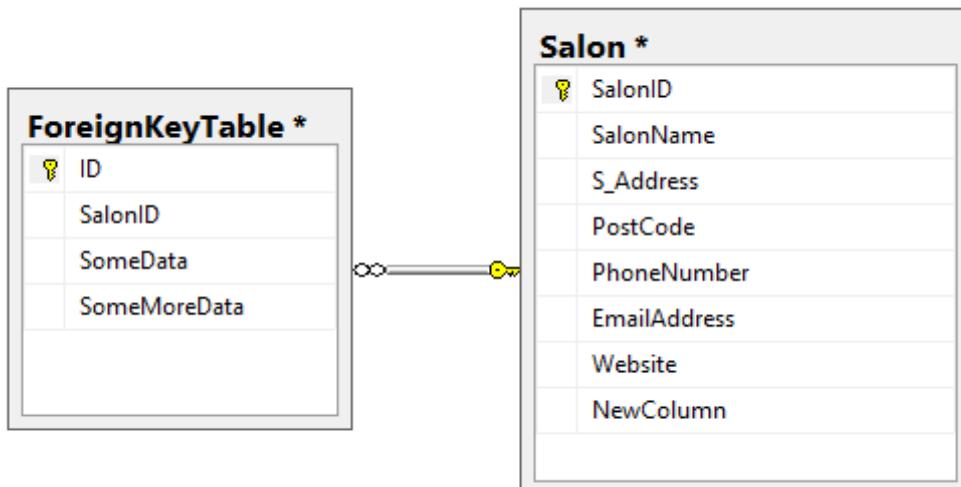
4.3.1.8.2 Foreign Key

A foreign Key constraints is used to link two tables together. A foreign key in one table always points to a primary key in any other table within the database, this is sometimes called a referencing key (TutorialsPoint, 2014).

```
ALTER TABLE ForeignKeyTable
ADD FOREIGN KEY (SalonID)
REFERENCES Salon(SalonID);
```

100 % < Messages
Command(s) completed successfully.

The previous code added the Primary Key from the Salon ID table into the ForeignKeyTable as a foreign key, as can be seen in the next figure.



4.3.1.8.3 Check

The check constraint can be used to set a limit for a certain value. If a check constraint is used then only values that are allowed can be entered. The following example is a salons items which will be set to check at ≥ 50 (larger or equal to fifty). This will ensure that a salon always has more than 50 items.

```
ALTER TABLE Salon
ADD CHECK ([Items]>=50);
```

100 % <

Messages

Command(s) completed successfully.

The previous code snippet produced the following constraint.

Selected Check Constraint:

CK_Salon_Items_286302EC

Editing properties for existing check constraint.

(General)	Expression [[Items]>=(50))
Identity	(Name) CK_Salon_Items_286302EC Description
Table Designer	Check Existing Data On Create Yes Enforce For INSERTs And UPD Yes Enforce For Replication Yes

4.3.1.8.4 Default

The default constraint is used to give a column a default value. This default value will be added if no other value is given. This is particularly useful if there are a batch of records coming through with a certain table column with repeated identical values.

```
ALTER TABLE Salon
ALTER COLUMN Salary SET DEFAULT '20,000';
```

100 % <

Messages

Command(s) completed successfully.

4.3.1.9 Create View

A view is a virtual Table. It contains data from rows and columns that are in existing tables within the database. In this example the view is for management can see if their employees have passed their training.

The screenshot shows a SQL query window in SSMS. The code creates a view named 'Training Passed Example' with the following SELECT statement:

```
CREATE VIEW [Training Passed Example] AS
SELECT
    Employee.Employee.First_Name, Training.TrainingActivity.ActivityName,
    Training.EmployeeTraining.DateCoached, Training.EmployeeTraining.TrainingPassed
FROM
    Training.TrainingCategory INNER JOIN
    Training.TrainingActivity ON Training.TrainingCategory.TrainingCategoryID = Training.TrainingActivity.TrainingCategoryID INNER JOIN
    Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID = Training.EmployeeTraining.TrainingActivityID INNER JOIN
    Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID
WHERE [Training.EmployeeTraining.TrainingPassed] = 1
```

Below the code, a message box indicates: "Command(s) completed successfully."

Once executed and the database was refreshed, the following view was created.

dbo.Training Passed Example

When opened the view shows the following data.

	First_Name	ActivityName	DateCoached	TrainingPassed
	Karl	MensCut	2017-03-05 00:00:00.000	True
	Brogham	BeardPrecision	2016-12-12 00:00:00.000	True
	Helen	Tanning	2017-11-12 00:00:00.000	True

It shows this data because of there WHERE clause, this gets all of the employees who passed their training. It is equal to one because the datatype is Bit (0 or 1).

4.4.2 Data Manipulation Language

Data Manipulation Language (DML) is used to create and modify database objects within a database. I will now demonstrate my knowledge of DML through multiple manipulation commands listed below.

4.4.2.1 Select All

The Select All command is used to select all data from a table. The * sign is used indicating that all data is needed from the Customer Schema, in the Reviews table.

A screenshot of the SQL Server Management Studio (SSMS) interface. The query window at the top contains the SQL command: `Select * FROM Customer.Reviews;`. Below the query window is a results grid titled "Results". The results grid displays six rows of data from the Reviews table, with columns labeled: ReviewsID, SalonsID, CustomerID, Rating, and Comments. The data is as follows:

	ReviewsID	SalonsID	CustomerID	Rating	Comments
1	1	6	1	9	Really good, pleased with my hair and will certainly be booking again!
2	2	4	2	5	Please with my treatment but the staff were not very friendly.
3	3	3	3	3	Certainly will not both with Miss Nails Again that is for certain.
4	4	5	4	7	Awesome love my new tattoo
5	5	2	5	8	MAGNIFIQUE!!!
6	6	1	6	10	Thoroughly enjoyed it, the staff treated me like royalty.

4.4.2.2 Select Column(s)

Rather than selecting all data within a table, the following command is used to select one or more columns within a table. This has been used to get only the Rating and Comments columns from the Customer Schema in the Reviews table.

A screenshot of the SQL Server Management Studio (SSMS) interface. The query window at the top contains the SQL command: `Select Rating, Comments FROM Customer.Reviews;`. Below the query window is a results grid titled "Results". The results grid displays six rows of data from the Reviews table, with columns labeled: Rating and Comments. The data is as follows:

	Rating	Comments
1	9	Really good, pleased with my hair and will certainly be booking again!
2	5	Please with my treatment but the staff were not very friendly.
3	3	Certainly will not both with Miss Nails Again that is for certain.
4	7	Awesome love my new tattoo
5	8	MAGNIFIQUE!!!
6	10	Thoroughly enjoyed it, the staff treated me like royalty.

4.4.2.3 Select using WHERE

To find specific data the WHERE key word is used. It is usually used to select information from a single customer, entry. In this example it is all data is brought from Customer where there title is equal to Mr.

```
SELECT * FROM Customer.Customer WHERE Customer.Customer.Title = 'Mr';
```

The screenshot shows the SQL query above and the resulting table below. The table has columns: CustomerID, ForeName, Surname, Title, DateOfBirth, Address, Postcode, Email, PhoneNo, Username, and Password. Two rows are returned:

	CustomerID	ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email	PhoneNo	Username	Password
1	7	Ted	Grant	Mr	1983-02-02 00:00:00.000	81 Welfield Crescent	SR4 9PL	Granty_1212@hotmail.co.uk	07824665565	Granty_1212	PassW0rd!
2	8	Steven	Blakey	Mr	1985-08-08 00:00:00.000	21 Shotton View, Mount Pleasant	M3 8PL	Blakey1985@yahoo.co.uk	07862486682	Blakey_Senior	834_242!!

4.4.2.4 Select using WHERE Range

Using range within a where statement is specifically beneficial if there is a lot of data within a database. The following statement gets ratings which are larger and equal to 7.

```
Select Rating, Comments FROM Customer.Reviews WHERE Rating >=7;
```

The screenshot shows the SQL query above and the resulting table below. The table has columns: Rating and Comments. Four rows are returned:

	Rating	Comments
1	9	Really good, pleased with my hair and will certainly be booking again!
2	7	Awesome love my new tattoo
3	8	MAGNIFIQUE!!!
4	10	Thoroughly enjoyed it, the staff treated me like royalty.

4.4.2.5 OR Operator

The WHERE statement can be partnered with the OR operator. This will display the relevant data if the conditions of the statement are true. The following example brings the CustomerID, Forename, Surname and Title of the Customer whose forename are equal to Megan or Elaine.

```
SELECT CustomerID, ForeName, Surname, Title
FROM Customer.Customer
WHERE Customer.Customer.Forename = 'Megan' OR Customer.Customer.Forename = 'Elaine';
```

The screenshot shows the SQL query above and the resulting table below. The table has columns: CustomerID, ForeName, Surname, and Title. Two rows are returned:

	CustomerID	ForeName	Surname	Title
1	6	Elaine	Simpson	Mrs
2	10	Megan	Slater	Miss

4.4.2.6 ALL

As the * symbol is used to get all data from a table, if you want all data from a certain column the ALL operator would need to be used. The following shows ALL data from the ContactName and Address columns from the ProductSuppliers table.

The screenshot shows a SQL query window with the following content:

```
SELECT ALL ContactName, Address FROM Products.ProductSuppliers;
```

The results pane displays the following data:

	ContactName	Address
1	Gill Burgess	33 Shadforth Close
2	Barbara Yews	Bothar Na Mine, Ballybane
3	Bill Myers	Unit 3 The Arc, 25 Colquhoun Ave,
4	Kimberley Jayne	62 Buxton Rd, Stockport,
5	Marg Kay	4th floor, Berkshire House,

4.4.2.7 ORDER BY

The ORDER BY command is used to put column(s) in either ascending (ASC) or descending (DESC) order. In this example I have selected all from the Equipment table, the data is sorted in ascending order by the "EquipmentName" Column.

The screenshot shows a SQL query window with the following content:

```
SELECT * FROM Equipment.Equipment  
ORDER BY EquipmentName ASC;
```

The results pane displays the following data:

	EquipmentID	EquipmentTypeID	Make	EquipmentName
1	1	1	Wahl	Clippers
2	2	1	Diva	Hairdryers
3	8	2	CND	Nail Brush
4	7	2	CND	Nail File
5	5	1	Jaguar	Scissors
6	11	4	St. Tropez	Spray Gun
7	4	1	Cloud9	Straightners
8	12	4	St. Tropez	Tanning Tent
9	13	5	Erikson	Tattoo Pen
10	3	1	Cloud9	Tongs
11	6	2	Rio	UV Polish Lamp
12	9	3	Hive	Wax Pot
13	10	3	Option	Wax Strips

4.4.2.8 DISTINCT

The DISTINCT statement is used to only return unique values, It would not return duplicate data. Here it is used to determine what titles are used for customers.

A screenshot of SQL Server Management Studio (SSMS) showing the results of a query. The query is:

```
SELECT DISTINCT Title FROM Customer.Customer;
```

The results pane shows a table with one column, "Title", containing five rows:

	Title
1	NULL
2	Dr
3	Miss
4	Mr
5	Mrs

4.4.2.9 INSTER INTO

The INSERT INTO statement is used to insert data into a table. In this example I have inserted new data into the EquipmentType table, the new data is ID = 6

A screenshot of SQL Server Management Studio (SSMS) showing the results of a query. The query is:

```
INSERT INTO Equipment.EquipmentType (EquipmentTypeID, EquipmentTypeName)
VALUES ('6', 'NewTreatmentName');
```

The results pane shows the message:

(1 row(s) affected)

A screenshot of SQL Server Management Studio (SSMS) showing the results of a query. The query is:

```
SELECT * FROM Equipment.EquipmentType;
```

The results pane shows a table with two columns, "EquipmentTypeID" and "EquipmentTypeName". There are six rows in the table, including the newly inserted row at ID 6.

	EquipmentTy...	EquipmentTypeName
▶	1	HairEquipment
	2	NailEquipment
	3	EyebrowEquipment
	4	TanningEquipment
	5	Tattoo
	6	NewTreatmentName

4.4.2.10 UPDATE

The UPDATE Statement updates current values within a table to new updated values. In this example I have updated The “Title” and “Address” Columns where the Customer ID is equal to one. Has I left the WHERE clause out, this would have changed both the Title and Address entire columns for all customers.

```
UPDATE Customer.Customer
SET Title = 'Mr', Address = 'New Address'
Where CustomerID = 1;
(1 row(s) affected)
```

The UPDATE Statement code changed the relevant values, as seen below.

	CustomerID	ForeName	Surname	Title	DateOfBirth	Address
▶	1	Adam	Smith	Mr	1988-07-29 00:00:00.000	New Address

4.4.2.11 DELETE

The DELETE statement can be used to delete an entire database, a table within a database or a column within the table. In this example I will be deleting all information from a column within a table.

```
DELETE FROM Salon WHERE SalonID = 1;
```

This code deleted all the data and values of the current Salon with ID equal to one.

4.4.2.12 TOP

The SELECT TOP Statement is used to select a certain number of records. It can be used multiple ways as seen below. The first example is selecting all from the top two records.

SELECT TOP 2 * FROM Employee.Employee;							
100 %							
Results		Messages					
1	EmployeeID	SalonID	EmployeeRoleID	First_Name	Last_Name	Username	Password
2	1	1	1	Phil	Unsworth	P.Unsworth	Ph1lUnsy1!
	2	1	2	Sam	Unsworth	S.Unsworth	Chicken123!

4.4.2.13 TOP - PERCENT

The TOP PERCENT Statement is used to get a certain percentage of records held within a table. In this example I have used it to get the top 40% of the records held within the Employee table.

A screenshot of the SQL Server Management Studio interface. The query window contains the following SQL code:

```
SELECT TOP 40 PERCENT * FROM Employee.Employee;
```

The results pane shows the following data from the Employee table:

	EmployeeID	SalonID	EmployeeRoleID	First_Name	Last_Name	Username	Password
1	1	1	1	Phil	Unsworth	P.Unsworth	Ph1lUnsy1!
2	2	1	2	Sam	Unsworth	S.Unsworth	Chicken123!
3	3	1	3	Helen	Wilkinson	H.Wilkinson	Sm1thy1234!
4	4	1	4	Brogham	Garfield	B.Garfield	Passw0rd!

4.4.2.14 TOP - WHERE

Using a WHERE clause within a TOP statement can be used to get very specific records. In this example I have used it to get the TOP four records where the SALONID is equal to 1.

A screenshot of the SQL Server Management Studio interface. The query window contains the following SQL code:

```
SELECT TOP 4 * FROM Employee.Employee WHERE SalonID = 1;
```

The results pane shows the following data from the Employee table:

	EmployeeID	SalonID	EmployeeRoleID	First_Name	Last_Name	Username	Password
1	1	1	1	Phil	Unsworth	P.Unsworth	Ph1lUnsy1!
2	2	1	2	Sam	Unsworth	S.Unsworth	Chicken123!
3	3	1	3	Helen	Wilkinson	H.Wilkinson	Sm1thy1234!
4	4	1	4	Brogham	Garfield	B.Garfield	Passw0rd!

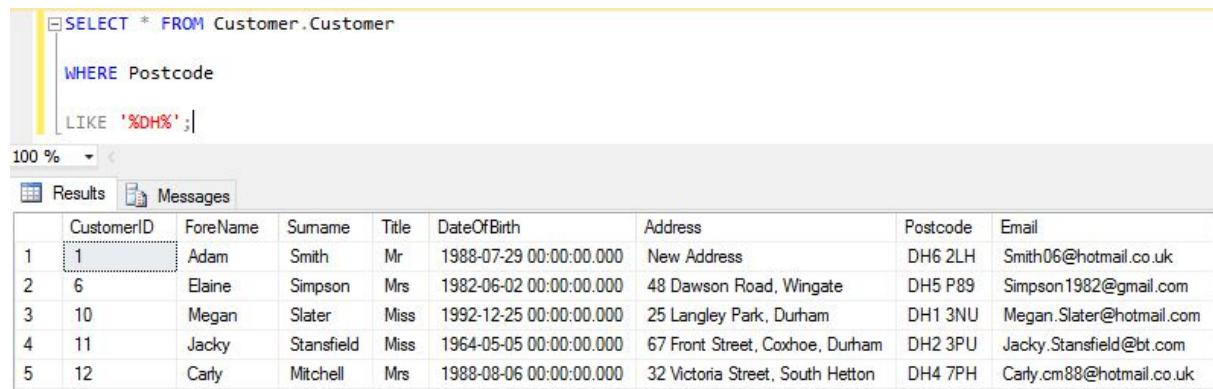
4.4.2.15 MIN / MAX

Using MIN and MAX is used to retrieve with the largest or smallest record within a table. In this example I have used MAX to get the largest price from the Pricing table.

```
SELECT MAX(Booking.Pricing.Price)
FROM Booking.Pricing; |
```

4.4.2.16 LIKE

The LIKE operator is a very powerful tool to used when searching for records in a database, especially if there are thousands of records. It can be used to find a records, even if you only have partial data to go by. In the following example I have used LIKE to find all records with postcode starting DH (Durham).



```
SELECT * FROM Customer.Customer
WHERE Postcode
LIKE '%DH%';
```

	CustomerID	ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email
1	1	Adam	Smith	Mr	1988-07-29 00:00:00.000	New Address	DH6 2LH	Smith06@hotmail.co.uk
2	6	Elaine	Simpson	Mrs	1982-06-02 00:00:00.000	48 Dawson Road, Wingate	DH5 P89	Simpson1982@gmail.com
3	10	Megan	Slater	Miss	1992-12-25 00:00:00.000	25 Langley Park, Durham	DH1 3NU	Megan.Slater@hotmail.com
4	11	Jacky	Stansfield	Miss	1964-05-05 00:00:00.000	67 Front Street, Coxhoe, Durham	DH2 3PU	Jacky.Stansfield@bt.com
5	12	Carly	Mitchell	Mrs	1988-08-06 00:00:00.000	32 Victoria Street, South Hetton	DH4 7PH	Carly.cm88@hotmail.co.uk

One online source, https://www.w3schools.com/sql/sql_wildcards.asp, states how powerful the LIKE operator can be, by giving both examples and descriptions.

4.4.2.17 JOIN's

IN SQL JOINS are used to get rows from tables and join them together. INNER JOIN has been covered in the VIEWS sections.

They are different types of JOIN (W3schools, 2015):

- **FULL OUTER JOIN** – When a match is found in either left or right table, it returns all records.
- **LEFT OUTER JOIN** – All data from left table is returned, matched data in right table is returned.
- **RIGHT OUTER JOIN** – All data from right table is returned, matched data from left table is returned.
- **INNER JOIN** – Gets all data from left and right tables where a match is found.

4.4.2.18 SELECT INTO

SELECT INTO is used to copy data from a table in one Database into another table. In this example I have taken all information from the Title column in the Customer data and copied into the newly created NewTable.

```
SELECT Title  
INTO NewTable  
FROM Customer.Customer;
```

100 % < Messages

(12 row(s) affected)

- + Booking.Invoice
- + Booking.PaymentMethod
- + Booking.Pricing
- + Customer.Customer
- + Customer.Reviews
- + dbo.NewTable

Title
Dr
NULL
Miss
Mrs
Mrs
Mr
Mr
Miss
Miss
Miss
Mrs

5. Advanced SQL Database Features

In this section I will demonstrate my knowledge of some of the advanced features within SQL.

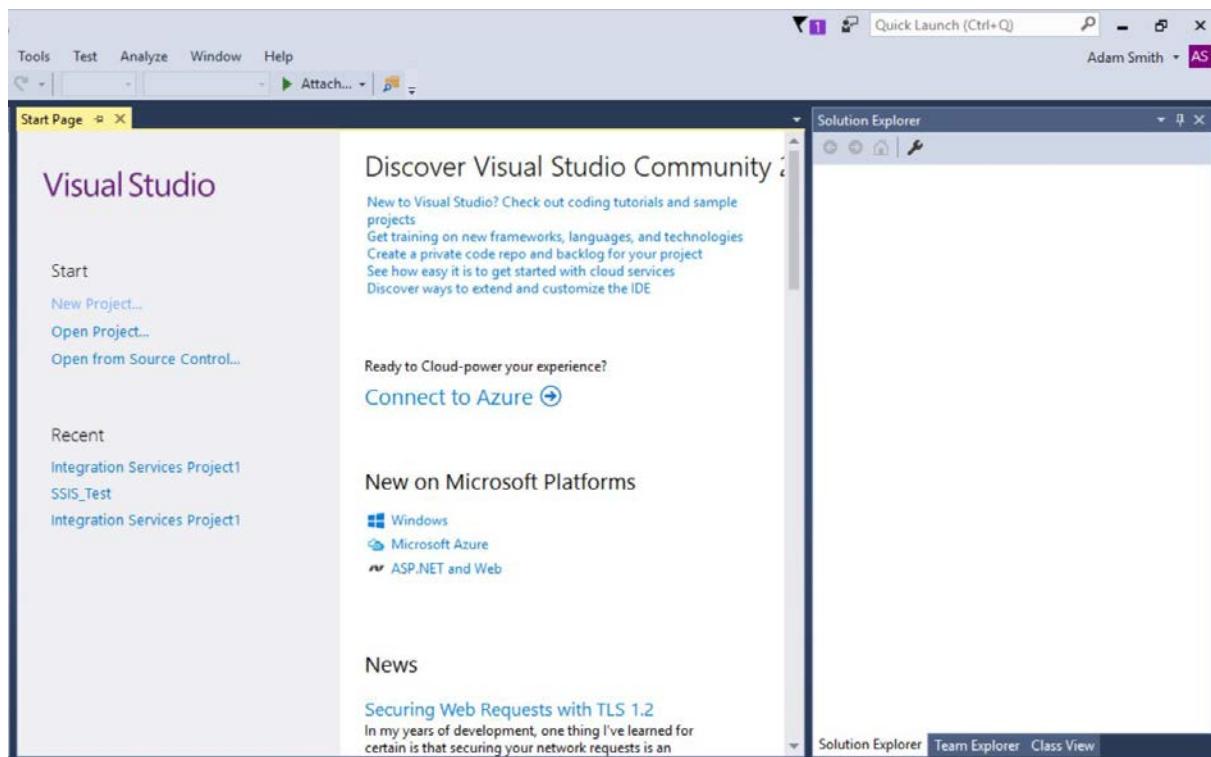
5.1 SQL Server Integration Services (SSIS)

SSIS is a tool used to build ETL processes, extract, transform and load. An SSIS package can be used to extract data from various sources, usually text files, excel documents or other databases. It can be used to transform data, it is clever enough to know, for example, to merge certain files and transform the data in the correct format. It can also load the data into a destination, this makes it easily accessible for employees to see the data.

In my example I will be creating a new package which will show how to automate the importation of data, from a text file, into my database (Microsoft, 2017).

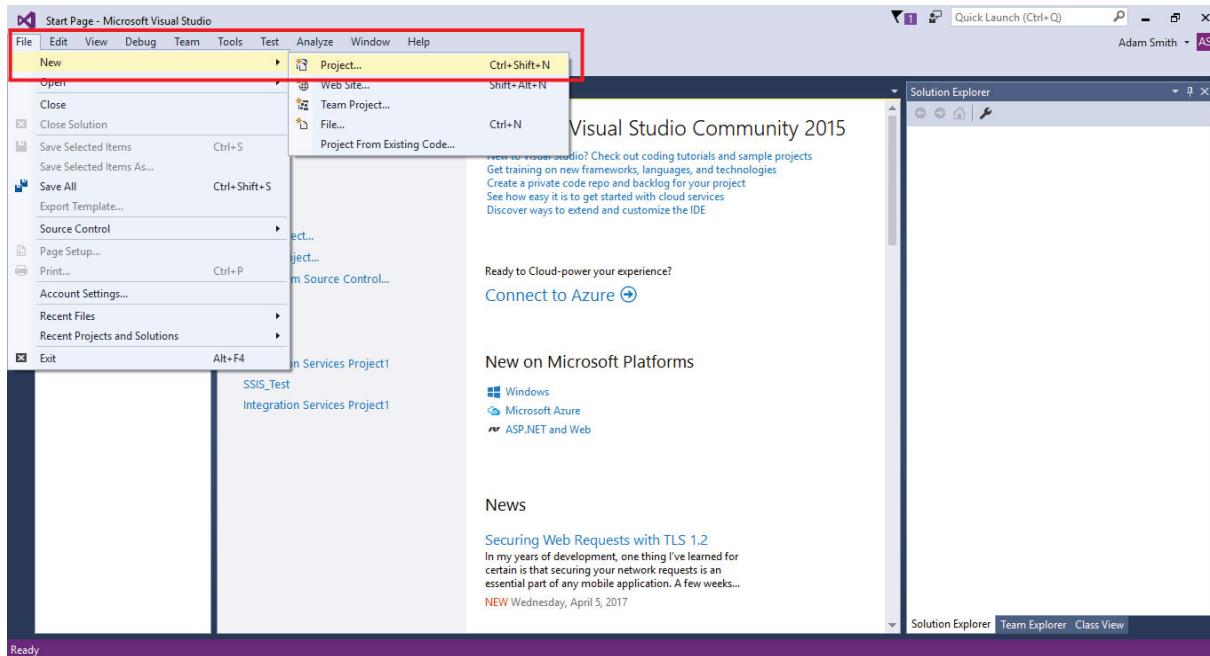
5.1.1 Open Microsoft Studio

I am using Visual Studio 2015, but after research I can confirm this is the same method going back to at least 2008.



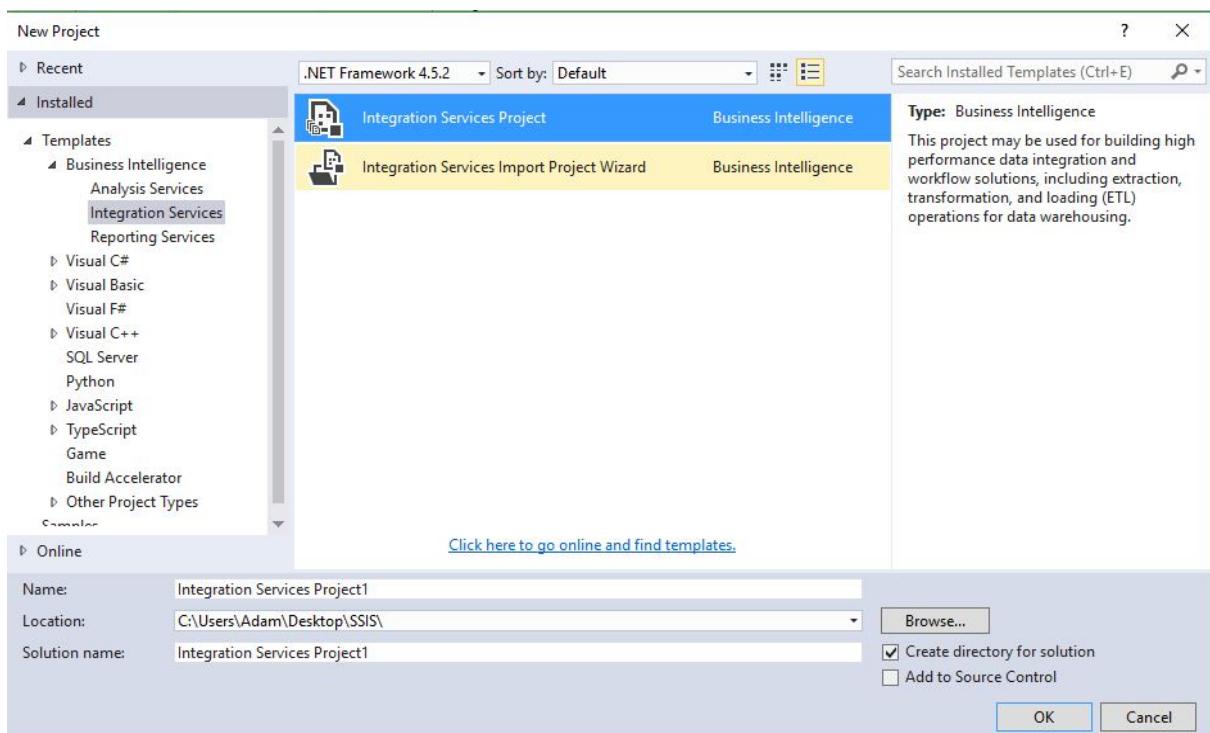
5.1.2 New Project

Once Visual Studio has started up, click file > New > Project.



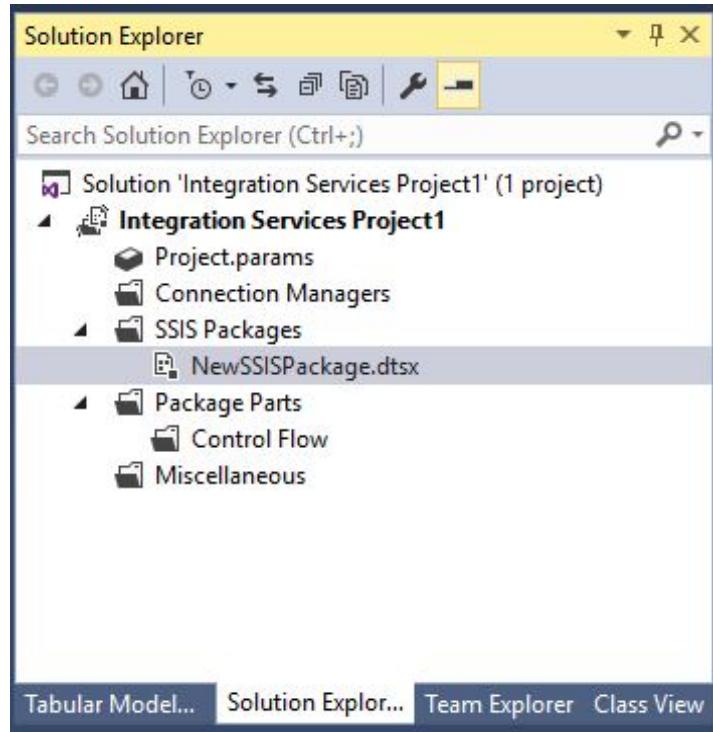
5.1.3 Integration Services Project

Under templates you will see a Business Intelligence drop down, Select Integration Services making sure that the Integration services panel in the middle of the screen is highlighted. Create a name for your project and a location if it differs from the standard location.



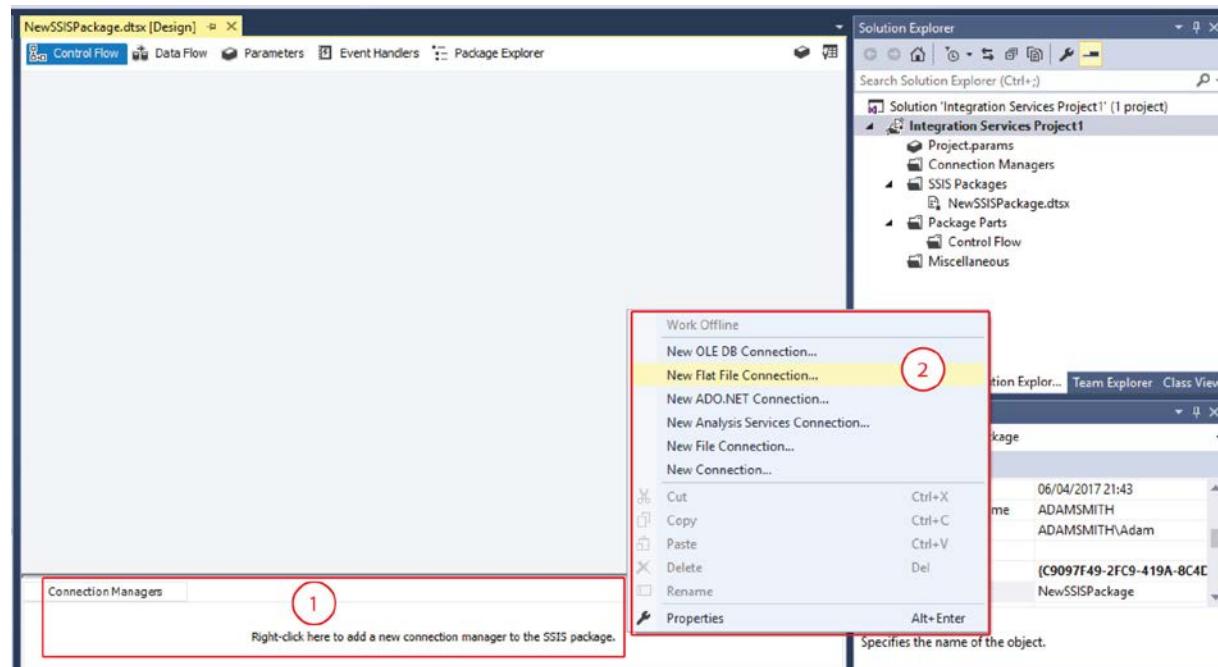
5.1.4 Create New Package Name

It is important to give an appropriate package name, here I have named mine, “NewSSISPackage”. It should always relate to the current project. In the “Solution Explorer” right click on “Package.dtsx” and rename to suit your project.



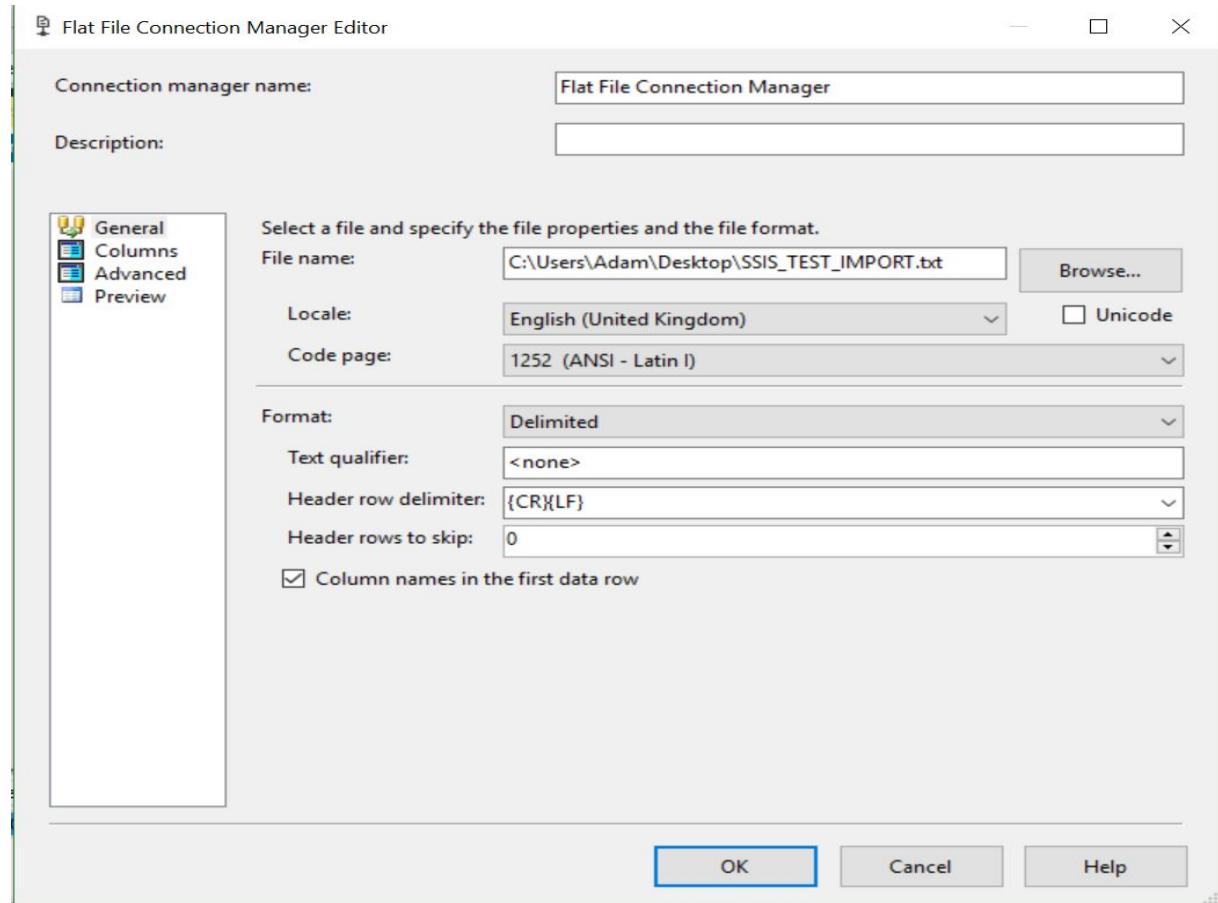
5.1.5 New flat file connection

To add a new flat file connection is a two step process. Firstly, locate the “Connection Managers” area and right click. Secondly, locate “New Flat File Connection” and click it.



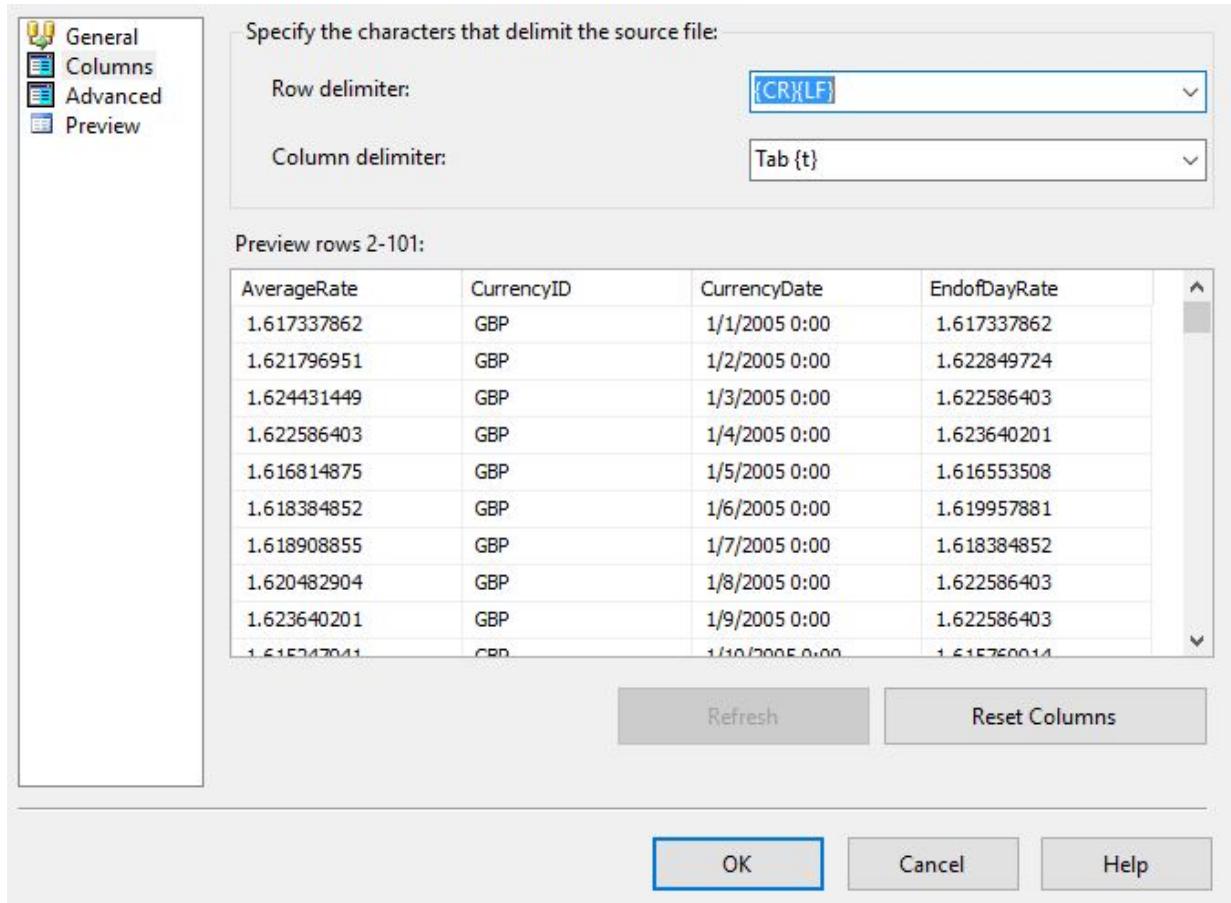
5.1.6 Setting Properties – General

Within the Flat File Connection Manager Editor, select “General”. Select the file which you want automating, in this case its “SSIS_TEST_IMPORT.txt”. Select the format and also select whether you have added column names, I have in this case you I’ve checked the “Column names in the first data row” option. If not you have the change to add them within the Advance section.



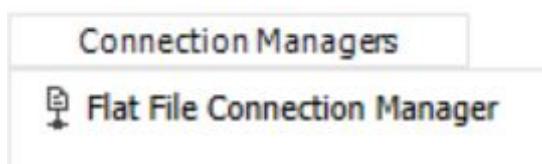
5.1.7 Setting Properties – Columns

The Columns tab shows the data which is separated by tab along with column names. Test data taken from <http://msftisprodsamples.codeplex.com/releases>. Once happy with the columns and data click the ok button.



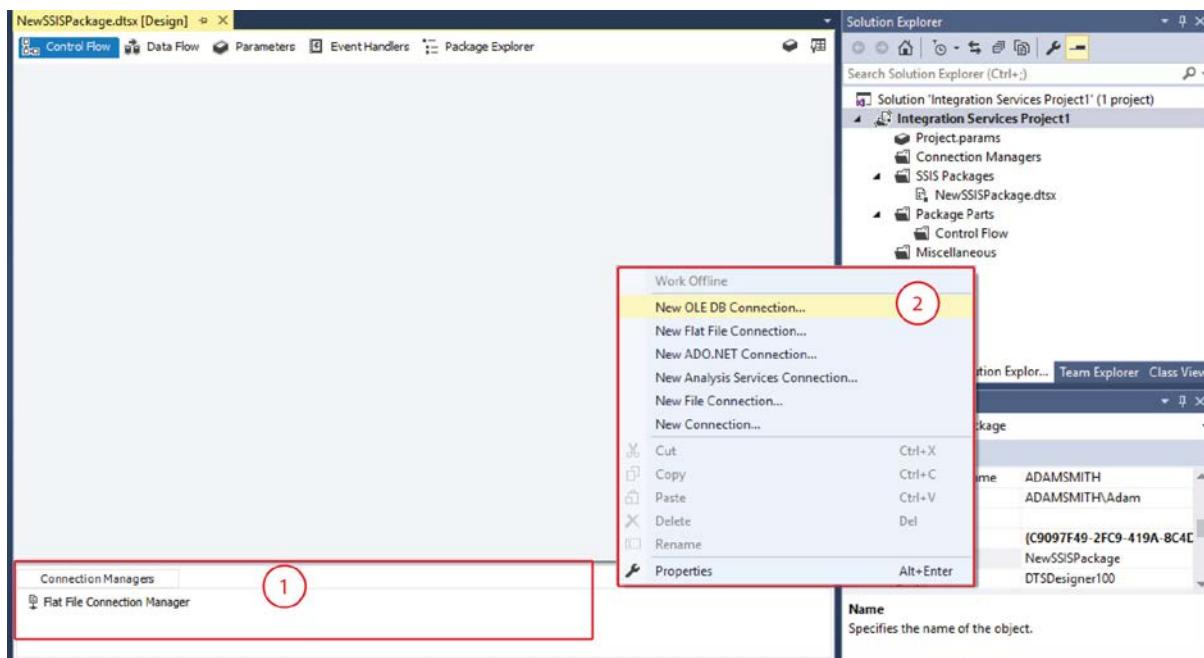
5.1.8 Connection Manager Confirmation

Once clicked okay the new connection should appear in the Connections Manager, at the bottom of the screen.



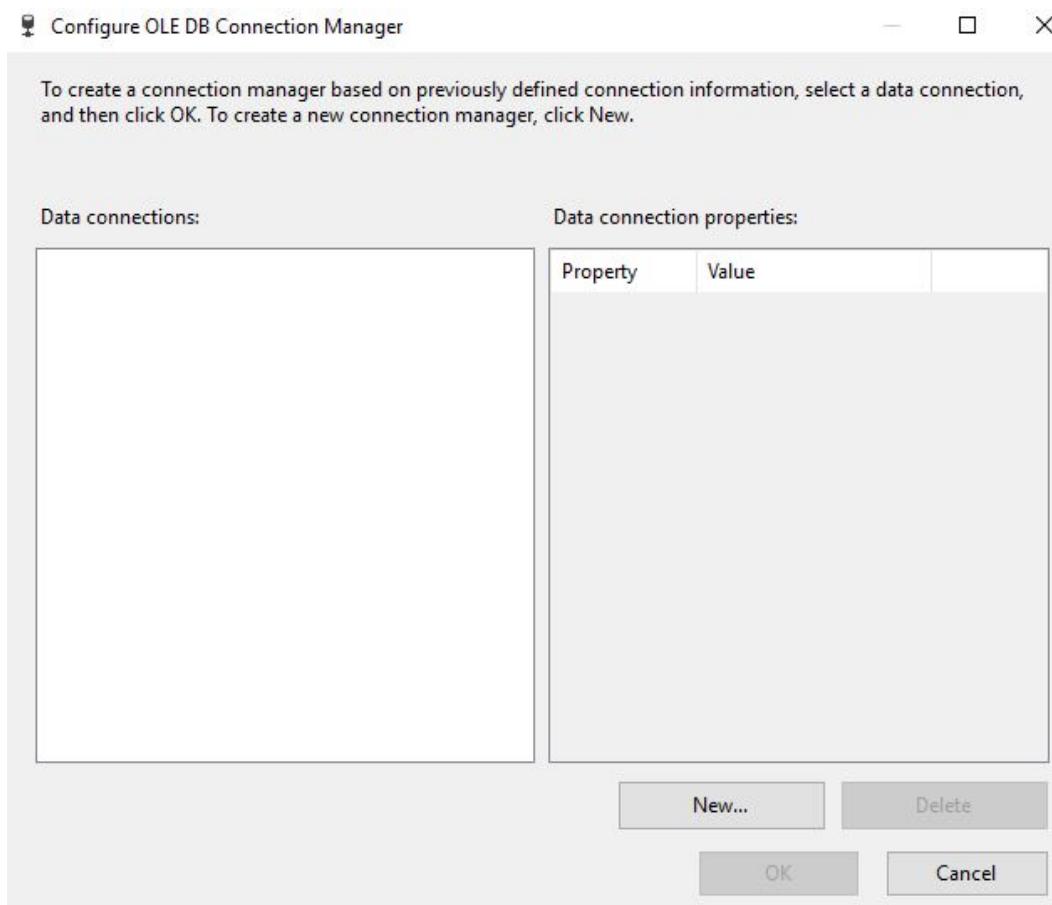
5.1.9 New OLE DB Connection

To add a new OLE DB Connection is a two step process. Firstly, locate the “Connection Managers” area and right click. Secondly, locate “New OLE DB Connection” and click it.



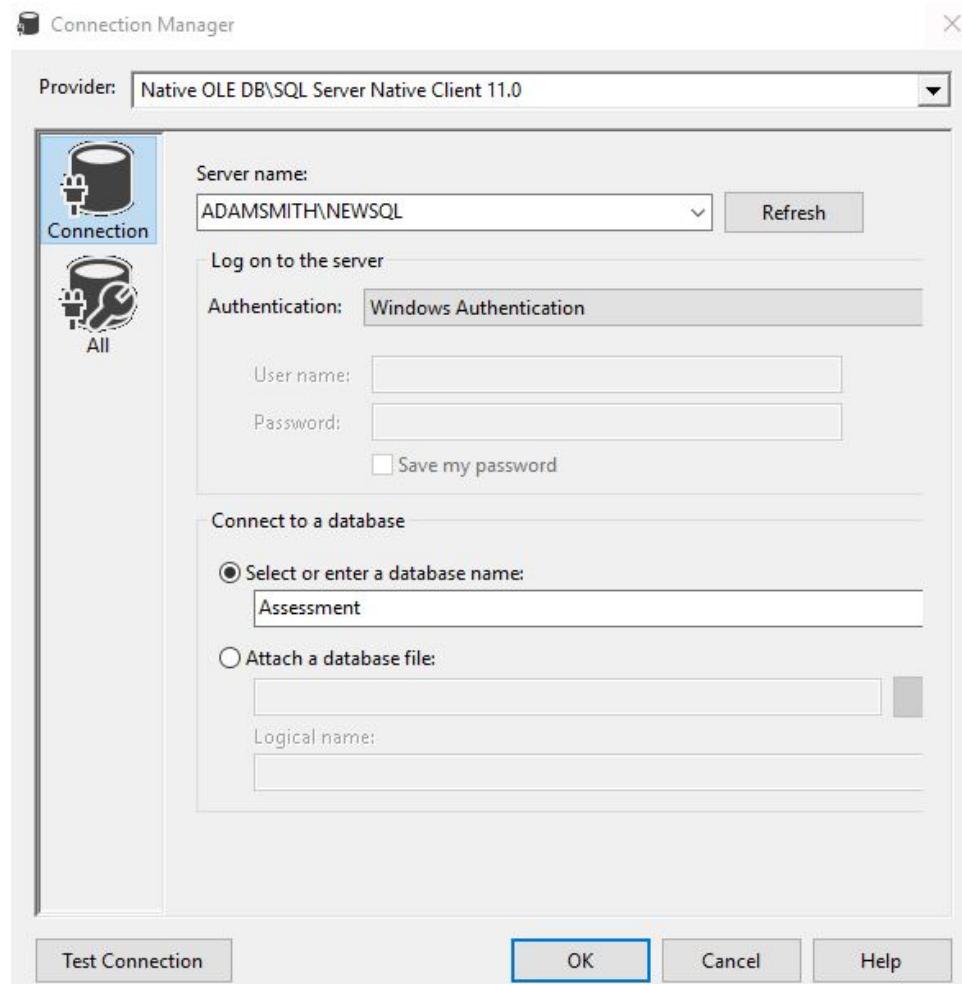
5.1.10 Configuration Manager

A new window will pop up, click the “New” tab.



5.1.11 Enter Server Credentials

Enter server and database name. Since I'm using Windows authentication I do not need to enter username and passwords. However, if you are using SQL Server authentication you will need to apply them here.



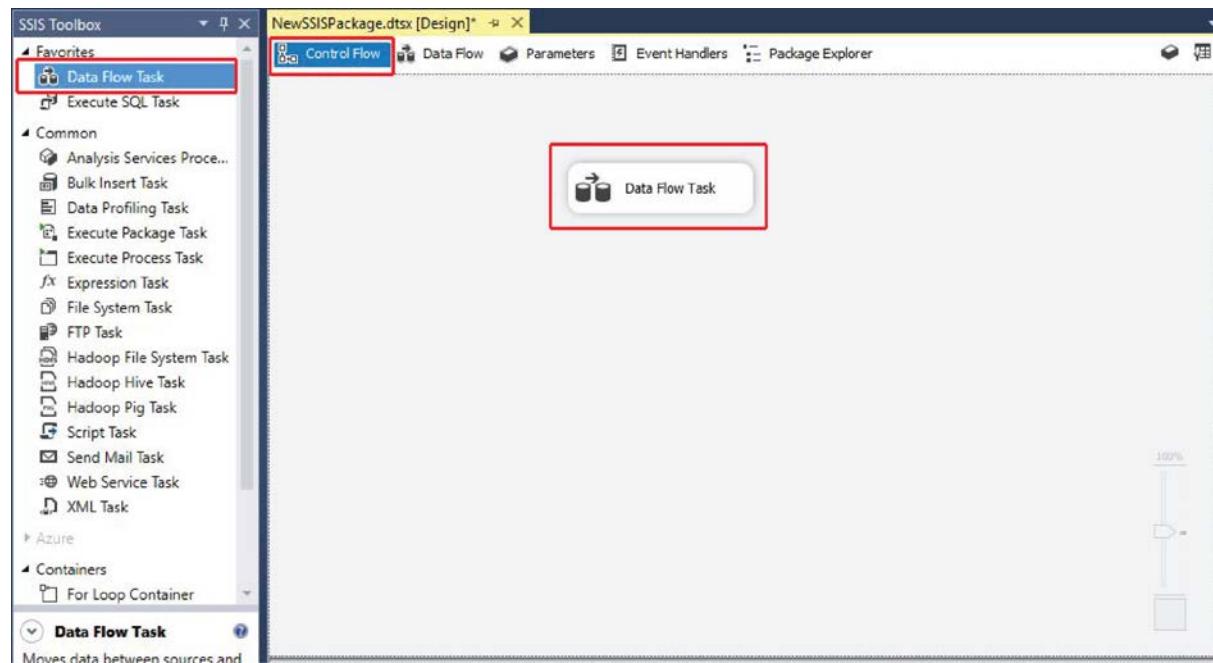
5.1.12 Connection Manager Confirmation

Once clicked okay the new connection should appear in the Connections Manager, at the bottom of the screen.



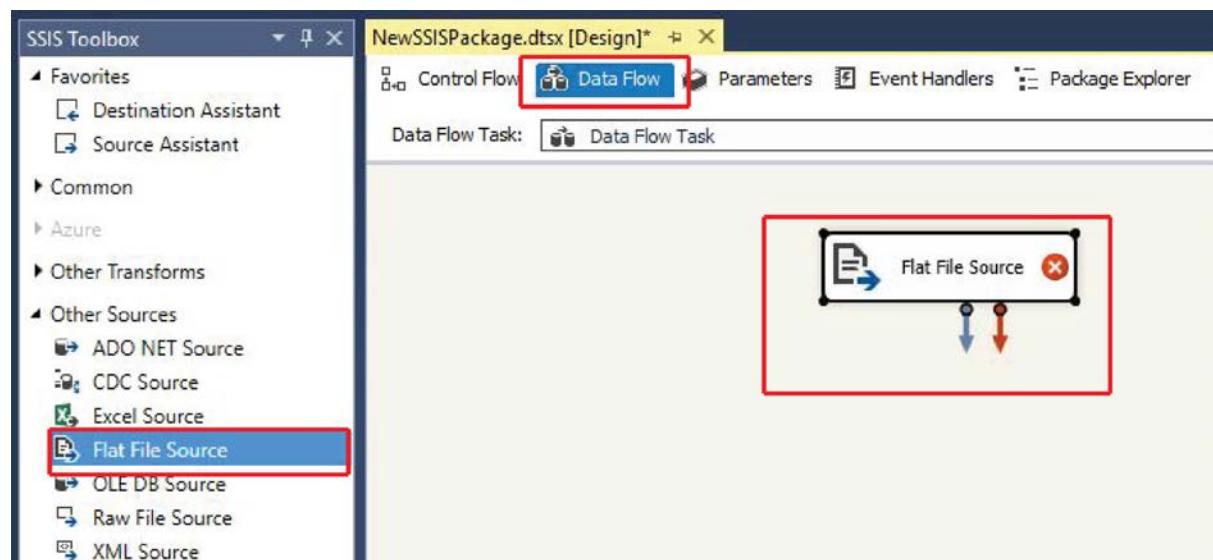
5.1.13 Adding a Data Flow Task

First thing is to make sure the “Control Flow” tab is highlighted. Then, from the SSIS Toolbox menu, drag the “Data Flow Task” into the design section.



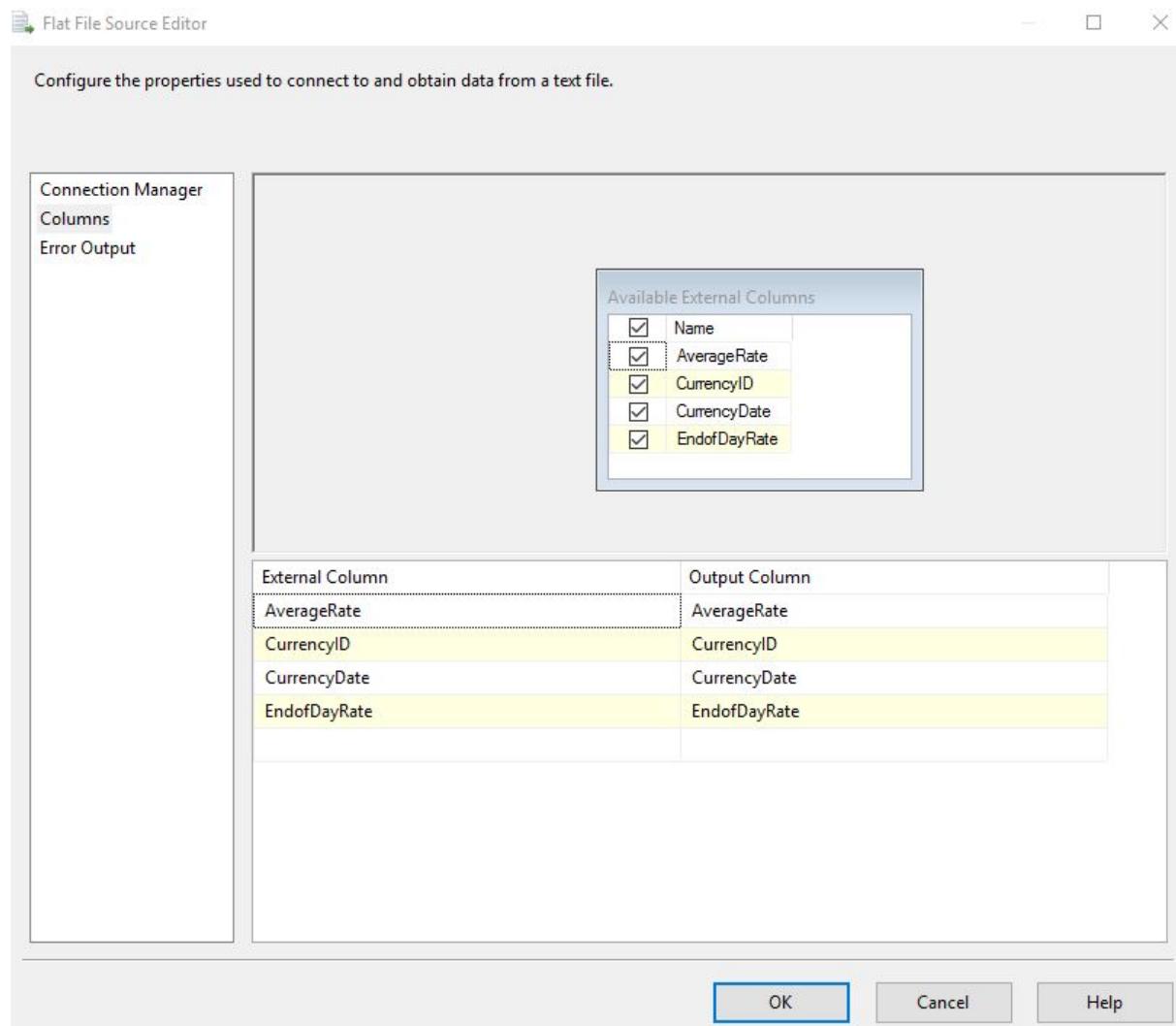
5.1.14 Adding a Flat File Source

First thing is to make sure the “Data Flow” tab is highlighted. Then, from the SSIS Toolbox menu, drag the “Flt File Source” into the design section.



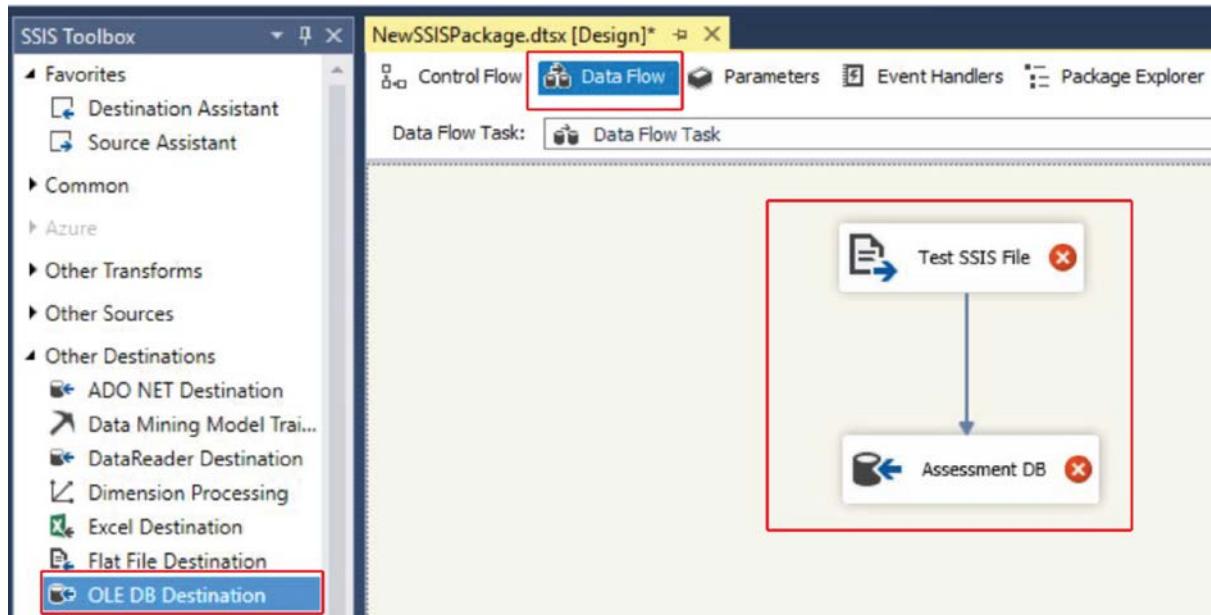
5.1.15 Flat File Source Editor

Double click your Flat File Source and make sure all of the columns you are want to be imported are checked, in this case it's all of them.



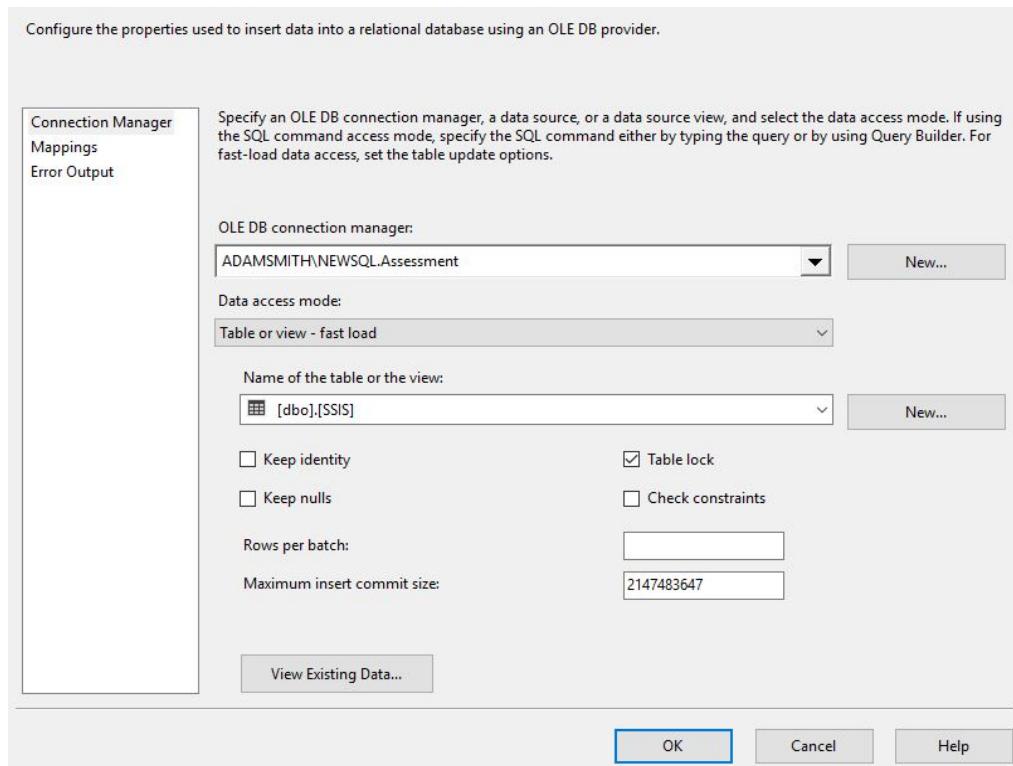
5.1.16 Adding a OLE DB Destination

Add an OLE DB Destination to the same “Data flow” screen as before. And connect the two by dragging the arrow down as shown. Rename the files to suit the project. In this example I have need the destination, “Assessment” since the Database I’m using for this SSIS tutorial is named that.



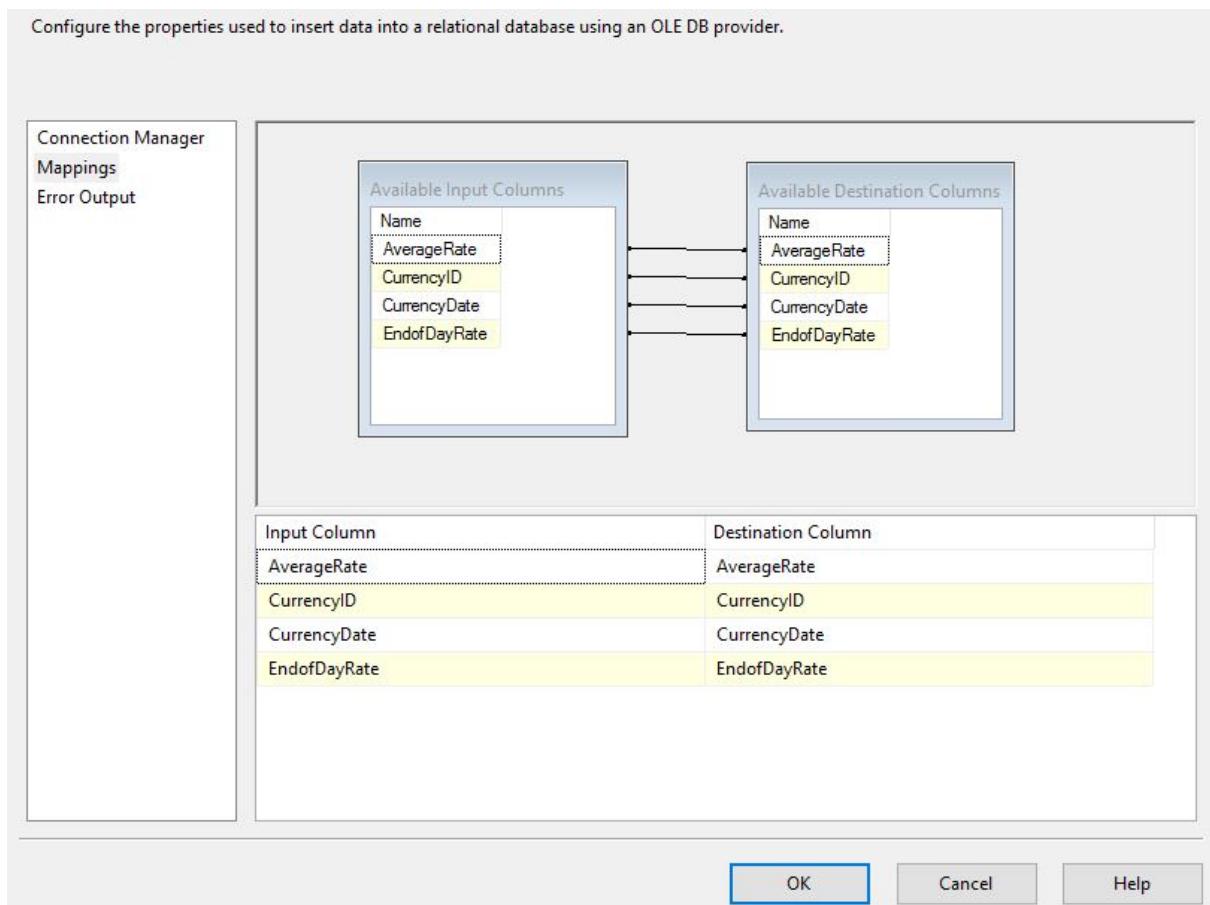
5.1.17 OLE DB Destination Editor – Connection Manager

Double click on your OLE DB Destination and add the relevant data where you want to data to go. As the Assessment database has already been configured, simply add the table, in this case it's the SSIS table.



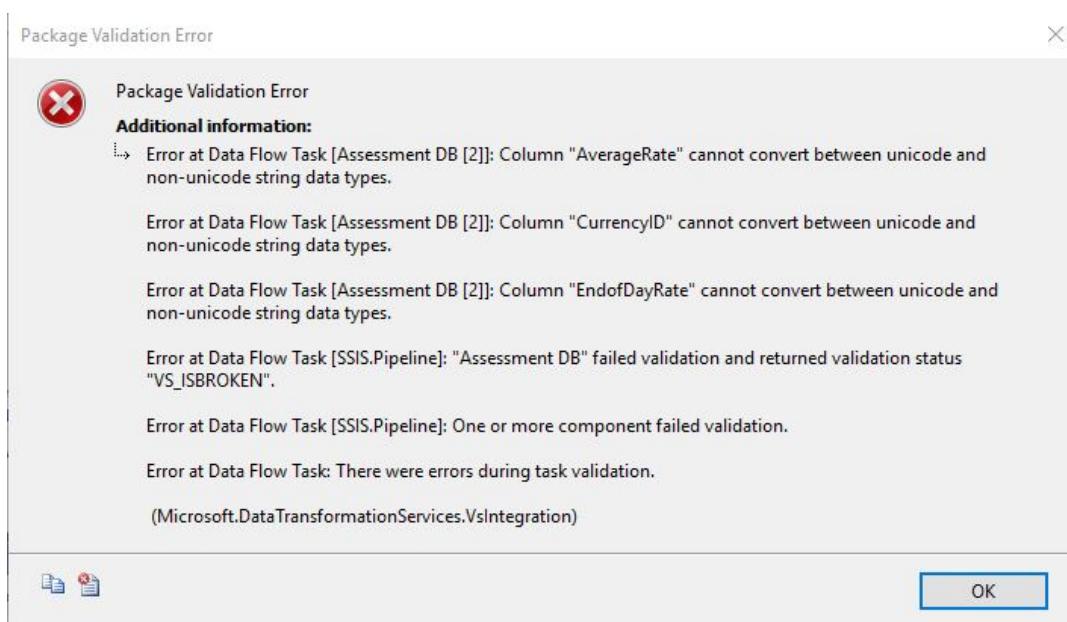
5.1.18 OLE DB Destination Editor – Mappings

Double click your OLE DB Destination and navigate to the mappings section. Make sure that both the .txt input file and the DB destination columns are mapped correctly. In my example they share the same names so mapping them was relatively simple.



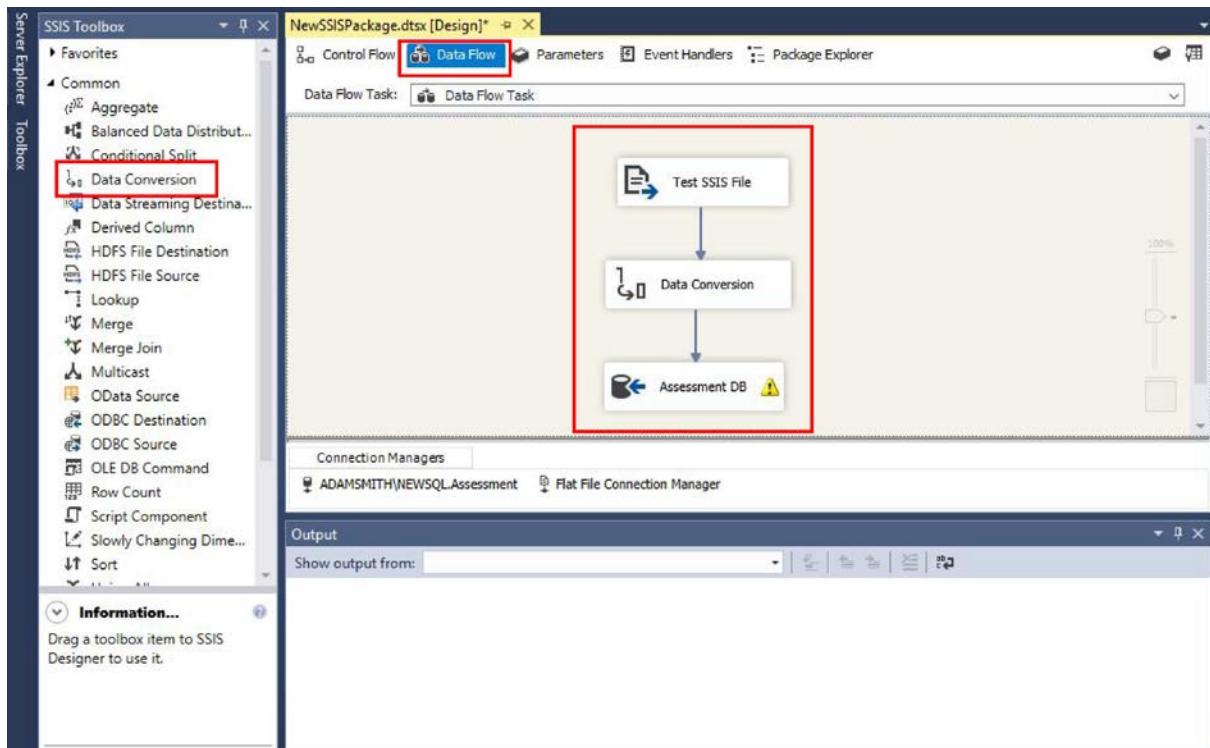
5.1.19 Package Validation Error

At this stage if you run the program you may get a validation error, as follows:



5.1.20 Data Conversion

After much research I found one online source (Robidoux, 2015) that walks through this exact problem. This problem occurs when trying to Unicode and non-Unicode string data types. To combat this problem we need to convert the data. Within the SSIS Toolbox, in the common templates; drag a “Data Conversion” template into the Data flow design screen, connect it up to the OLE DB Destination and Flat File as follows.



5.1.21 Formatting Data Types

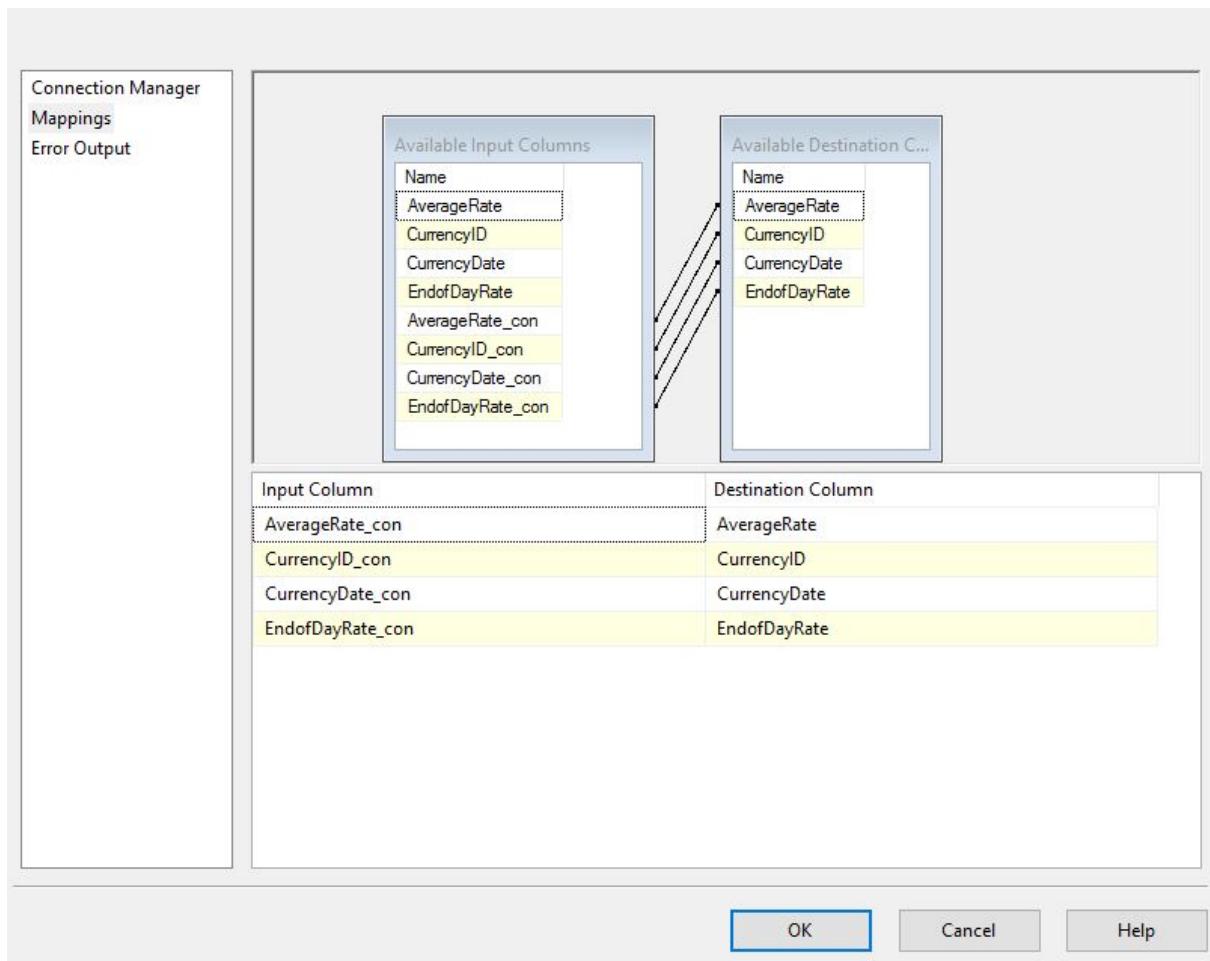
Double click the Data Conversion and you will get the editing screen. This is where the conversion happens. I have recreated the input columns and have kept the same names but added additional text, this is so I know which column is which. I also changed the Datatypes as can be seen below.

Configure the properties used to convert the data type of an input column to a different data type. Depending on the data type to which the column is converted, set the length, precision, scale, and code page of the column.

Input Column	Output Alias	Data Type	Length	Precision	Scale	Code Page
AverageRate	AverageRate_con	float [DT_R4]				
CurrencyID	CurrencyID_con	Unicode string [DT_WSTR]	255			
CurrencyDate	CurrencyDate_con	date [DT_DATE]				
EndOfDayRate	EndOfDayRate_con	float [DT_R4]				

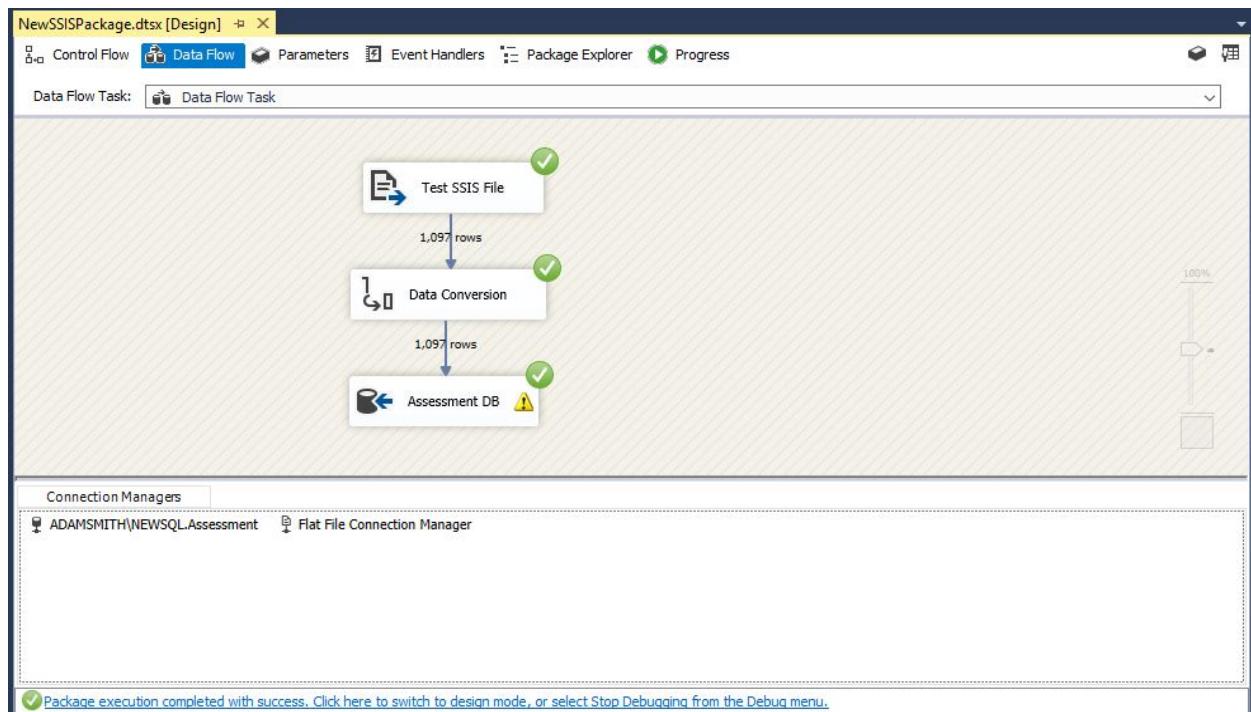
5.1.22 Re-Mapping Converted Data

Double click your destination template and go back into the Mappings tab. Here you need to map your newly converted data types “Aliases” to the destination columns.



5.1.23 Execute Package

Now your package should work perfectly. To execute your package either press F5 or the start button at the top. You should then get a message telling you your package was run successfully.



5.1.24 Database population

Once the program has ran successfully you should then be able to open your database and see all of the data that has been imported.

AverageRate	CurrencyID	CurrencyDate	EndOfDayRate
1.6173378	GBP	2005-01-01 00:00:00.000	1.6173378
1.621797	GBP	2005-02-01 00:00:00.000	1.6228497
1.6244315	GBP	2005-03-01 00:00:00.000	1.6225864
1.6225864	GBP	2005-04-01 00:00:00.000	1.6236402
1.6168149	GBP	2005-05-01 00:00:00.000	1.6165535
1.6183848	GBP	2005-06-01 00:00:00.000	1.6199579
1.6189089	GBP	2005-07-01 00:00:00.000	1.6183848
1.6204829	GBP	2005-08-01 00:00:00.000	1.6225864
1.6236402	GBP	2005-09-01 00:00:00.000	1.6225864
1.615248	GBP	2005-10-01 00:00:00.000	1.6157699
1.6123831	GBP	2005-11-01 00:00:00.000	1.6103059
1.6108247	GBP	2005-12-01 00:00:00.000	1.6129032
1.6048788	GBP	2005-01-13 00:00:00.000	1.6046213
1.6053941	GBP	2005-01-14 00:00:00.000	1.6059097
1.6030779	GBP	2005-01-15 00:00:00.000	1.601794
1.5984654	GBP	2005-01-16 00:00:00.000	1.6007683
1.5994881	GBP	2005-01-17 00:00:00.000	1.5984654
1.5989766	GBP	2005-01-18 00:00:00.000	1.6005121
1.6005121	GBP	2005-01-19 00:00:00.000	1.5999766
1.6005121	GBP	2005-01-20 00:00:00.000	1.601281
1.601281	GBP	2005-01-21 00:00:00.000	1.5997441
1.6100467	GBP	2005-01-22 00:00:00.000	1.6126431

5.2 SQL Server Reporting Services (SSRS)

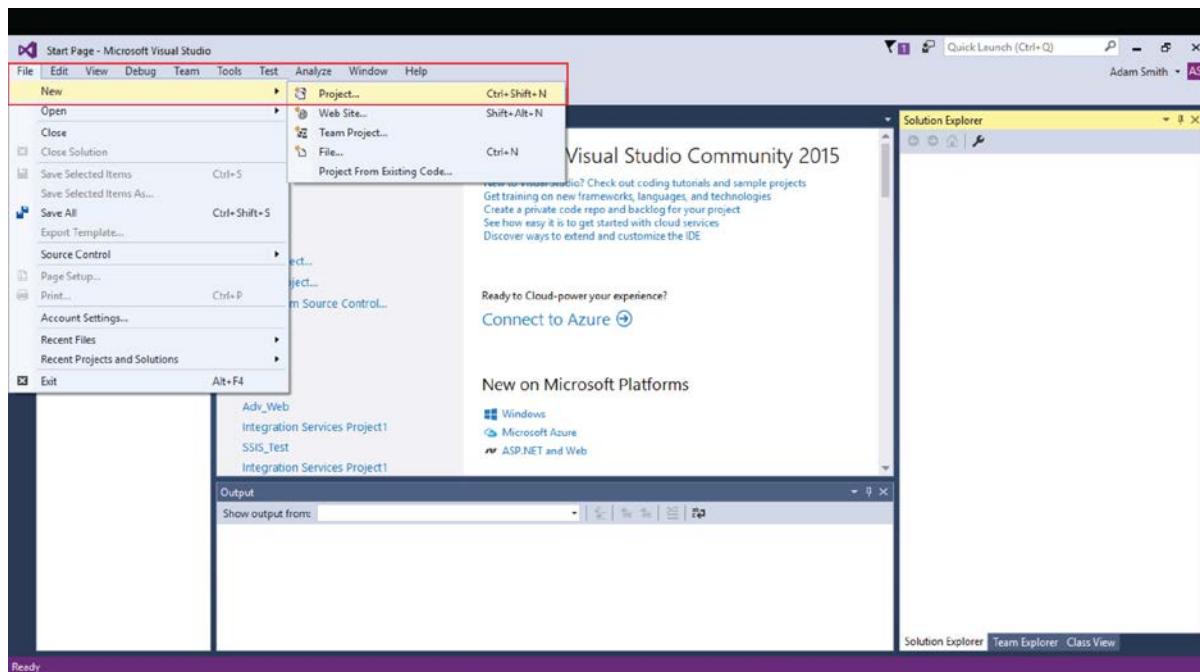
SSRS is a report server and report development platform. Reports can be built, developed and created within a tool called report creator, in visual studio, in SQL Server Data Tools (SSDT) and by hand-written XML code. Reports are created and stored within an SQL Server Database Engine and embedded .NET applications which could then be served out to customers, employees and anyone needing these reports. They can be delivered by e-mail, mobile devices, browsers and many more which can be put on a reporting schedule, say every morning at 7.30am.

A walk through of the SQL Server 2014 Reporting Services Configuration Manager can be found in the appendix, these are merely informational screenshots of each of the pages within the configuration page.

5.2.1 Creating the Data Source

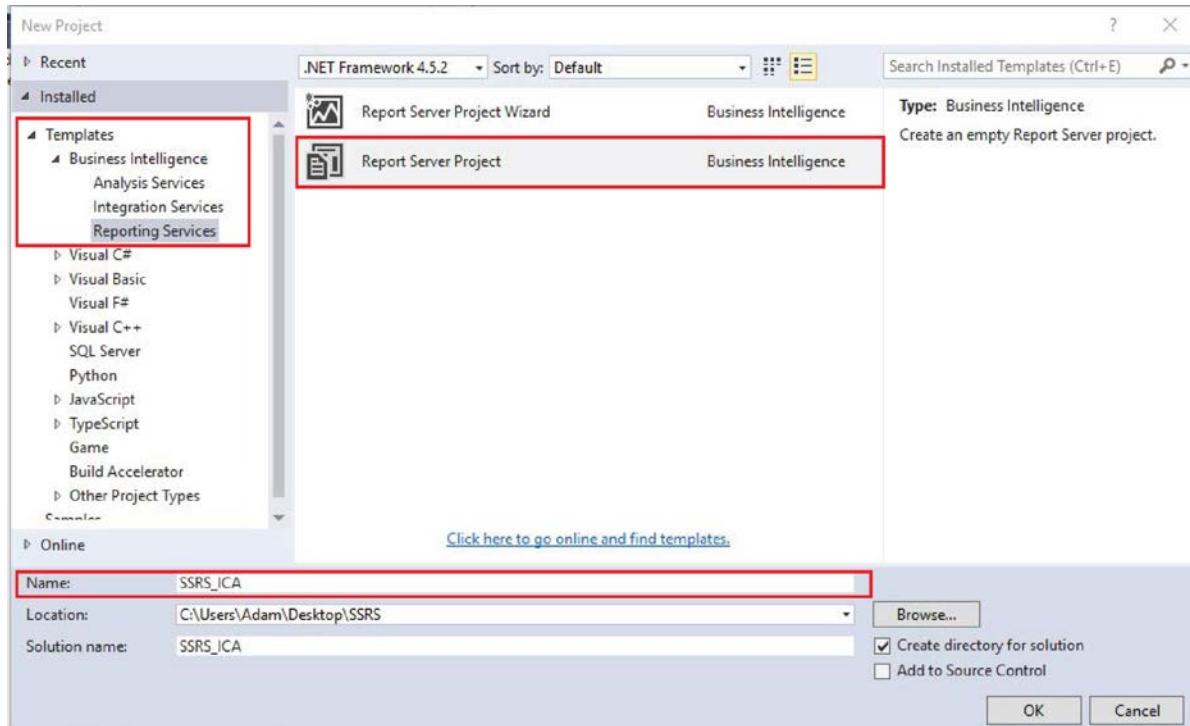
5.2.1.1 New Project

Open Visual Studio and select new project.



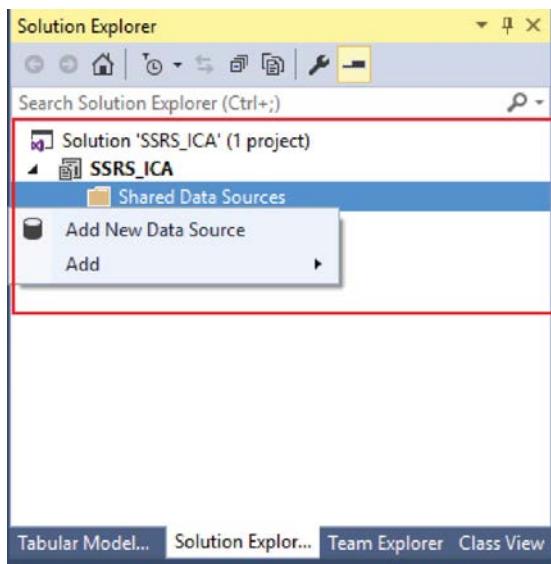
5.2.1.2 Project Type

Now is to select the project type. Within the Templates section, click on the Business Intelligence tab and select “Reporting Services”. Select “Reporting Services Project” and name your project accordingly, in this instance I’ve named mine “SSRS_ICA”.



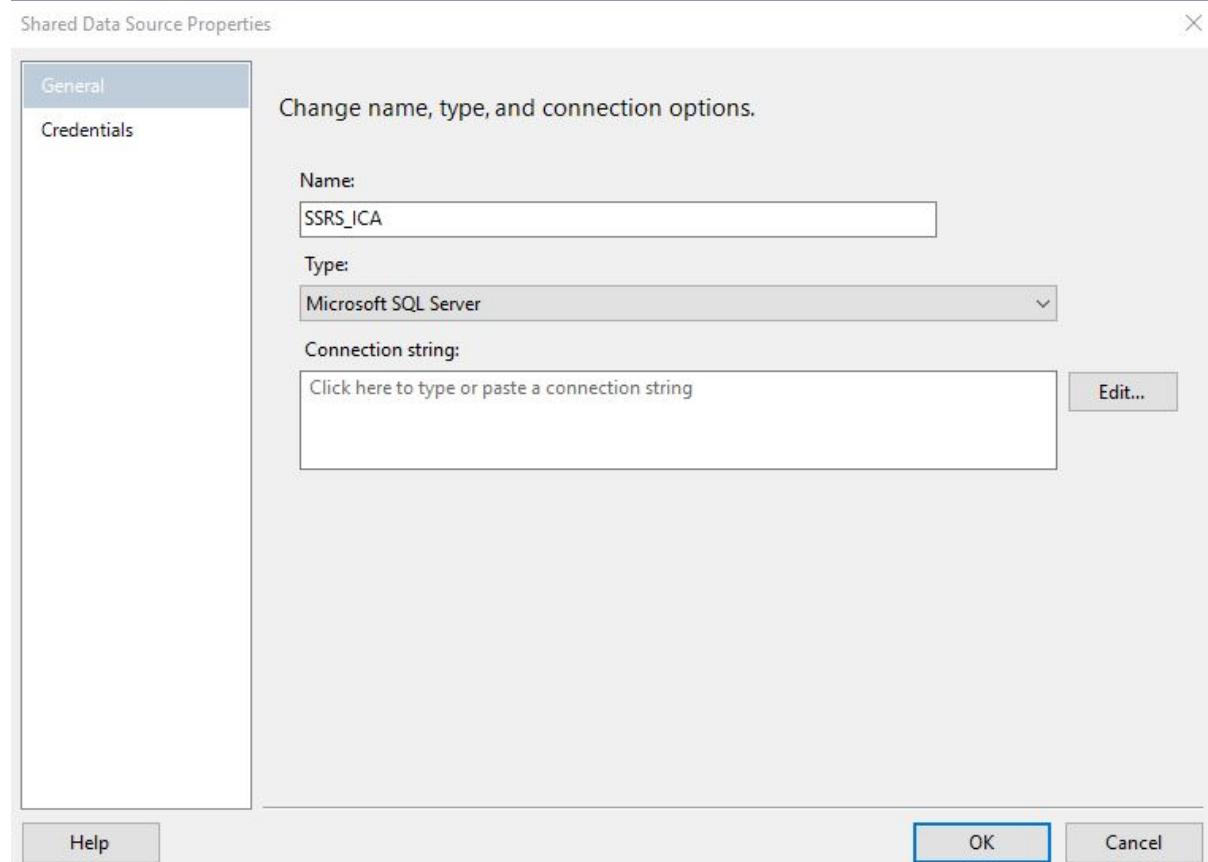
5.2.1.3 New Data Source

Within the Solution Explorer, right click “Shared Data Sources” and click “Add New Data Source”.



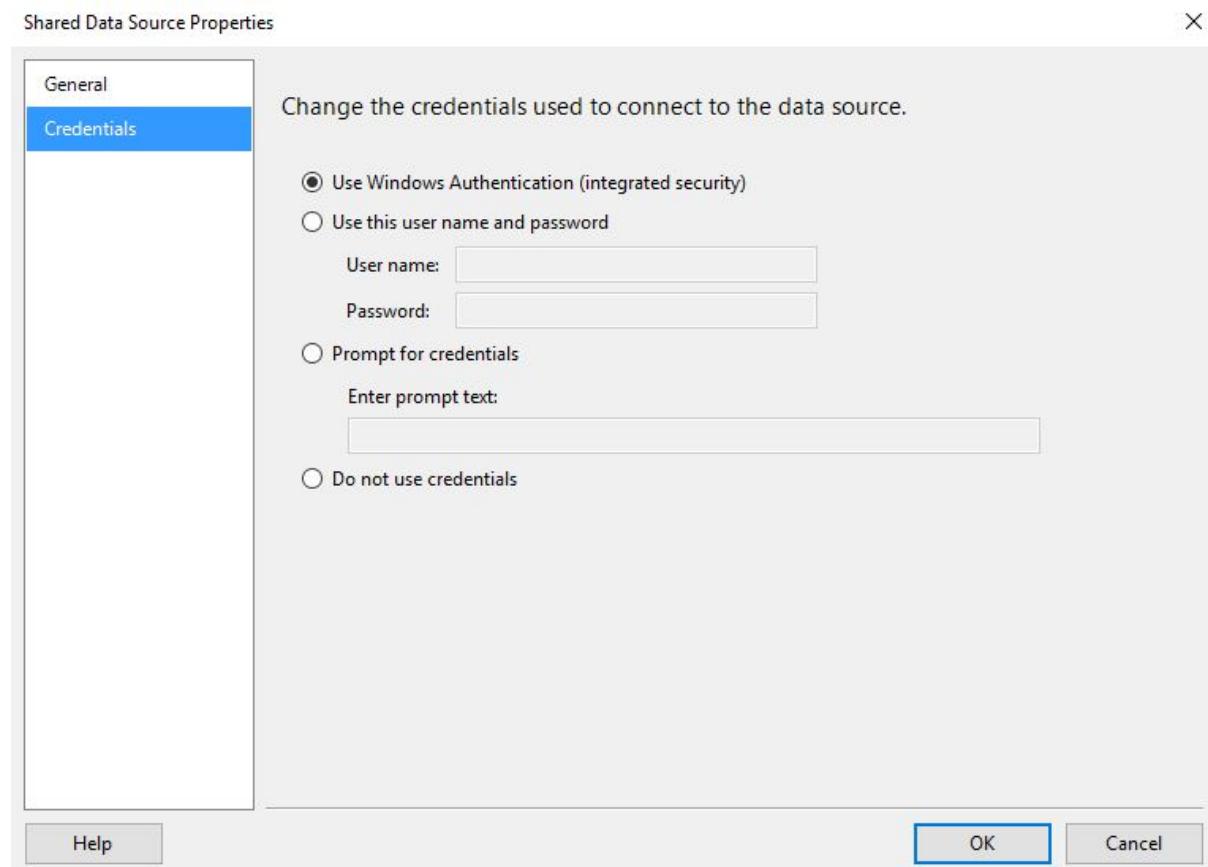
5.2.1.4 New Data Source

Within the Shared Data Source Properties page enter the name and select the type of database you will be connecting to, in this case its Microsoft SQL Server.



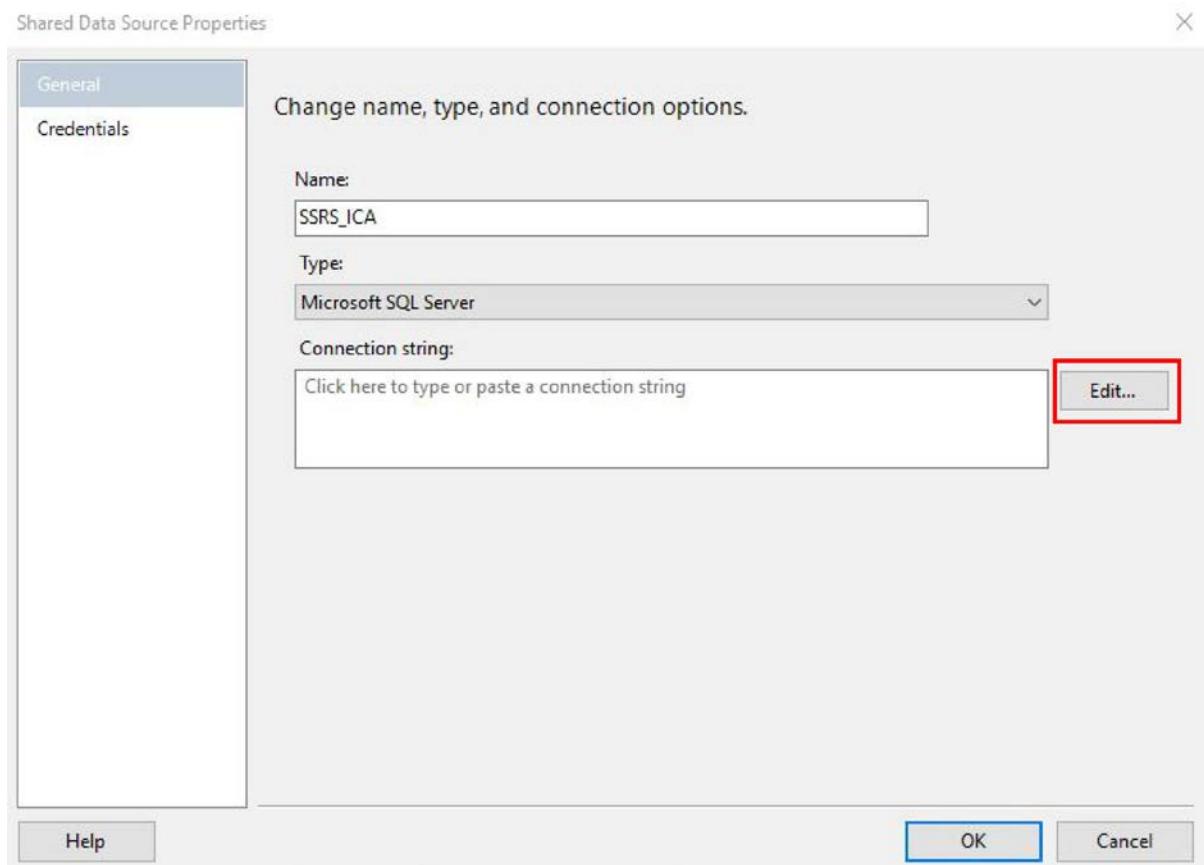
5.2.1.5 Authentication

Within the Credentials screen you will want to select the way you wish to connect to the data source, in this case its Windows Authentication.



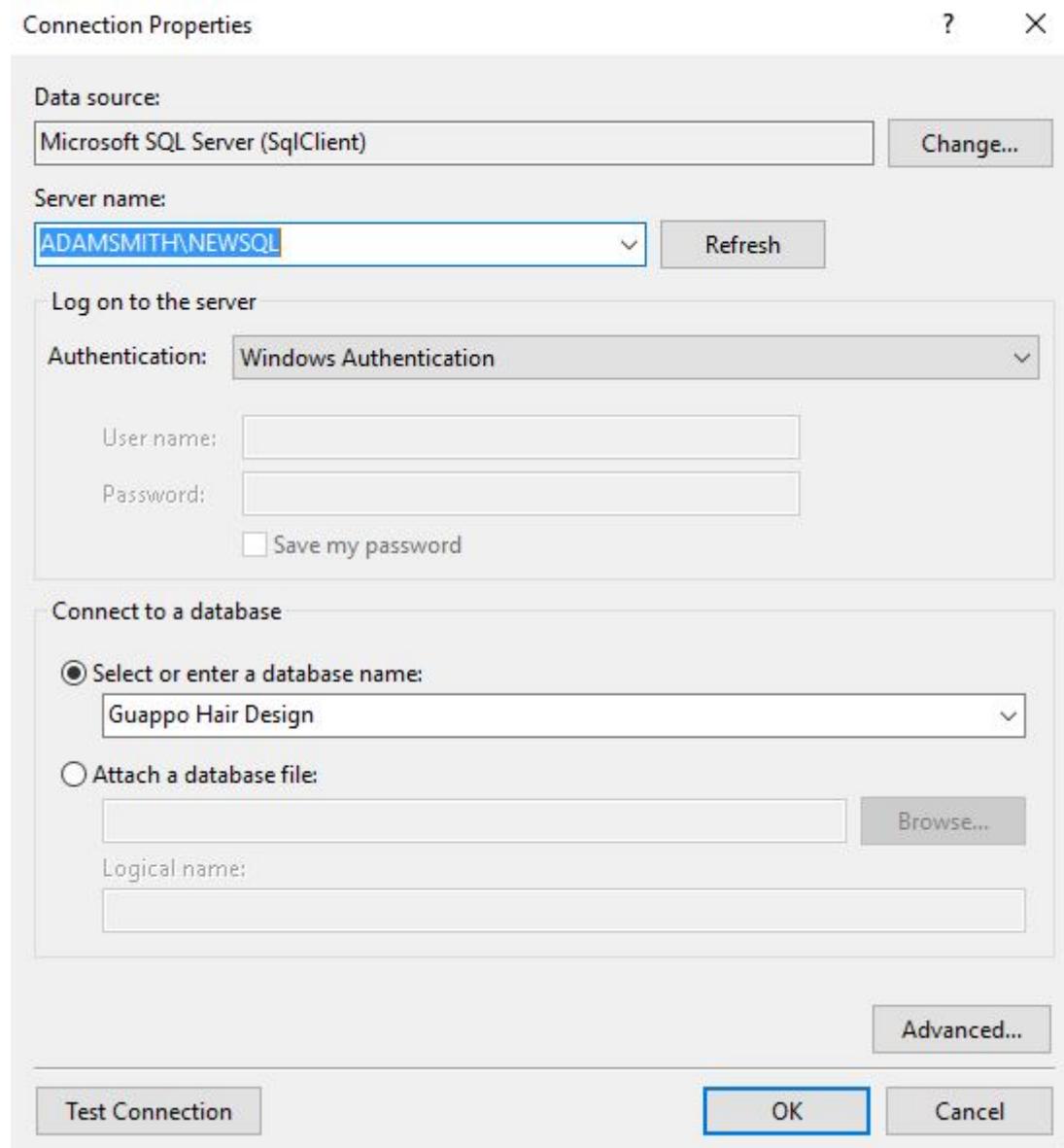
5.2.1.6 Edit

Go back to the 'General' tab and click on the edit button.



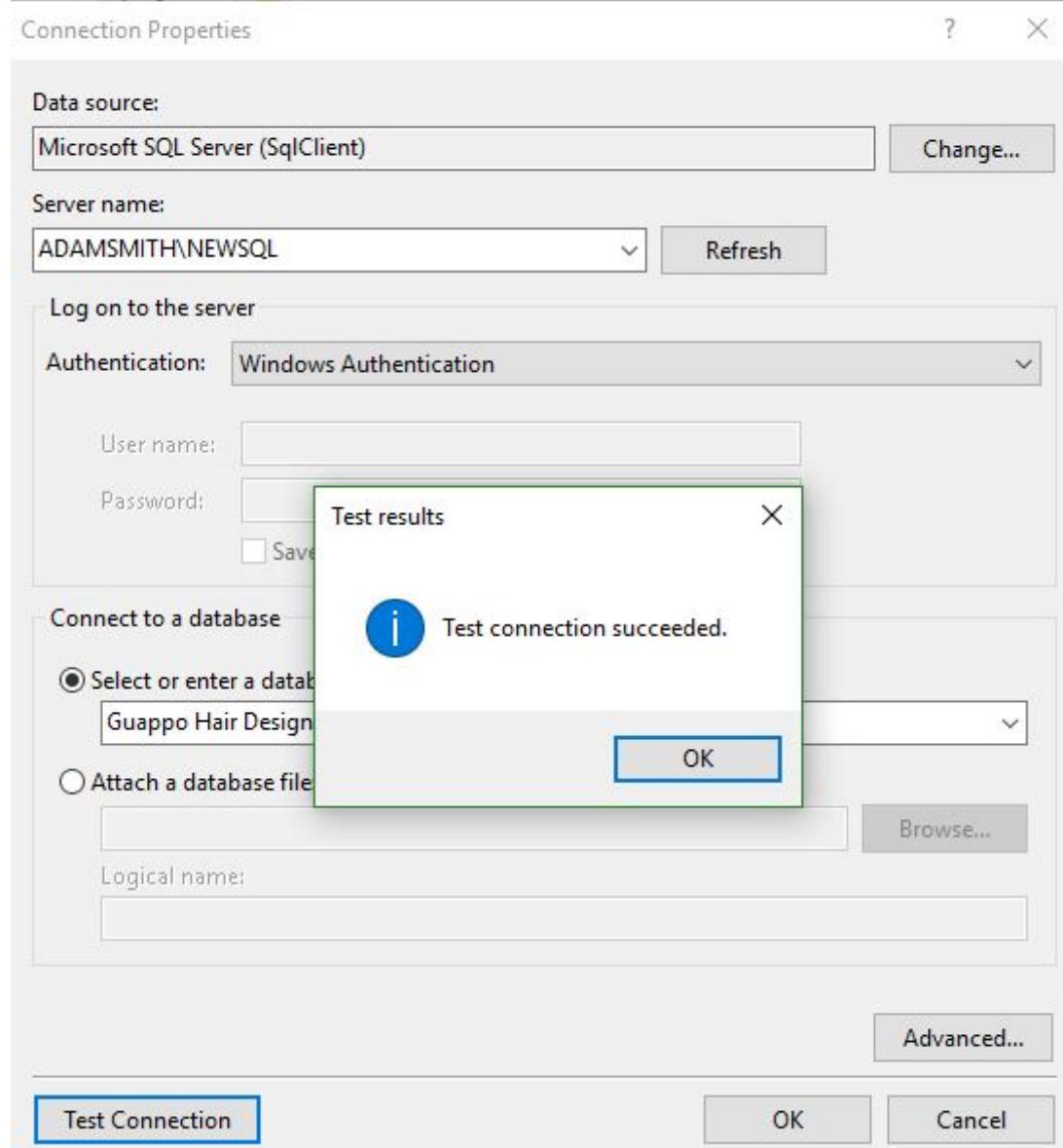
5.2.1.7 Connection Properties

This screen defines the connection properties, you must enter the source, which is SQL Server, Server name, which on my personal computer is set to NEWSQL and Windows Authentication. After this you must select the database you want to connect too.



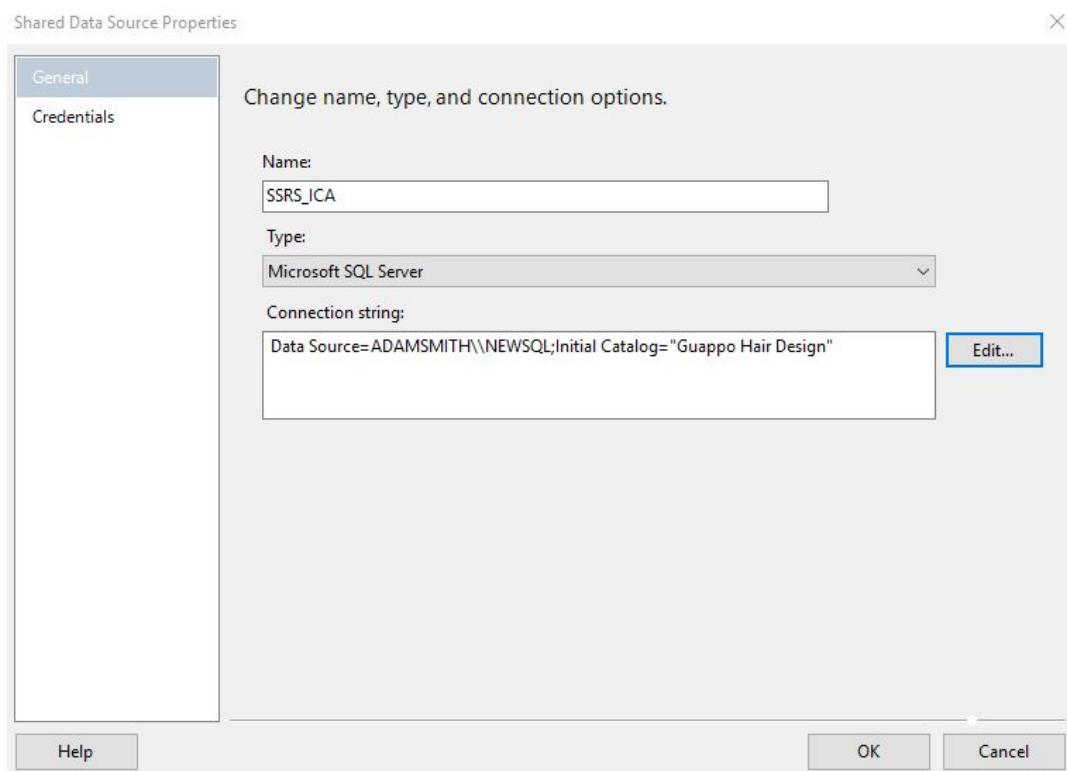
5.2.1.8 Test connection

Once you have finalised your connection properties it is a good time to test the connection to your database. Click 'Test connection' and you will get a successful or unsuccessful connection message.



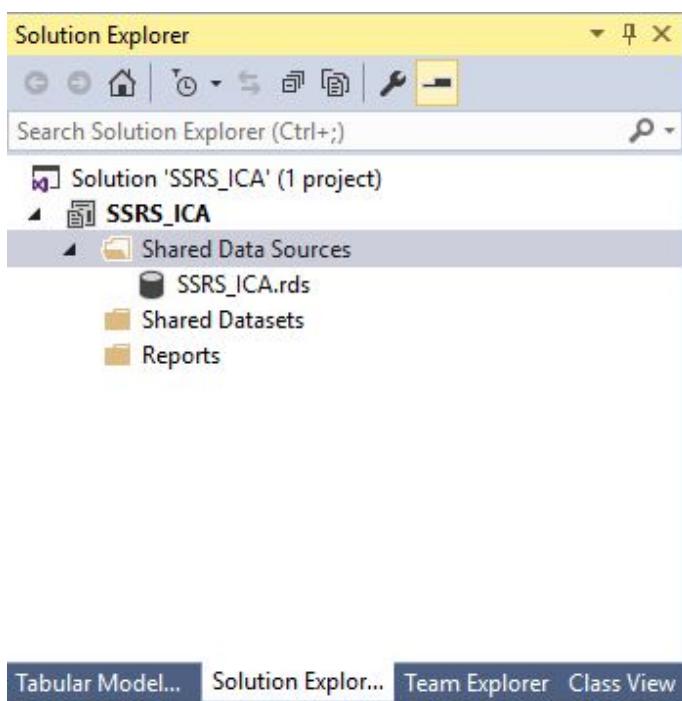
5.2.1.9 Connection String

If you now go back in the General tab, you should see a Connection String to the Data Source and Database. To alter this you must perform the previous steps and connect to a different database.



5.2.1.10 Finalise the Data Source

To finish creating the Data source, simply click ok. You can then see the created data source in the Solution Explorer.

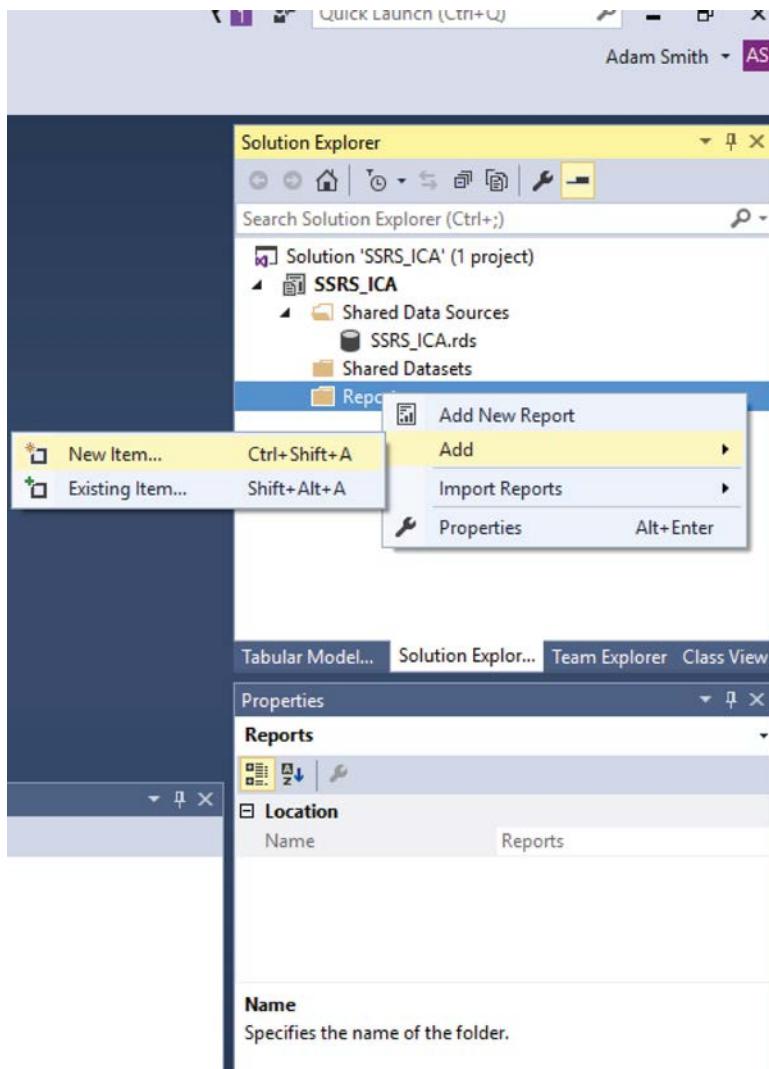


5.2.2 Creating an SSRS Report

This will walk through both the configuration and creation of an SSRS report.

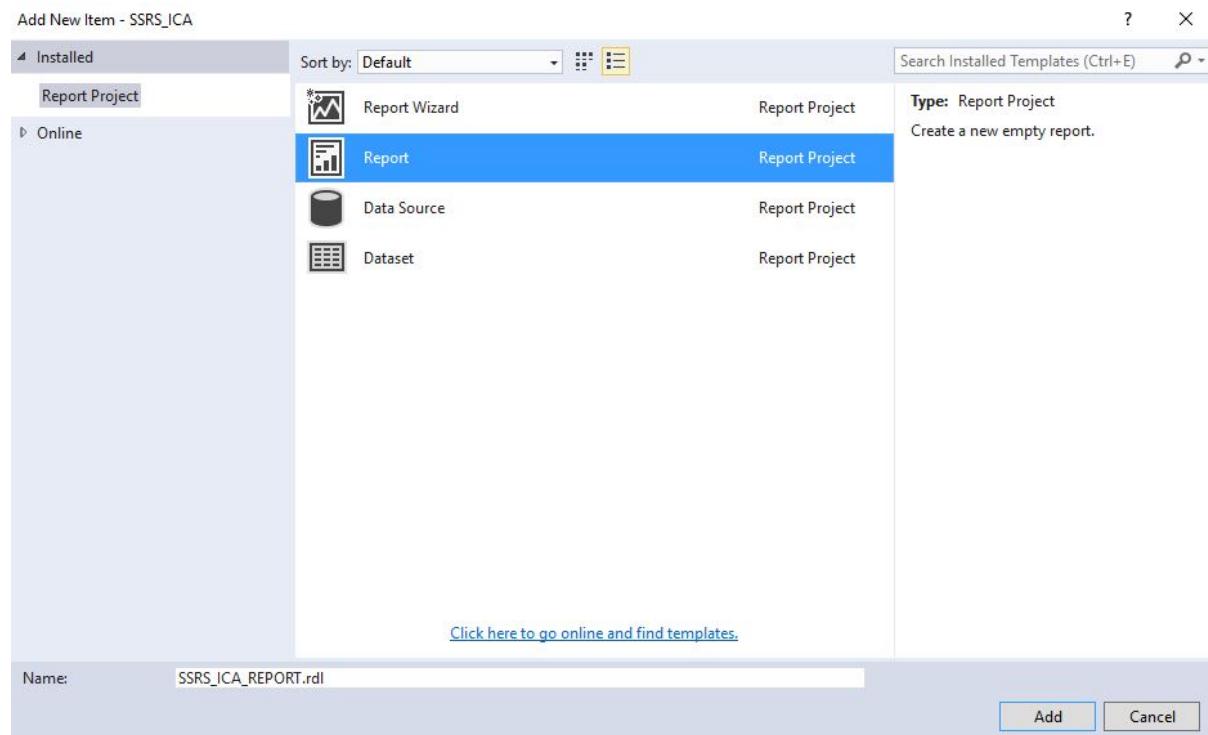
5.2.2.1 New Item

Within the Solution Explorer right click Reports, and add a new item.



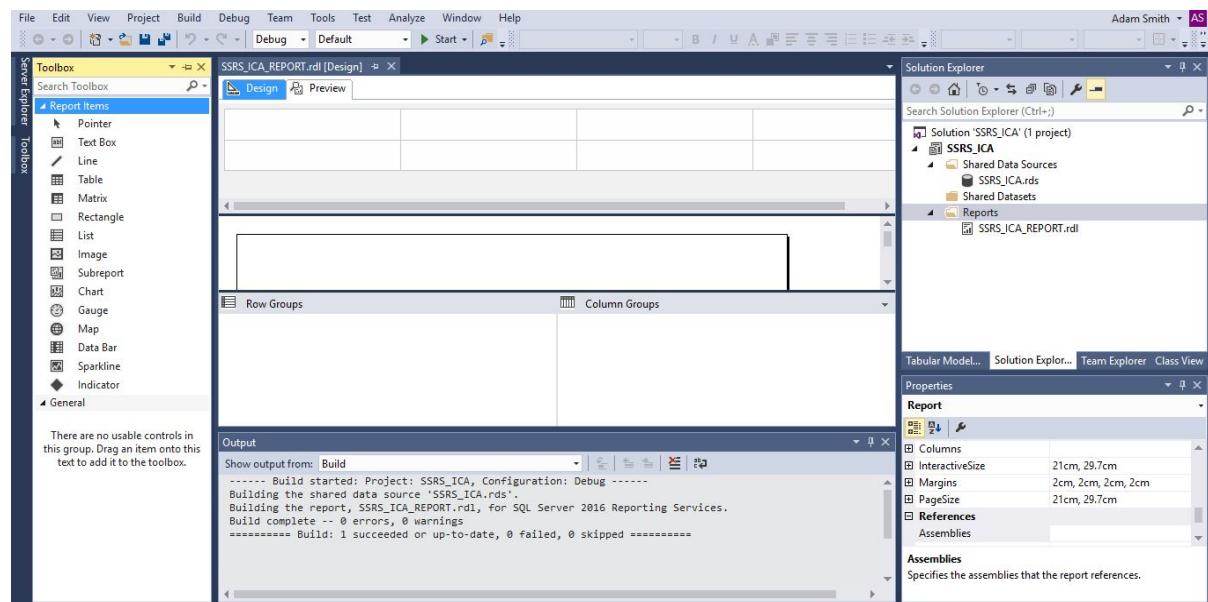
5.2.2.2 Report Project

Select the Report option and enter a relevant name.



5.2.2.3 Report Project

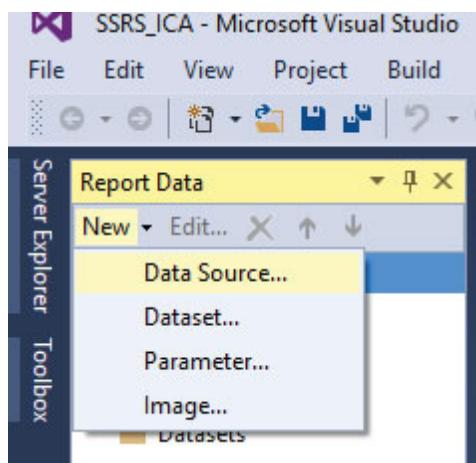
You should then have an empty report.



5.2.3 Configuring the Connection Information

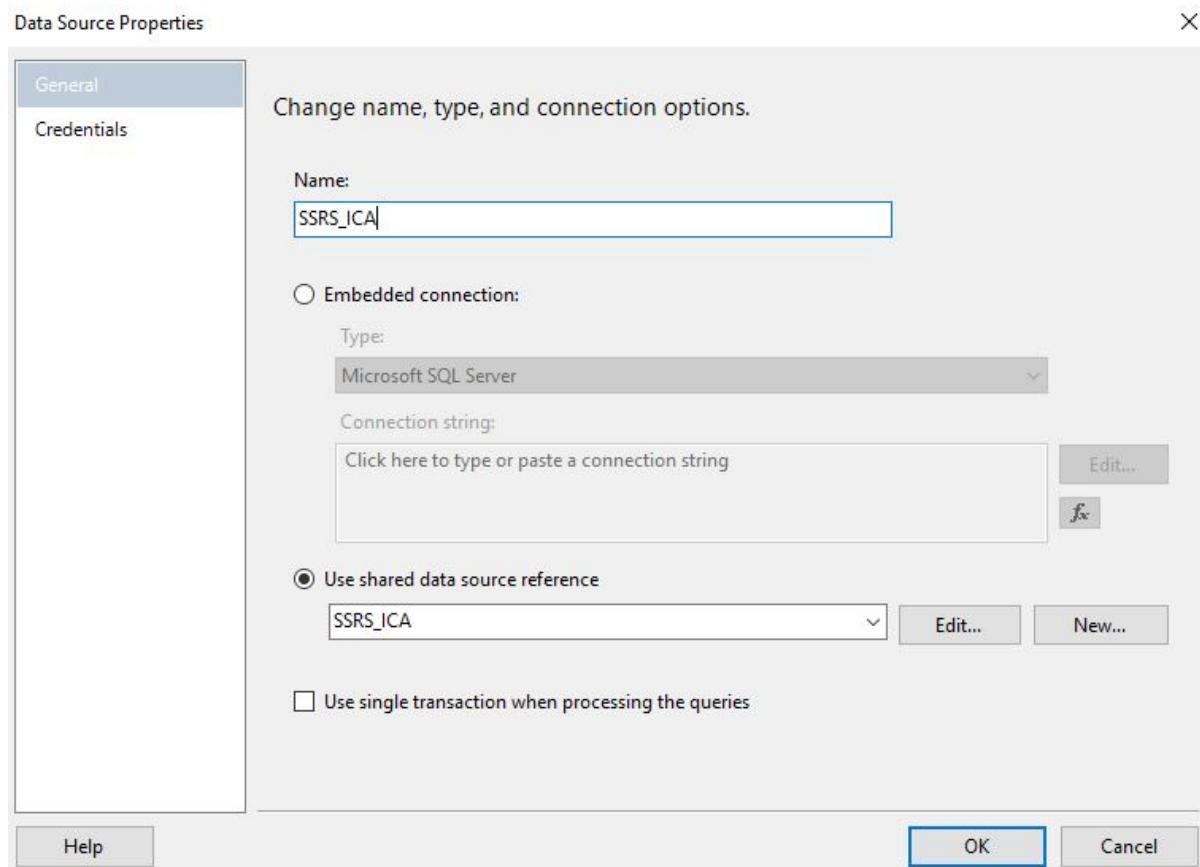
5.2.3.1 Connecting to Shared Data Source

Firstly within the Reporting Data area, select new data source.



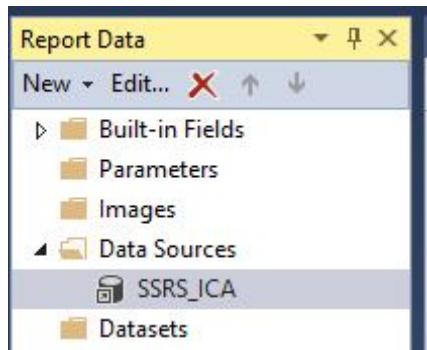
5.2.3.2 Connecting to Shared Data Source

As you will have already created your Data Source previous to this step, you can simple check the 'Use shared data source reference' and select the necessary one, in this case there was only one created.



5.2.3.3 Data Source

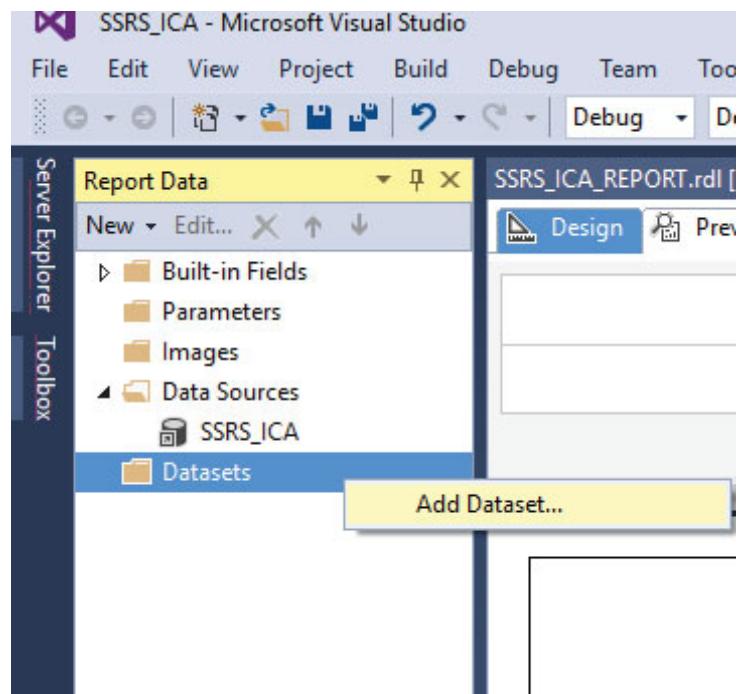
Within the Report Data area, you will see the Data source.



5.2.4 Defining the Dataset

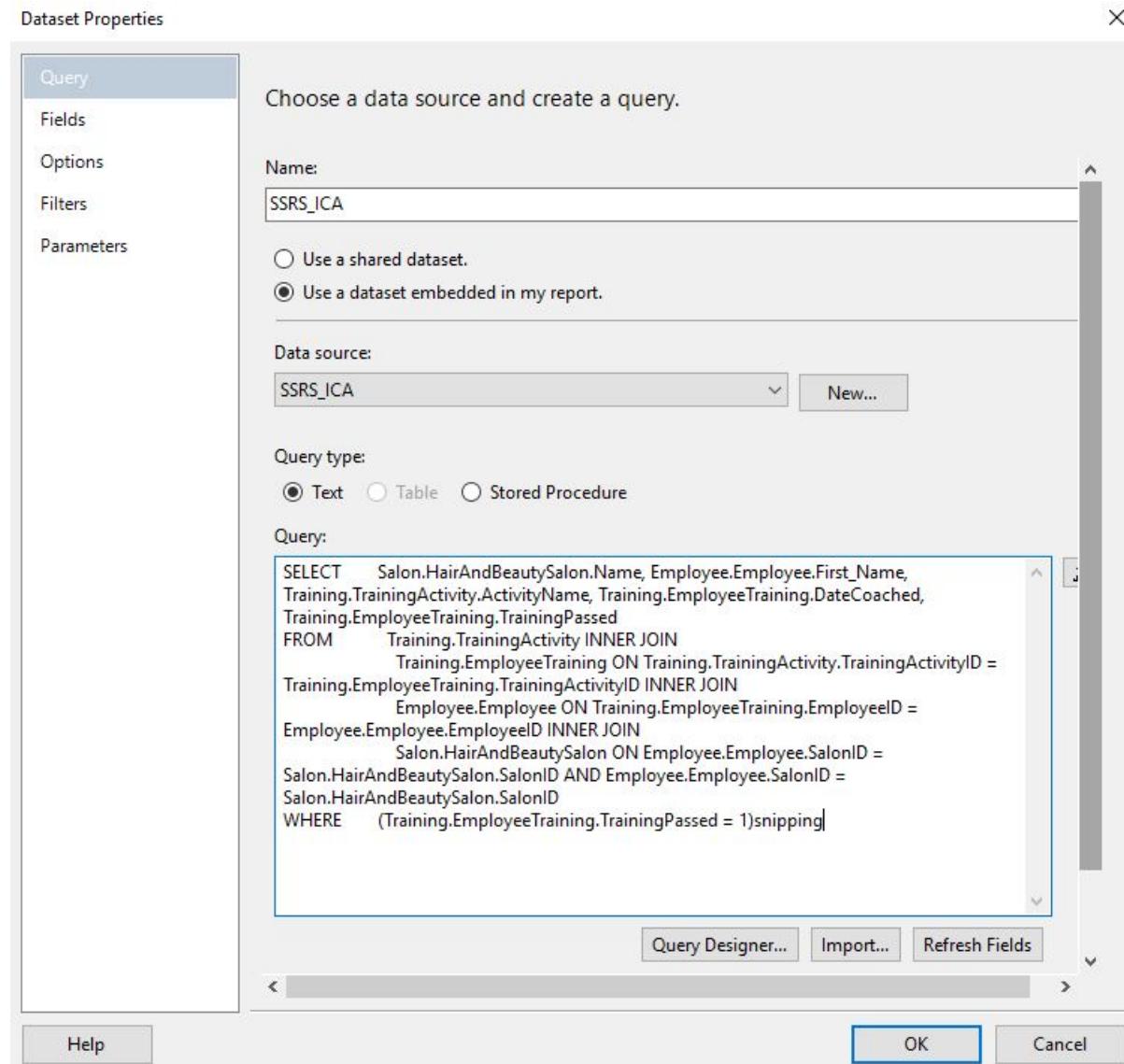
5.2.4.1 Defining a Dataset

Within the Report Data area, right click Datasets and add dataset.



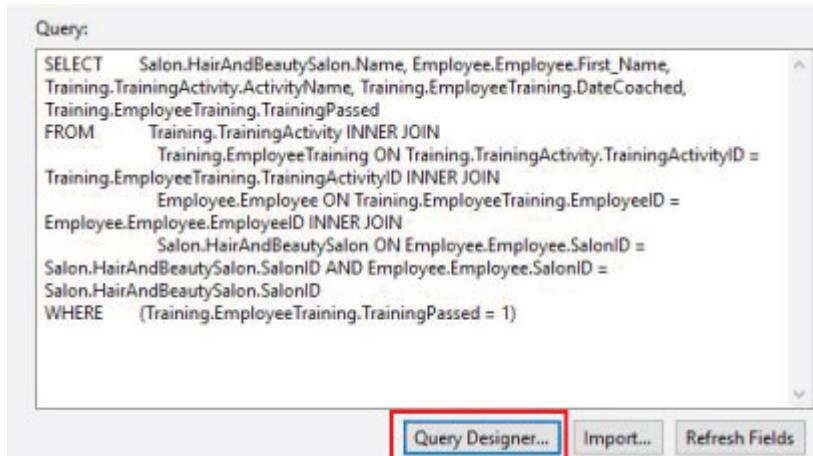
5.2.4.2 Dataset Properties

Within the Dataset properties name your Dataset accordingly. Make sure the 'Use a dataset embedded in my report' checkbox is checked and select your Data source. Within the query type window I have taken an already created view from my project, the Training_Passed view, I have passed it into the Query window.



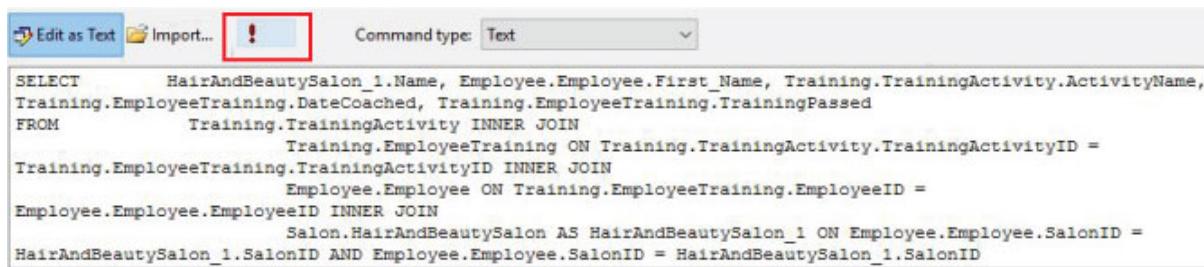
5.2.4.3 Query Designer

Whilst in that window click the Query Designer button.



5.2.4.4 Edit as text

By default the designer will be set to 'edit as text'. Click the run '!' icon you will see exactly what data your query will be importing.



5.2.4.5 Query Result

The result, in this example, is all employees from the SalonID = 1 where employees have passed their training.

<pre> SELECT HairAndBeautySalon_1.Name, Employee.Employee.First_Name, Training.TrainingActivity.ActivityName, Training.EmployeeTraining.DateCoached, Training.EmployeeTraining.TrainingPassed FROM Training.TrainingActivity INNER JOIN Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID = Training.EmployeeTraining.TrainingActivityID INNER JOIN Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID INNER JOIN Salon.HairAndBeautySalon AS HairAndBeautySalon_1 ON Employee.Employee.SalonID = HairAndBeautySalon_1.SalonID AND Employee.Employee.SalonID = HairAndBeautySalon_1.SalonID WHERE (Training.EmployeeTraining.TrainingPassed = 1) </pre>																				
<table border="1"> <thead> <tr> <th>Name</th><th>First_Name</th><th>ActivityName</th><th>DateCoached</th><th>TrainingPassed</th></tr> </thead> <tbody> <tr> <td>Guappo Hair Design</td><td>Karl</td><td>MensCut</td><td>05/03/2017 00:00:00</td><td>True</td></tr> <tr> <td>Guappo Hair Design</td><td>Brogham</td><td>BeardPrecision</td><td>12/12/2016 00:00:00</td><td>True</td></tr> <tr> <td>Guappo Hair Design</td><td>Helen</td><td>Tanning</td><td>12/11/2017 00:00:00</td><td>True</td></tr> </tbody> </table>	Name	First_Name	ActivityName	DateCoached	TrainingPassed	Guappo Hair Design	Karl	MensCut	05/03/2017 00:00:00	True	Guappo Hair Design	Brogham	BeardPrecision	12/12/2016 00:00:00	True	Guappo Hair Design	Helen	Tanning	12/11/2017 00:00:00	True
Name	First_Name	ActivityName	DateCoached	TrainingPassed																
Guappo Hair Design	Karl	MensCut	05/03/2017 00:00:00	True																
Guappo Hair Design	Brogham	BeardPrecision	12/12/2016 00:00:00	True																
Guappo Hair Design	Helen	Tanning	12/11/2017 00:00:00	True																

5.2.4.6 Edit Table

You can then click the 'Edit as text' button again which will bring the data in the design view. You can then edit your desired data the designer way rather than the code option. Once you are happy click ok.

Column	Alias	Table	Outp...	Sort Type	Sort Order	Filter	Or...	Or...	Or...
Name		HairAndBe...	<input checked="" type="checkbox"/>						
First_Name		Employee ...	<input checked="" type="checkbox"/>						
ActivityName		TrainingAc...	<input checked="" type="checkbox"/>						
DateCoached		Employee...	<input checked="" type="checkbox"/>						
TrainingPassed		Employee...	<input checked="" type="checkbox"/>		= 1				

```

SELECT HairAndBeautySalon_1.Name, Employee.Employee.First_Name, Training.TrainingActivity.ActivityName, Training.EmployeeTraining.DateCoached, Training.EmployeeTraining.TrainingPassed
FROM Training.TrainingActivity INNER JOIN
     Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID = Training.EmployeeTraining.TrainingActivityID INNER JOIN
     Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID INNER JOIN
     Salon.HairAndBeautySalon AS HairAndBeautySalon_1 ON Employee.Employee.SalonID = HairAndBeautySalon_1.SalonID AND Employee.Employee.SalonID = HairAndBeautySalon_1.SalonID
WHERE (Training.EmployeeTraining.TrainingPassed = 1)
  
```

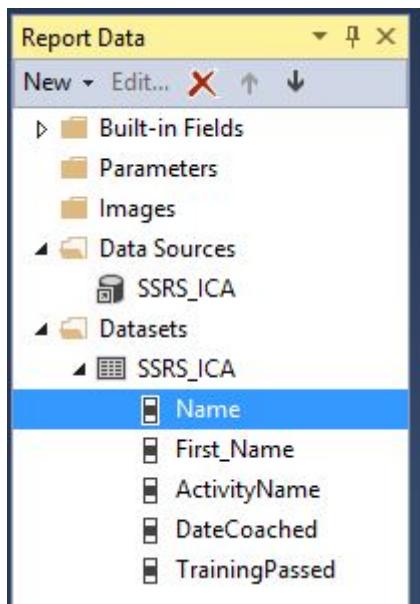
5.2.4.7 Fields

Click the fields tab, this lets you view the fields you will be sending to report.

Field Name	Field Source
Name	Name
First_Name	First_Name
ActivityName	ActivityName
DateCoached	DateCoached
TrainingPassed	TrainingPassed

5.2.4.8 Datasets

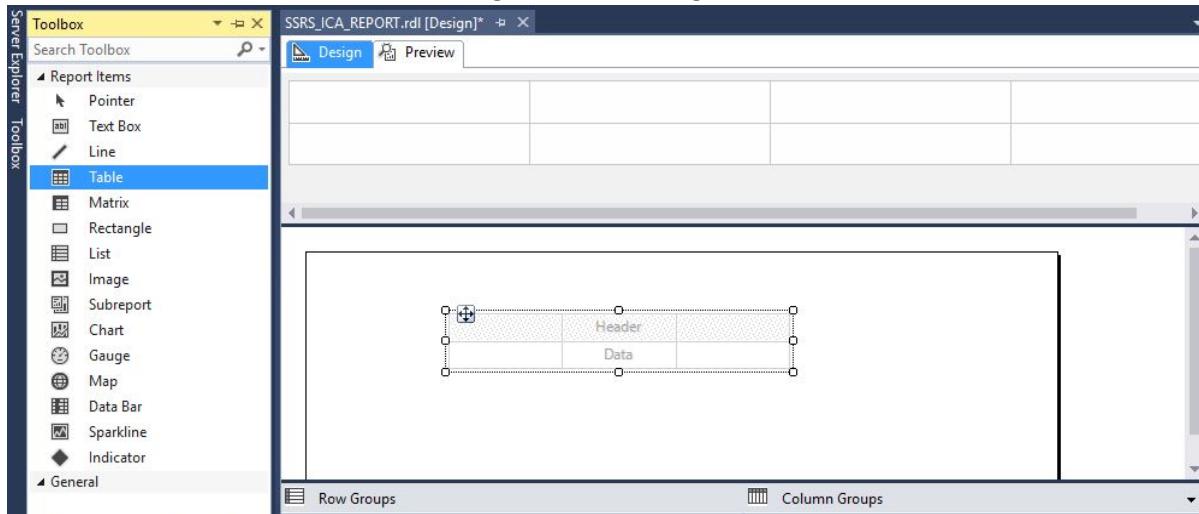
Once you are happy with the data in the Dataset Properties area click ok, this will create the fields within the Report Data > Datasets area.



5.2.5 Designing the Report

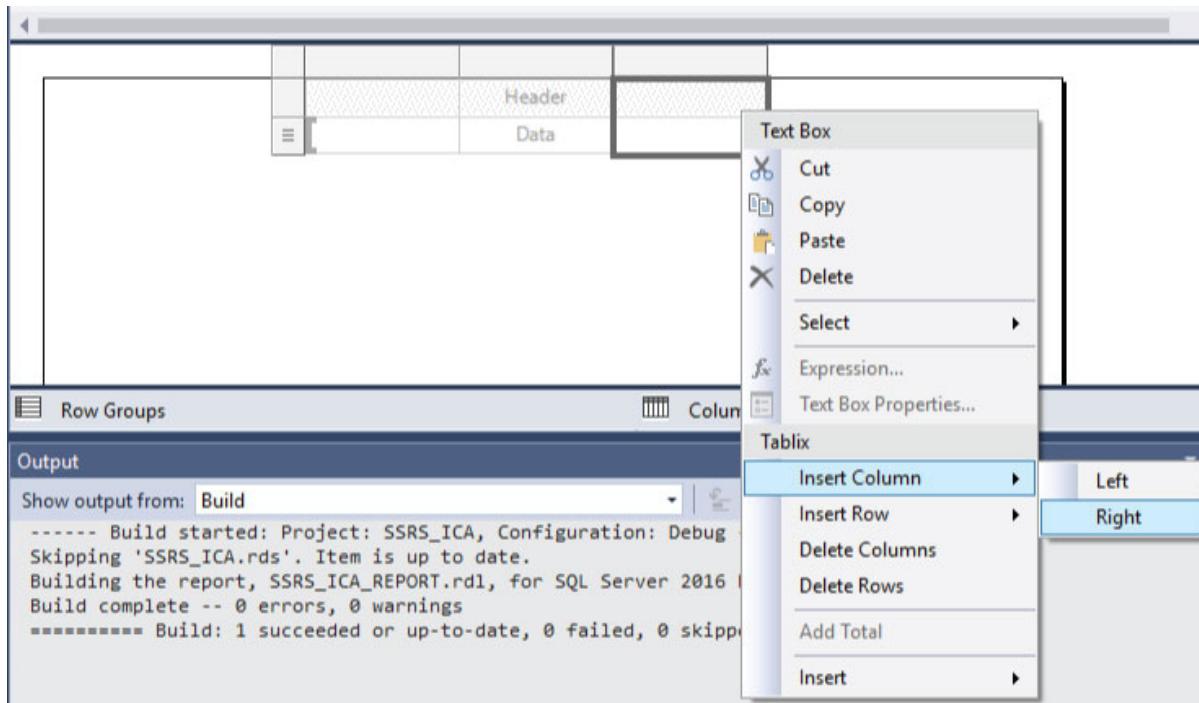
5.2.5.1 Report Layout

Within the toolbox, select table and drag it into the design surface. This will result in a 3 x 2 table.



5.2.5.2 Adding Columns

To add more columns to the table, select any column and right click, hover over select column and chose where you want extra columns.



5.2.5.3 Formatting the table

Once you have added both the header and data fields in, you can then colour the table using the formatting toolbar. This is located at the top of the window.



5.2.5.4 Previewing the table

After you get the table looking the way you want you can click the preview tab, this will show the table with the data in it.



5.2.6 Formatting the report

As we do not need the time stamp in the 'Date coached' I am going to format that particular cell to remove it.

5.2.6.1 Formatting the Date column

Right click the DateCoached column, or any date column that maybe in your table, and click 'text ox properties.'

The screenshot shows a report design in SSMS. The report has five columns: 'Salon Name', 'Employee Name', 'Training Activity', 'Date coached', and 'Passed'. The 'Date coached' column is currently selected, indicated by a yellow border. A context menu is open at the top of this column, with the option 'Text Box Properties...' highlighted in blue. Other options in the menu include 'Cut', 'Copy', 'Paste', 'Delete', 'Select', 'Expression...', and 'Tablix' (with sub-options like 'Insert Column', 'Insert Row', etc.). Below the report preview, there is a 'Build' output window showing the build process results:

```
----- Build started: Project: SSRS_ICA, Configuration: Debug -----
Skipping 'SSRS_ICA.rds'. Item is up to date.
Skipping 'SSRS_ICA_REPORT.rdl'. Item is up to date.
Build complete -- 0 errors, 0 warnings
===== Build: 1 succeeded or up-to-date, 0 failed, 0 skipped =====
```

5.2.6.2 Text Box Properties

Within the Text Box Properties click the number tab, click date and chose the date of your choice, in this example I have gone with '31 January 2000' format, this will display only the date, as follows:

The screenshot shows the report preview in SSMS. The 'Design' tab is active, and the 'Preview' tab is selected. The report table now displays the date '31 January 2000' in the 'Date coached' column for all three rows. The report structure is identical to the one shown in the previous screenshot, with columns for 'Salon Name', 'Employee Name', 'Training Activity', 'Date coached', and 'Passed'.

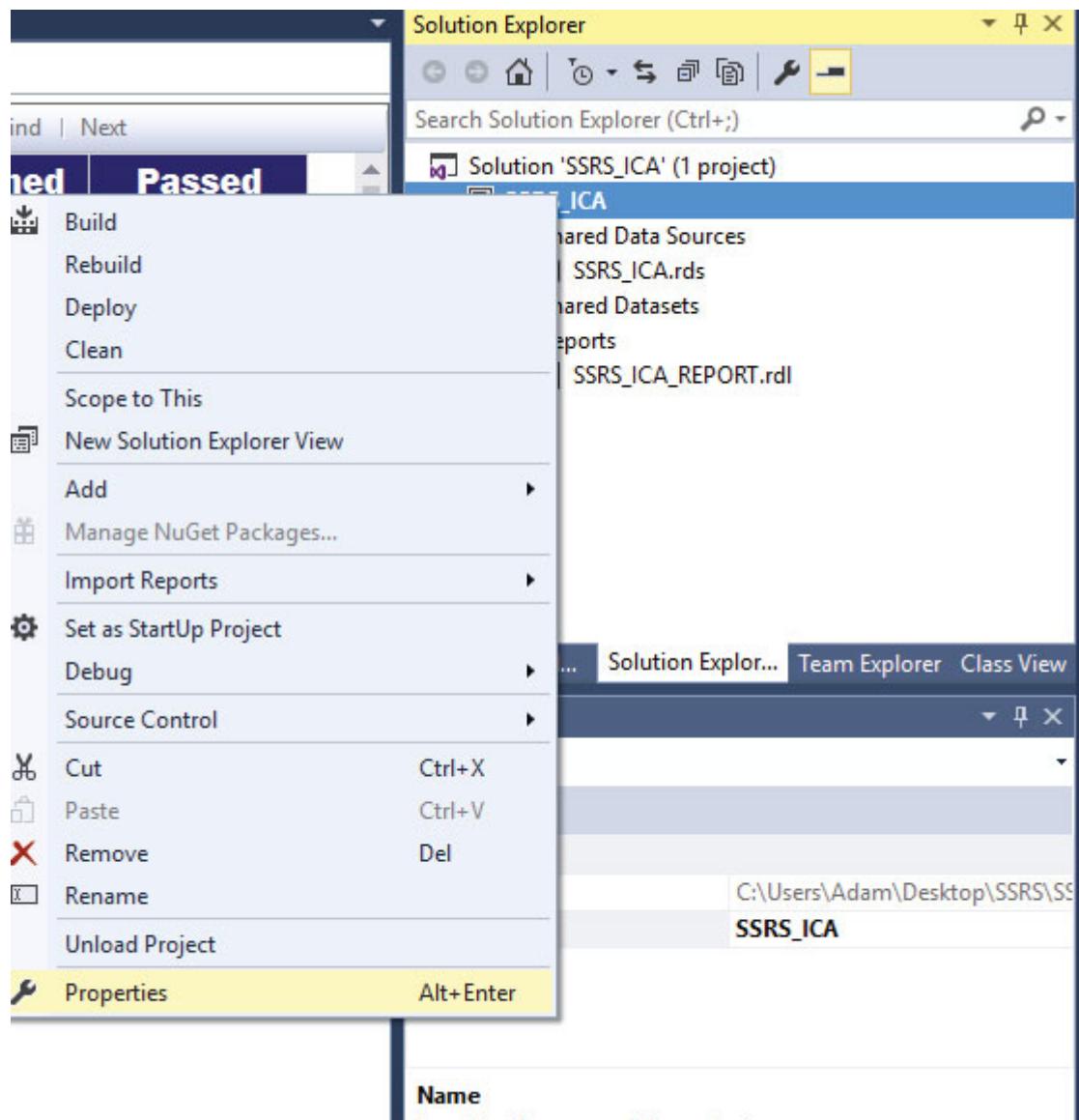
Salon Name	Employee Name	Training Activity	Date coached	Passed
Guappo Hair Design	Karl	MensCut	31 January 2000	True
Guappo Hair Design	Brogham	BeardPrecision	31 January 2000	True
Guappo Hair Design	Helen	Tanning	31 January 2000	True

5.2.7 Deploying the Report

This section will provide knowledge on how to deploy the report to any chosen URL.

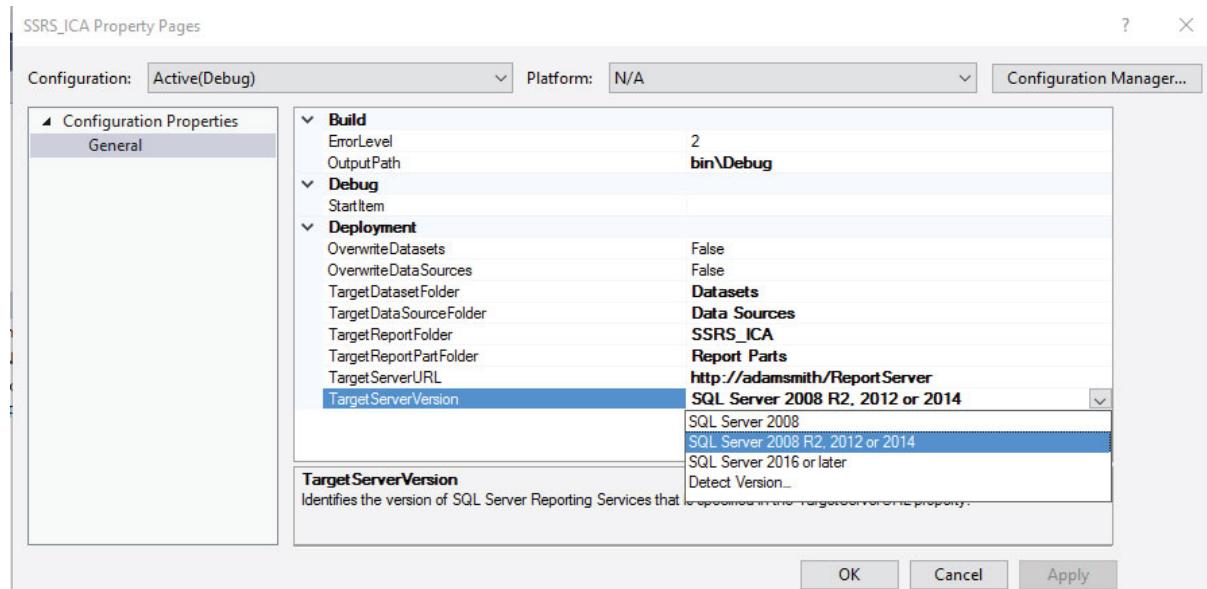
5.2.7.1 Properties

Right click the project and click properties.



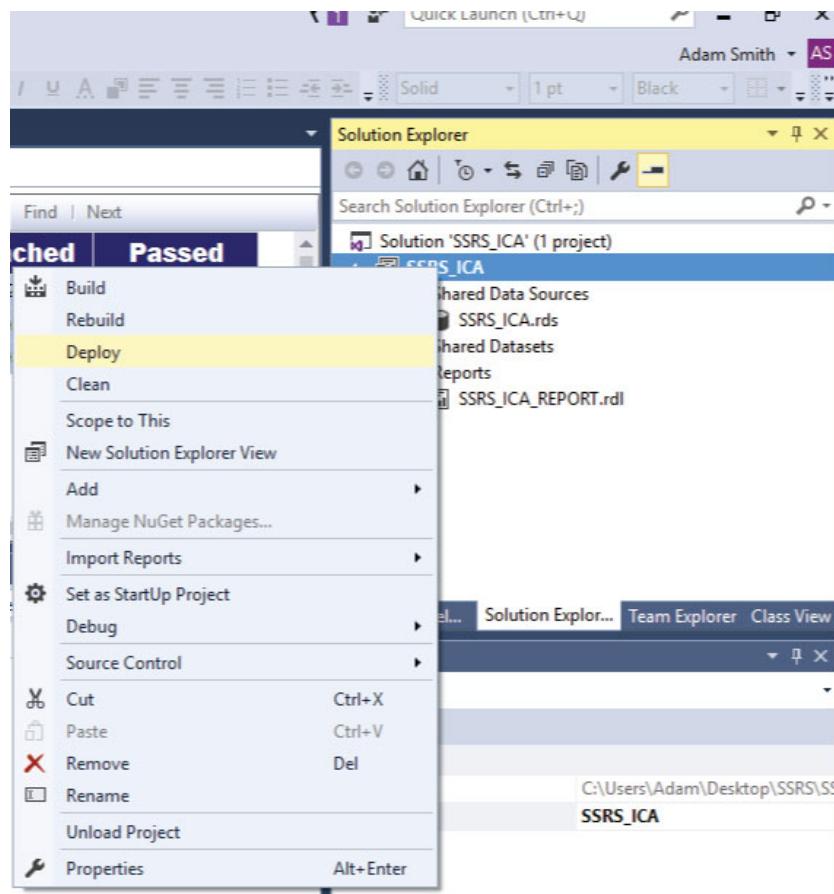
5.2.7.2 Properties

Within properties make sure you have the correct version of SQL highlighted, since I'm using 2014 I have selected 'SQL Server 2008 R2, 2012 or 2014'. Also, the 'TargetServerURL' is the URL where the reports can be viewed. (I have it set to local host here, but it would be the Report Server URL).



5.2.7.3 Deploy

To deploy the report to the previously set URL, right click the project and click report. This then sends the report to that URL. A report folder containing all reports can be viewed at that URL.



5.3 SQL Server Analysis Services (SSAS)

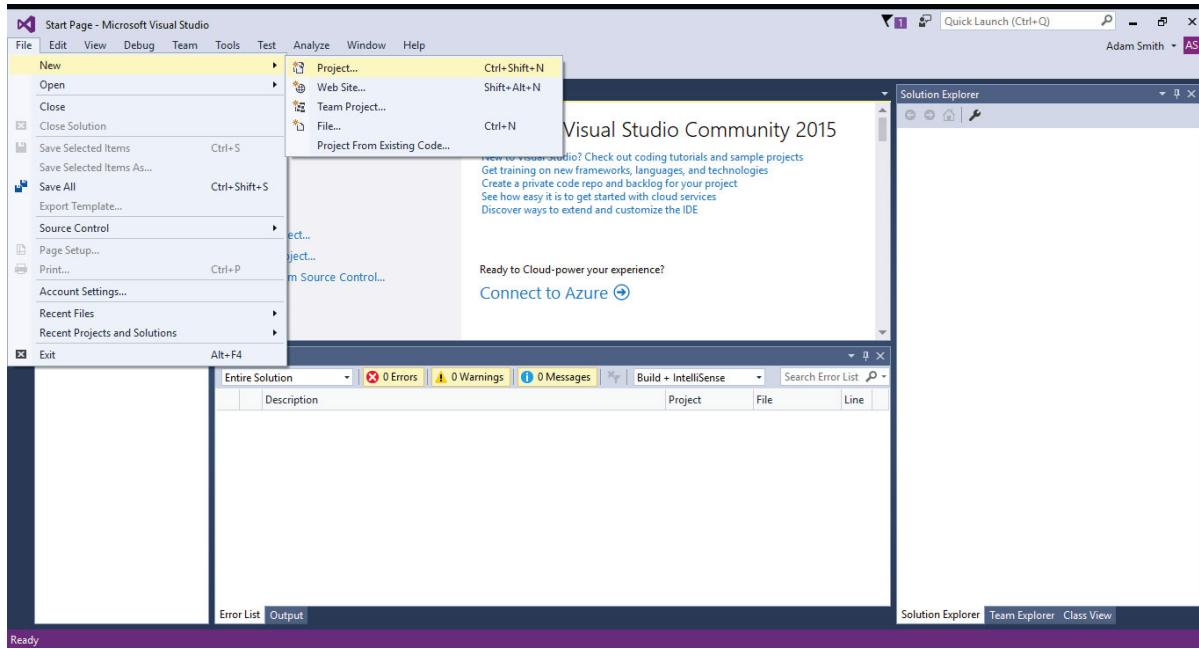
SQL Server Analysis Services should be used to create answers for Online Analytical Processes (OLAP.) (TechNet, 2017) It supports Online Analytical Services by supporting the functionality of Business Intelligence (BI), this includes data mining models and data cube applications.

5.3.1 Creating an SSAS package

Firstly we need to create the application using Visual Studio, I'm using 2015 version.

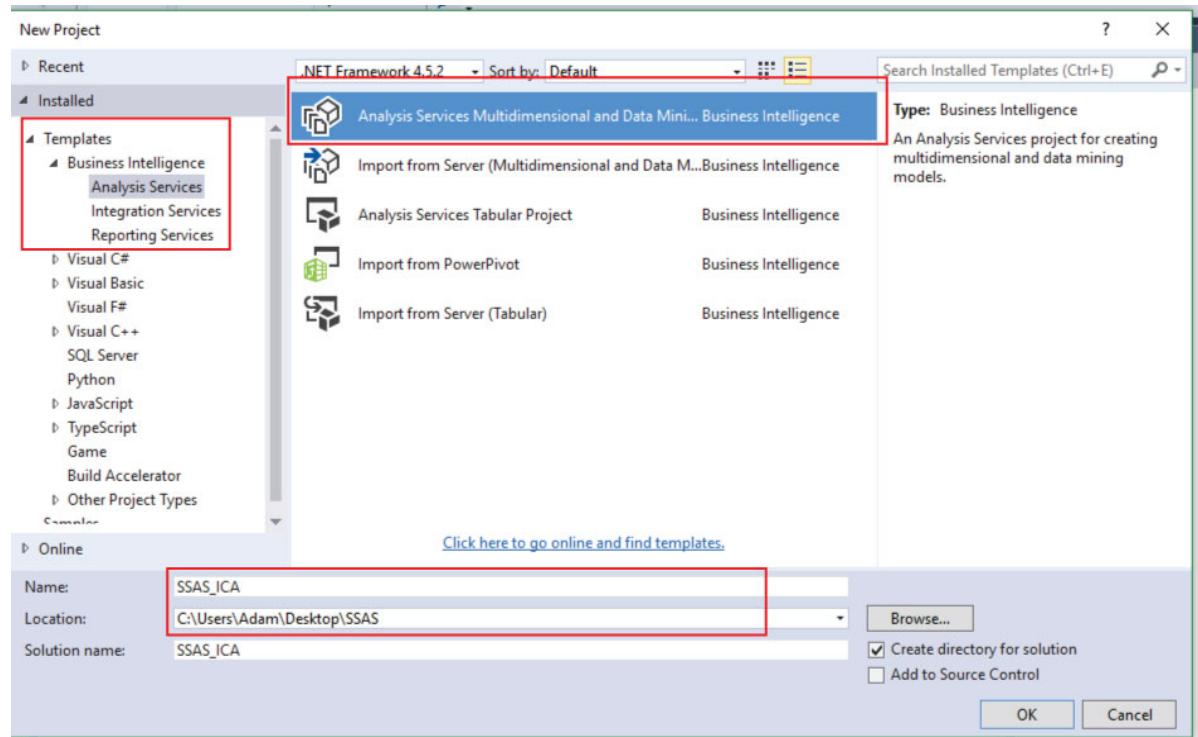
5.3.1.1 New Project

Within Visual Studio click File, new project.



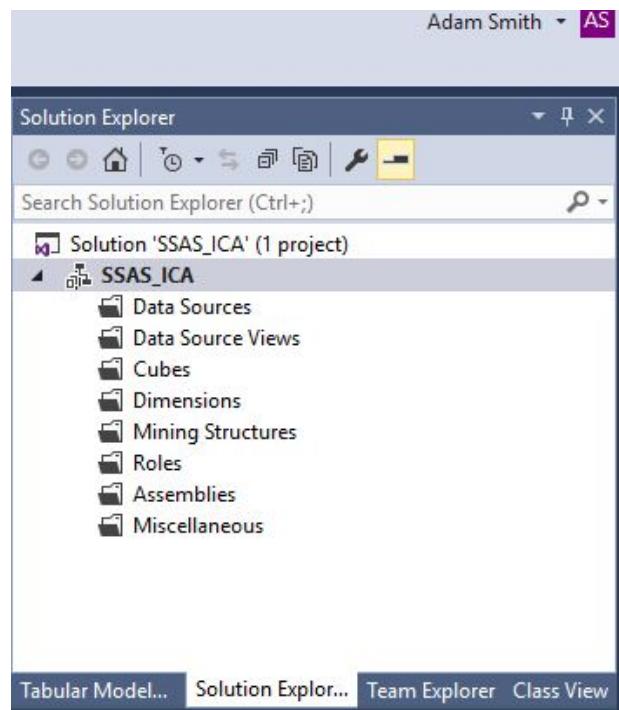
5.3.1.2 Select Analysis Service

Within the New Project window and within the Business Intelligence tab, select Analysis Service and select 'Analysis Services Multidimensional and Data Mining Project'. Give it a relevant name and save it in a convenient location.



5.3.1.3 Project Location

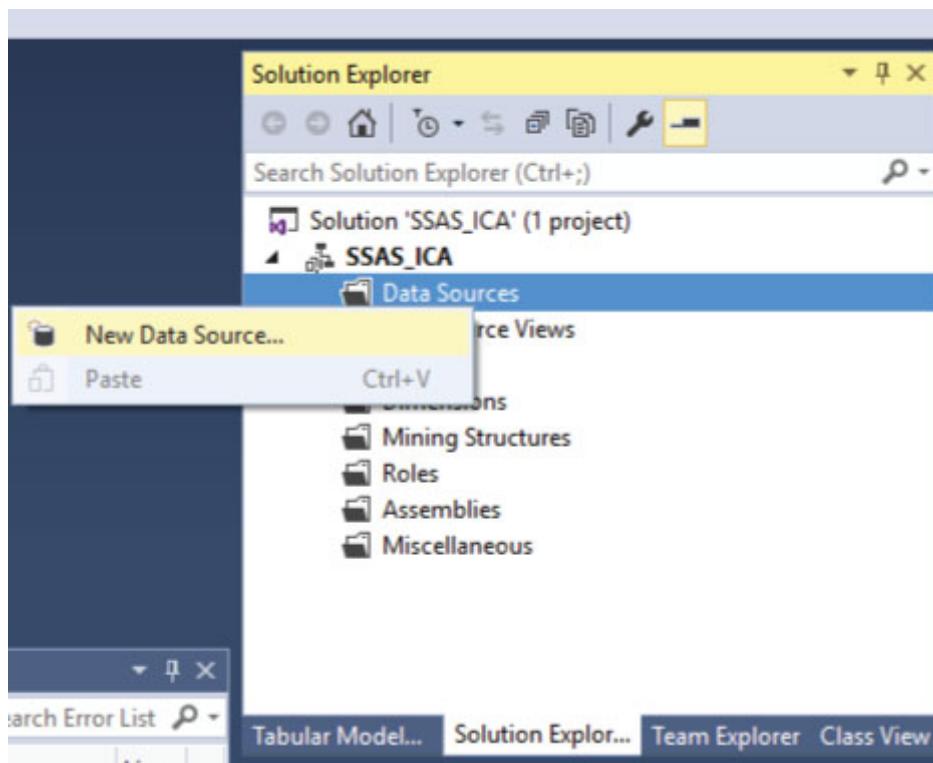
After the previous step the project will have been created and the full package can be seen in the Solution explorer.



5.3.2 Configuring Data Source

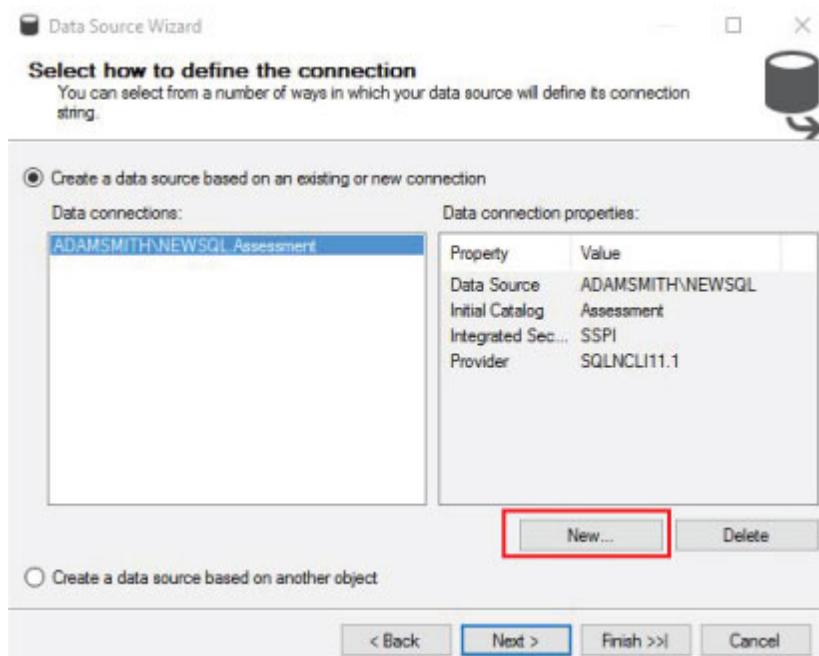
5.3.2.1 New Data Source

Right click 'Data Sources' and click new Data Source.



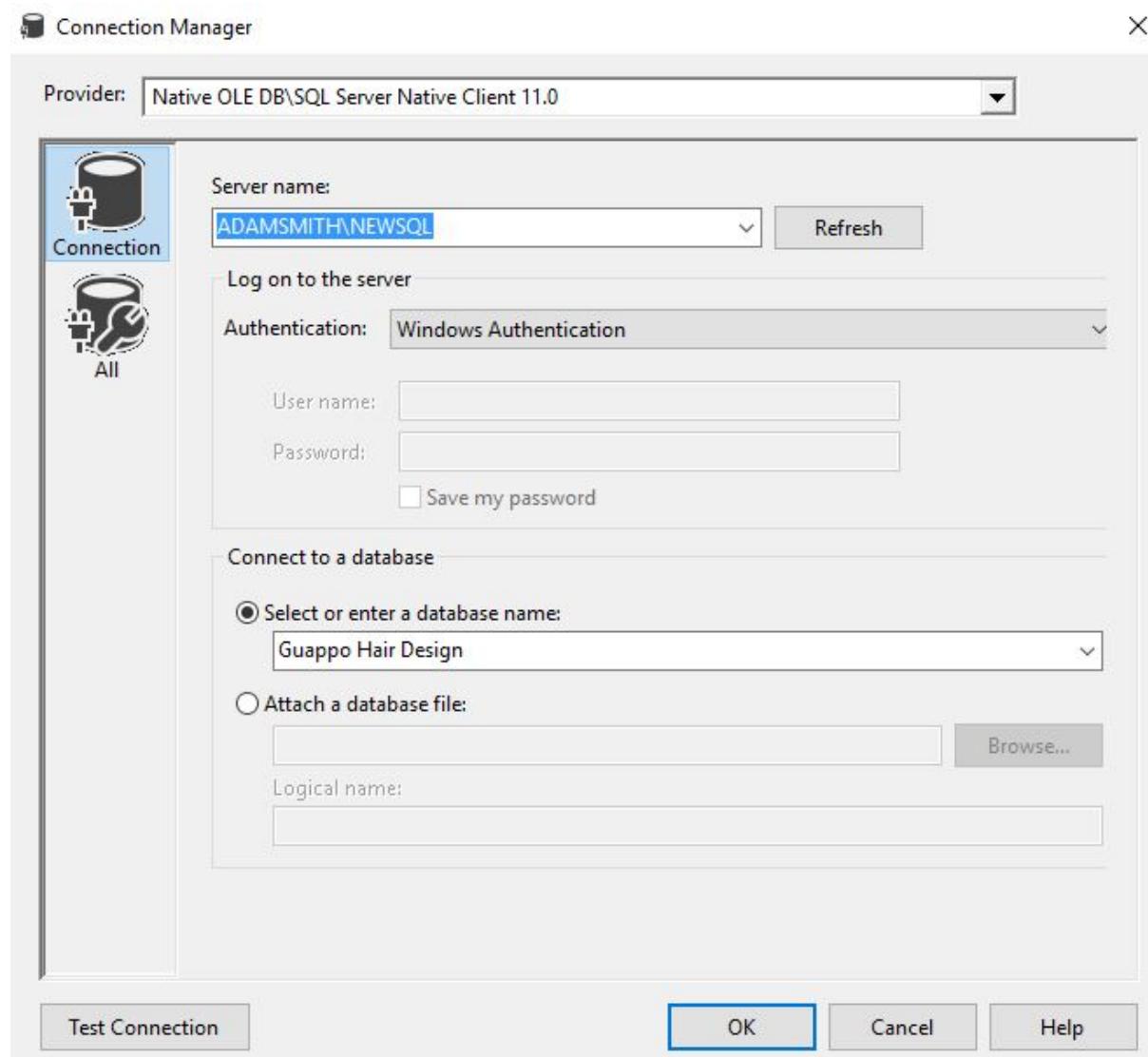
5.3.2.2 New Data Source

If the correct Data connection is already in place; click next, otherwise click new.



5.3.2.3 Connection Manager

In the connection manager screen, enter the Server name, the correct authentication, in this example its Windows Authentication and select the Database name.



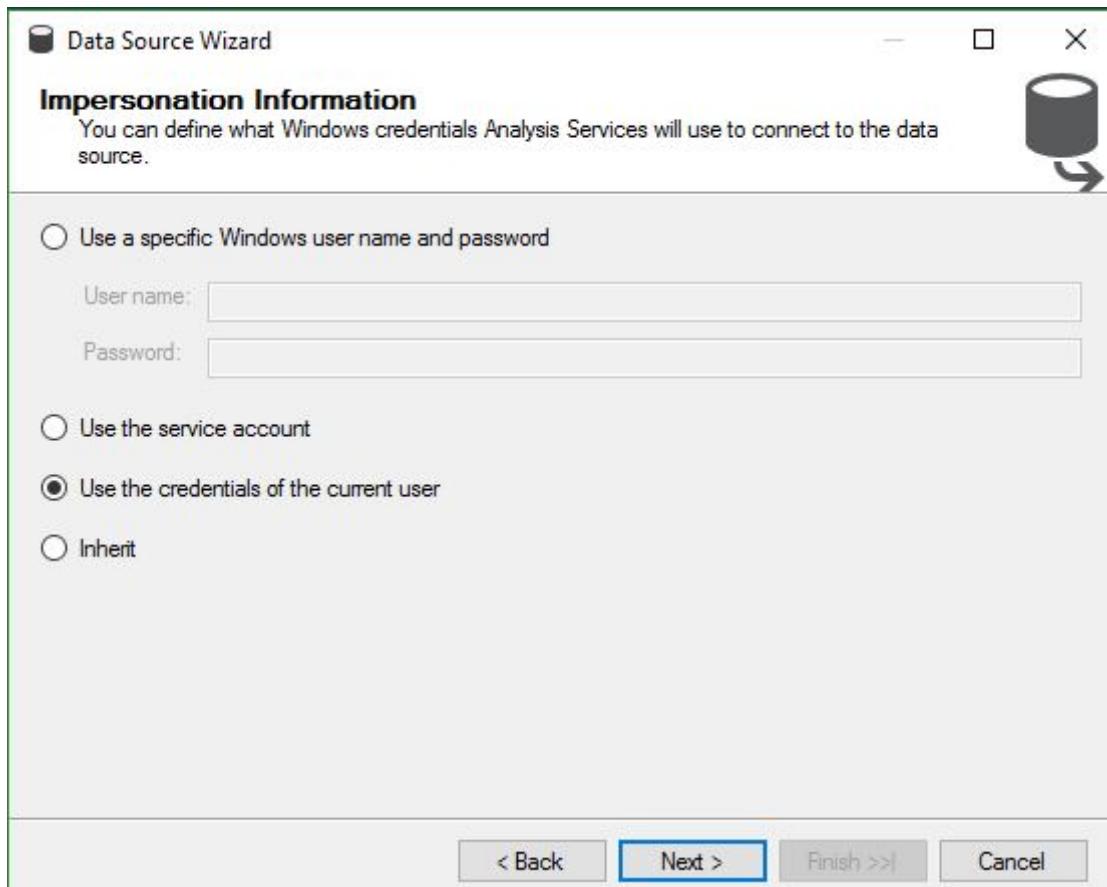
5.3.2.4 Test Connection

In the bottom left of the connection manager screen there is a 'Test Connection' button, click it to see if the connection to the database is a success. Click ok, then ok again.



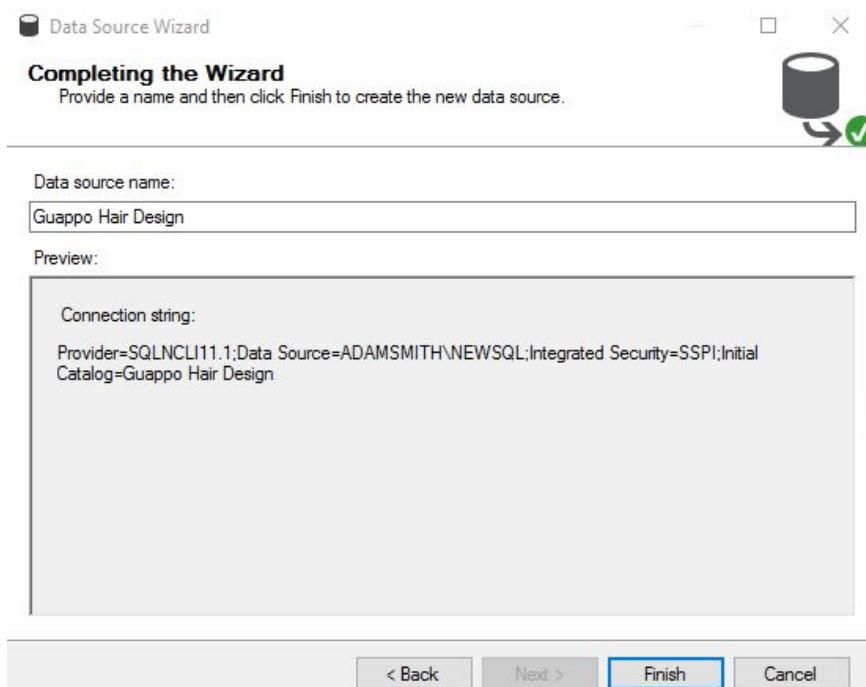
5.3.2.5 Impersonation Information

You will then be brought to a screen to enter credentials which the Analysis Services will use to connect to the Data Source, in this example I am using the credentials of the current user, click next.



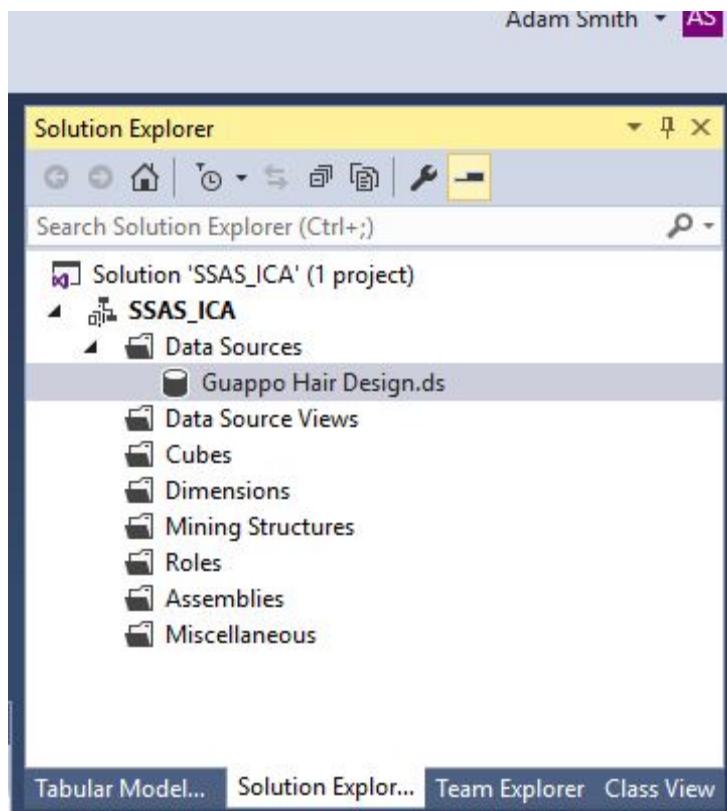
5.3.2.6 Preview Page

This page is simply a preview of steps completed so far, click finish.



5.3.2.6 Data Source Complete

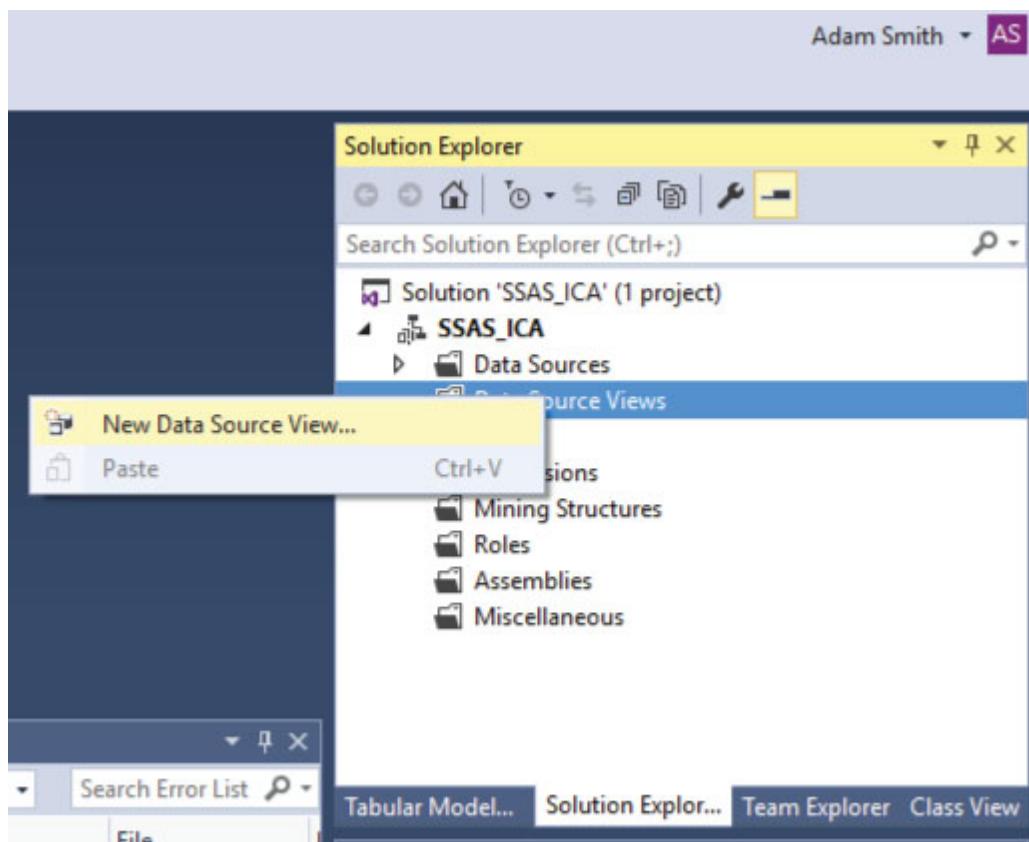
You will now be able to see your newly added data source Within the Solution Explorer.



5.3.3 Configuring Data Source Views

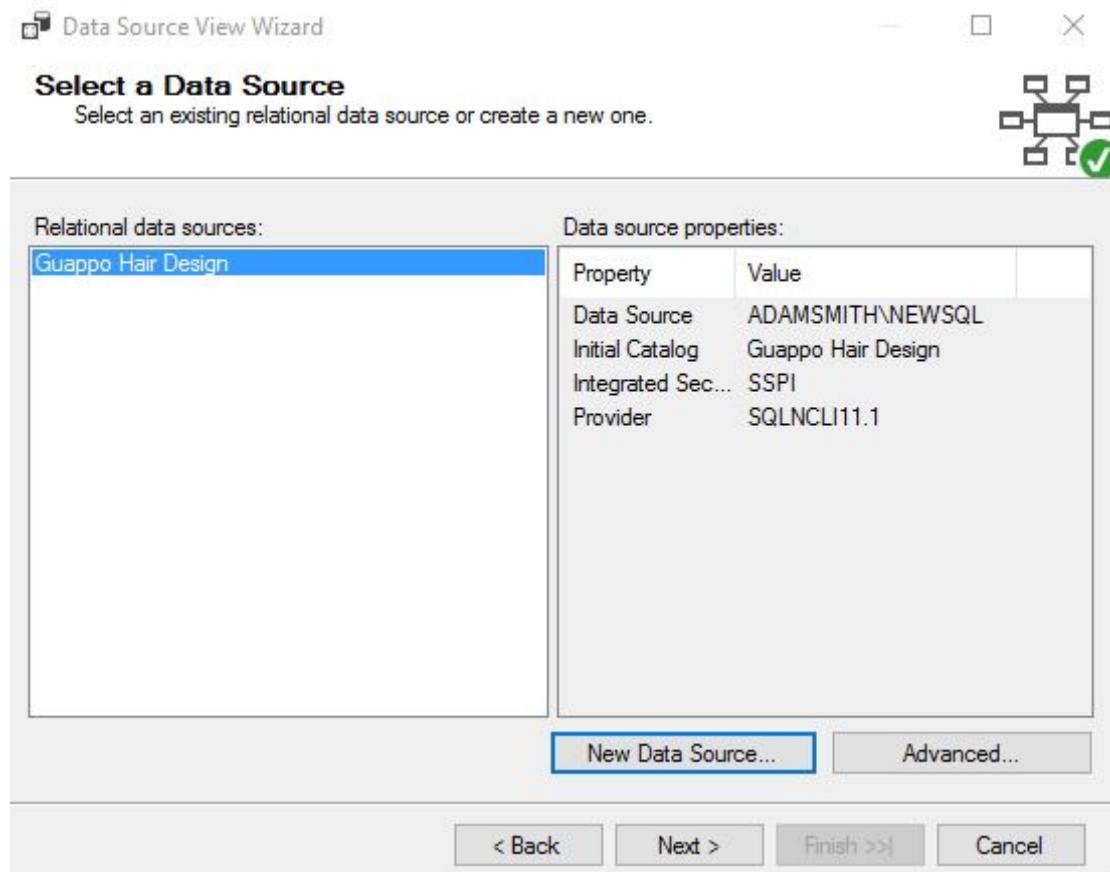
5.3.3.1 New Data Source View

Right click 'Data Sources' and click new Data Source View.



5.3.3.2 New Data Source View

As we have already created a new data source, it should already be selected; click next.



5.3.3.3 New Data Source View

Select which tables you want to be included in the data source view, click next.

Name	Type
All_Bookings (dbo)	View
All_Future_Bookings (dbo)	View
All_Reviews (dbo)	View
forum (dbo)	View
Invoice (dbo)	View
Maintenance_Date (dbo)	View
Negative_Reviews (dbo)	View
Next_Month_Bookings (d...)	View
Positive_Reviews (dbo)	View
Price_List_View (dbo)	View

Name	Type
Booking (Booking)	Table
BookingTime (Booking)	Table
Customer (Customer)	Table
Treatment (Treatment)	Table
TreatmentType (Treatment)	Table

5.3.3.4 Name the view

Name the view fit for purpose, click finish.

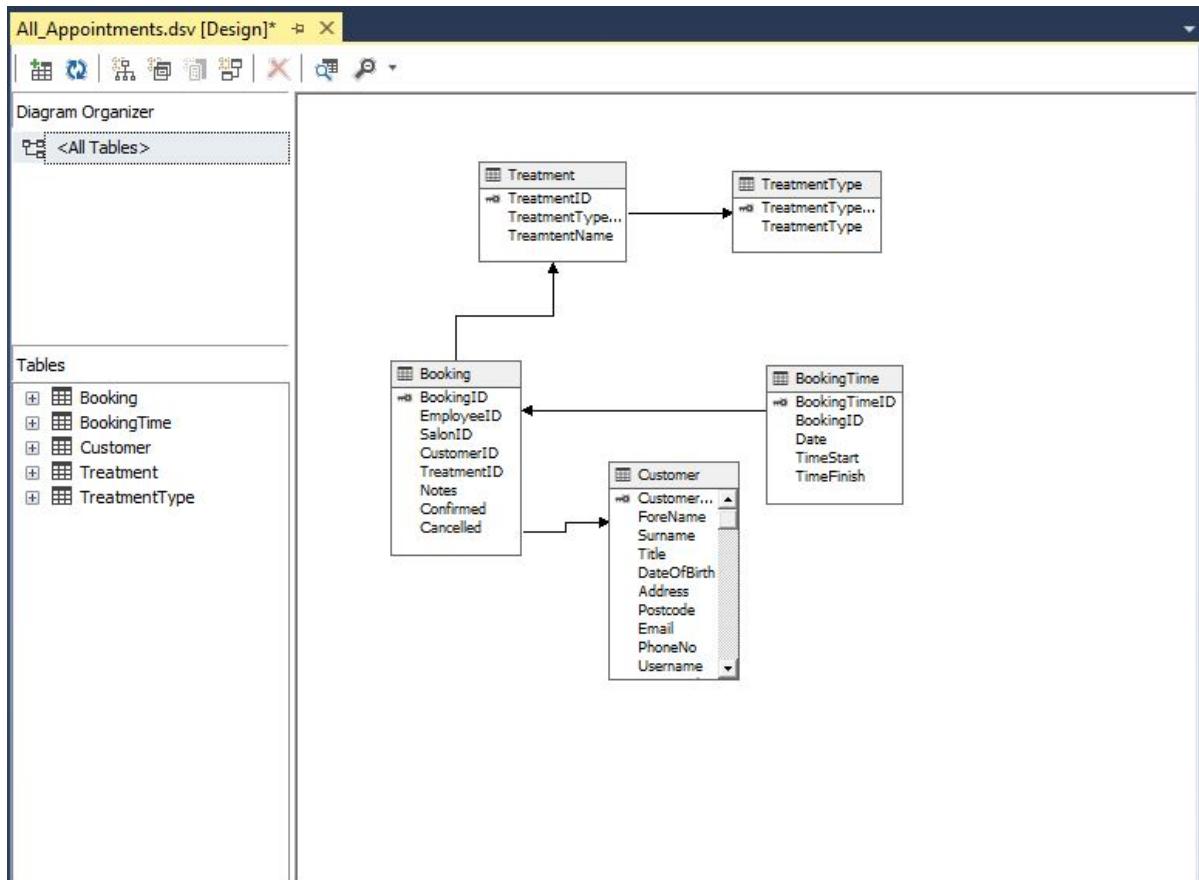
Name:
All_Appointments

Preview:

- All_Appointments
 - Booking (Booking)
 - BookingTime (Booking)
 - Customer (Customer)
 - Treatment (Treatment)
 - TreatmentType (Treatment)

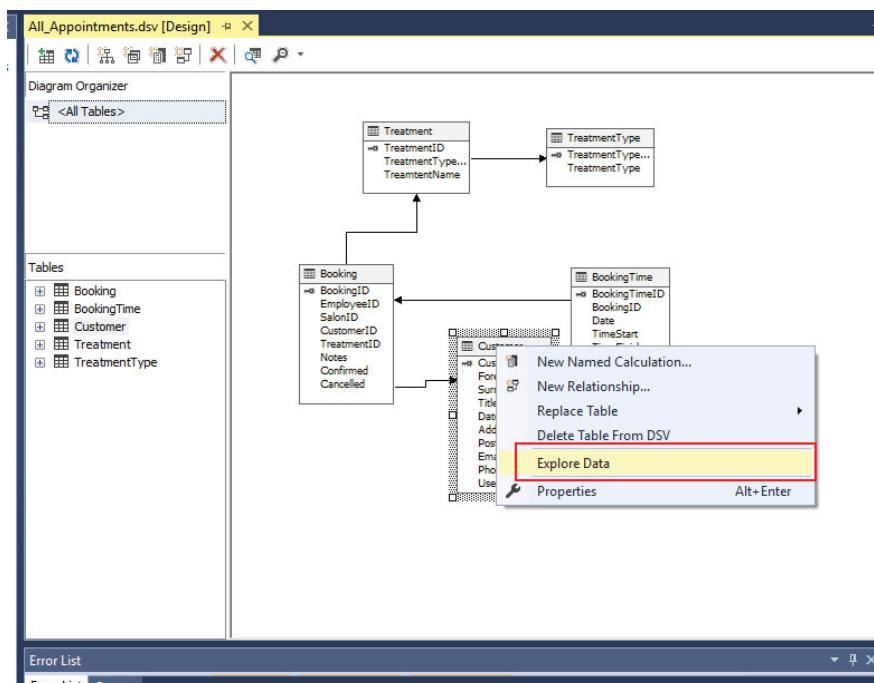
5.3.3.5 Design View

The design pane will now have all the tables you included in your view showing their relationships and keys.



5.3.3.6 Explore Data

At this point it may be useful to explore the data within one, or more, of the tables. Right click a table and select 'Explore Data'.



5.3.3.6 Table Data

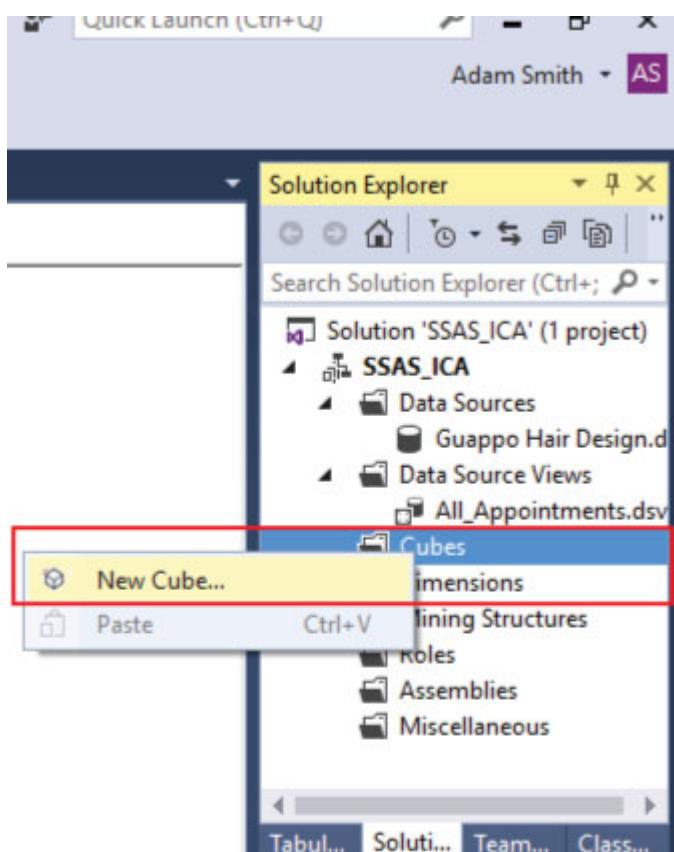
This will show all of the information within that particular table.

Explore Customer Table ▾ X All_Appointments.csv [Design]							
CustomerID	ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email
1	Adam	Smith	Dr	1988-07-29 00:00:00Z	17 Rosebay Close, Shotton	DH6 2LH	Smith06@hotmail.co.uk
2	James	Coils		1976-09-30 00:00:00Z	29 Hawthorne crescent, Trimdon	SR8 2LA	James.Coils@yahoo.com
3	Helen	Ferguson	Miss	1992-03-16 00:00:00Z	47 Lilac Terrace, Horden	E6 4GO	FergieFergie@gmail.com
4	Ruth	Flemming	Mrs	1964-03-28 00:00:00Z	45 Grey Street, Ingleby Barwick	TS1 4PU	Fleming_Ruth@Gmail.com
5	Latisha	Brown	Mrs	1973-05-20 00:00:00Z	269 North Hyde La, Hounslow, Southal	UB2 5TE	Latisha73@hotmail.co.uk
6	Elaine	Simpson	Mrs	1982-06-02 00:00:00Z	48 Dawson Road, Wingate	DH5 P89	Simpson1982@gmail.com
7	Ted	Grant	Mr	1983-02-02 00:00:00Z	81 Wellfield Crescent	SR4 9PL	Granty_1212@hotmail.co.uk
8	Steven	Blakey	Mr	1985-08-08 00:00:00Z	21 Shotton View, Mount Pleasant	M3 8PL	Blakey1985@yahoo.co.uk
9	Kirsty	Fishwick	Miss	1992-02-02 00:00:00Z	Wessington Way, Peterlee	SR3 9PH	Kirsty.Fishwick1992@yahoo.com
10	Megan	Slater	Miss	1992-12-25 00:00:00Z	25 Langley Park, Durham	DH1 3NU	Megan.Slater@hotmail.com
11	Jacky	Stansfield	Miss	1964-05-05 00:00:00Z	67 Front Street, Coxhoe, Durham	DH2 3PU	Jacky.Stansfield@bt.com
12	Carly	Mitchell	Mrs	1988-08-06 00:00:00Z	32 Victoria Street, South Hetton	DH4 7PH	Carly.cm88@hotmail.co.uk

5.3.4 Creating Cube & Dimensions

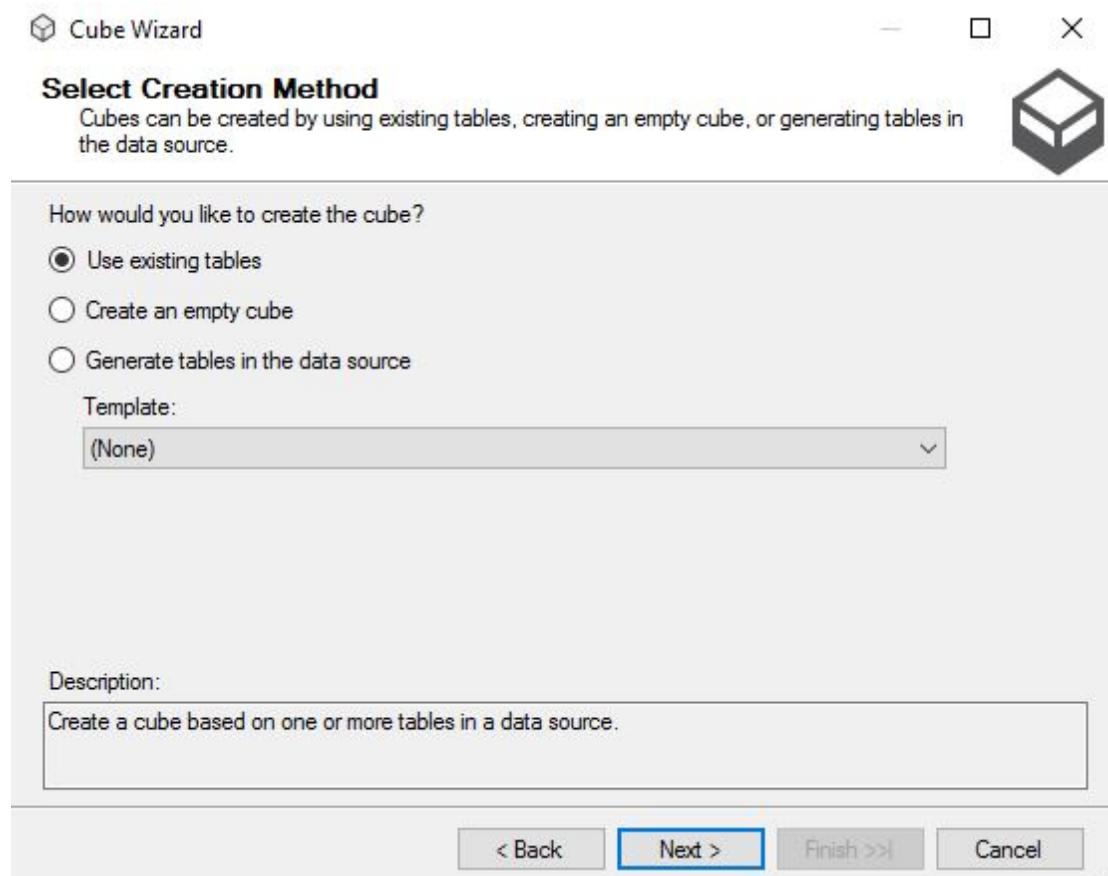
5.3.4.1 New Cube

Within the Solution Explorer click 'Cubes' and select New Cube.



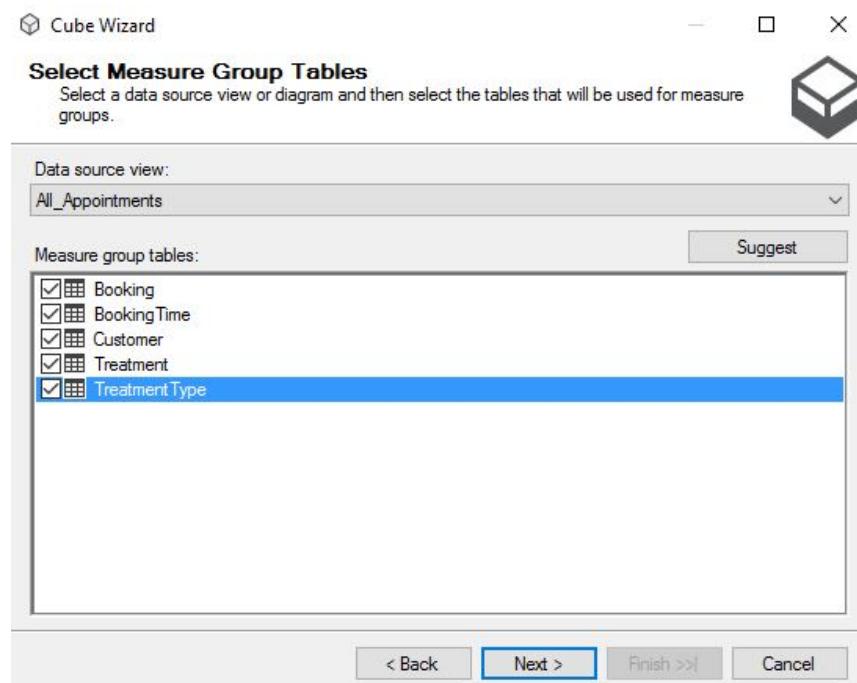
5.3.4.2 Existing Tables

Ensure that 'Use existing tables' is checked and click next.



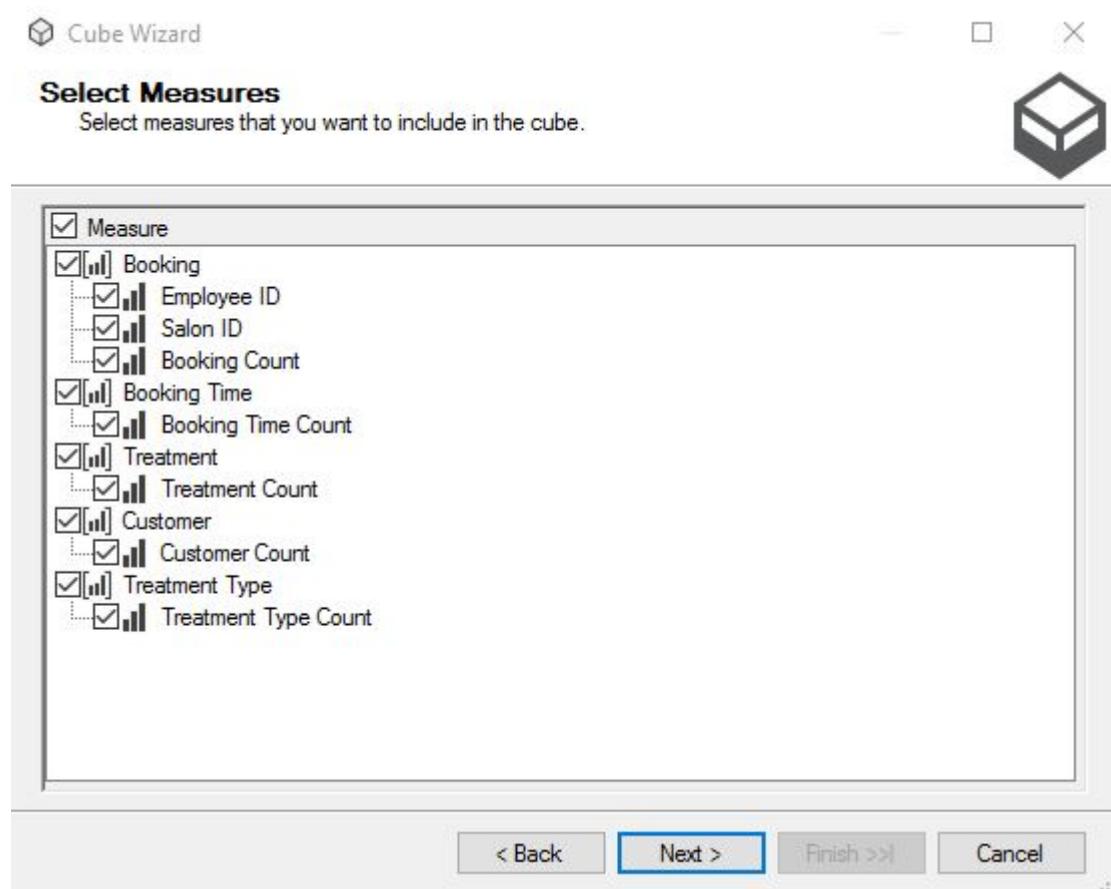
5.3.4.3 Existing Tables

Select the Data Source View you have already created and then select the tables, click next.



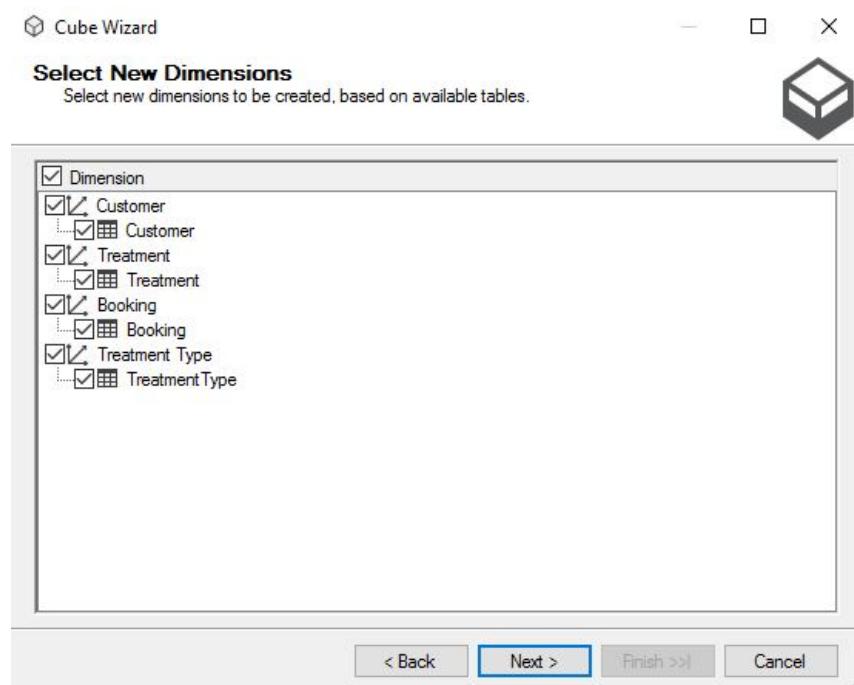
5.3.4.4 Select Measures

Select all of the measures you want to include in the cube, click next.



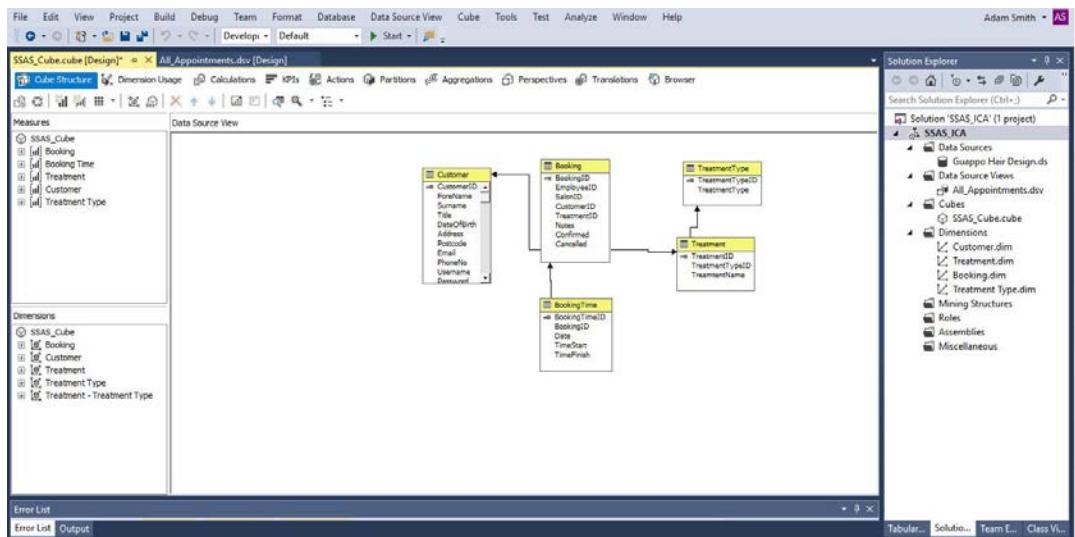
5.3.4.5 Select New Dimensions

As no dimensions have been created the Cube Wizard will ask you to select new dimensions based on the available tables, select the tables you need and click next.



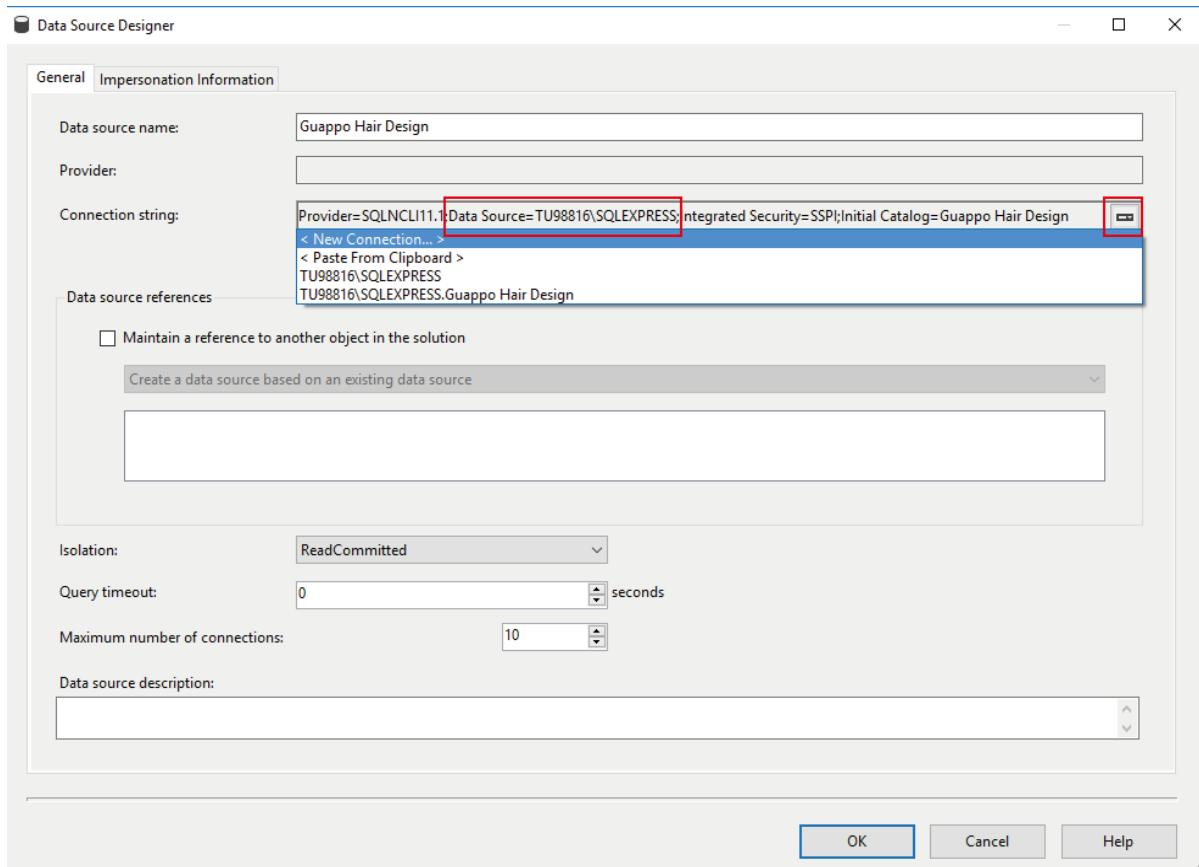
5.3.4.6 Cube Design

After clicking finish, the design pane will now have all the tables you included in your Cube showing their relationships and keys. Note that within the Solution Explorer, both the cube and the dimensions have been added.



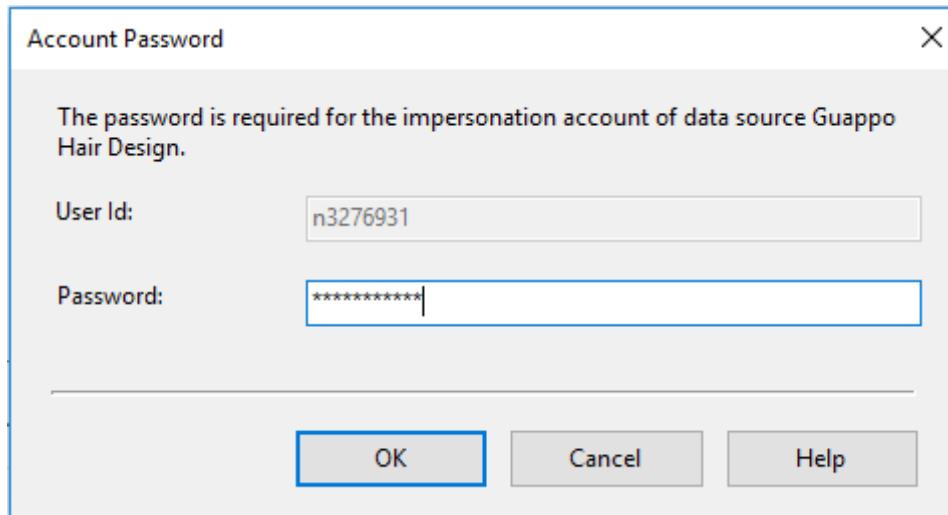
5.3.4.6 Deploy – Connection String

At this point I switched to a computer at University and had to change the connection string to connect to my database on a different computer. Because the name of the database remains the same, the only thing I need to change is the source name. Using the drop-down box on the right it is then possible to see my database, named ‘Guappo Hair Design’.



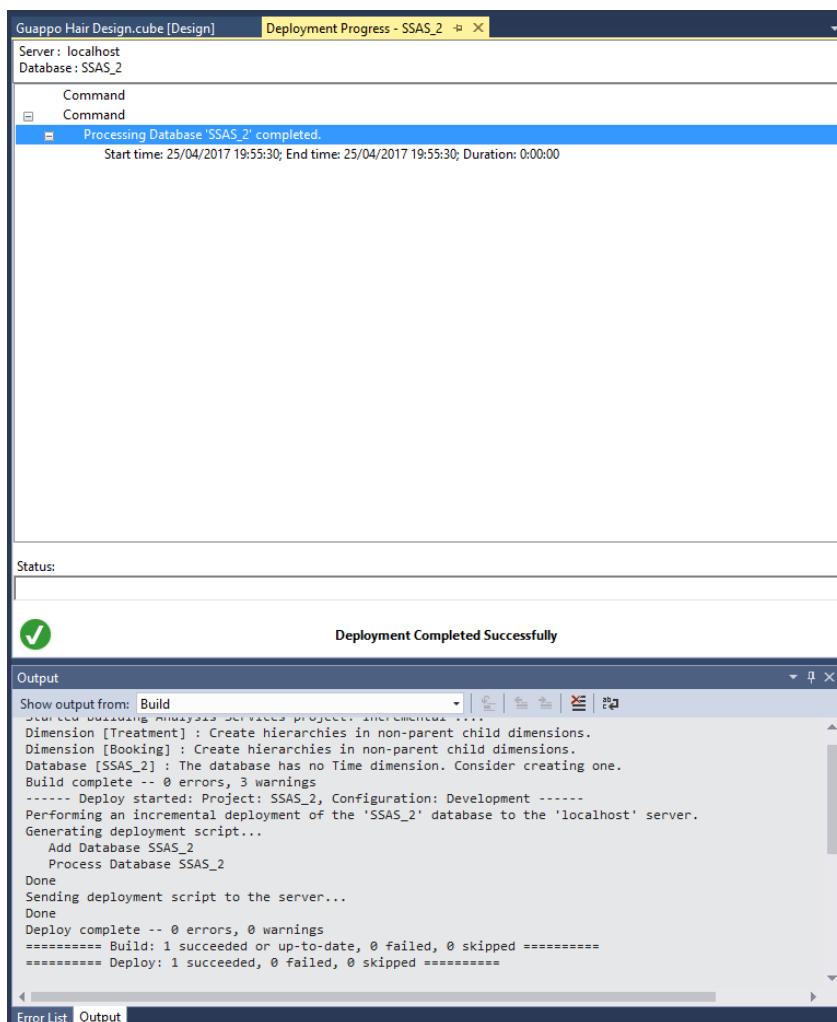
5.3.4.7 Deploy – Account Password

Because I switched to the university computer to finish off the deployment, it asked me to put in my credentials since the Data Source only worked with the ‘Impersonation Information’ set too ‘Use a specific Windows user name and password’.



5.3.4.8 Deploy – Success

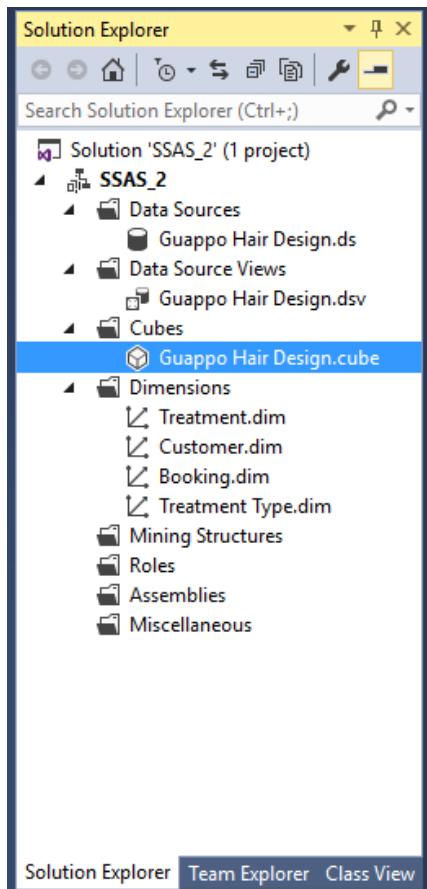
Within the ‘Deployment Progress’ window, you will see the success message.



5.3.5 Data Output

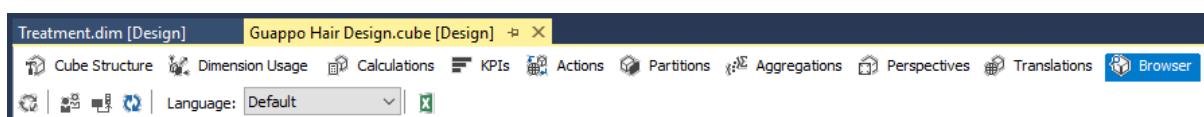
5.3.5.1 Finding the outputs

First thing to find the output data is to double click the cube.



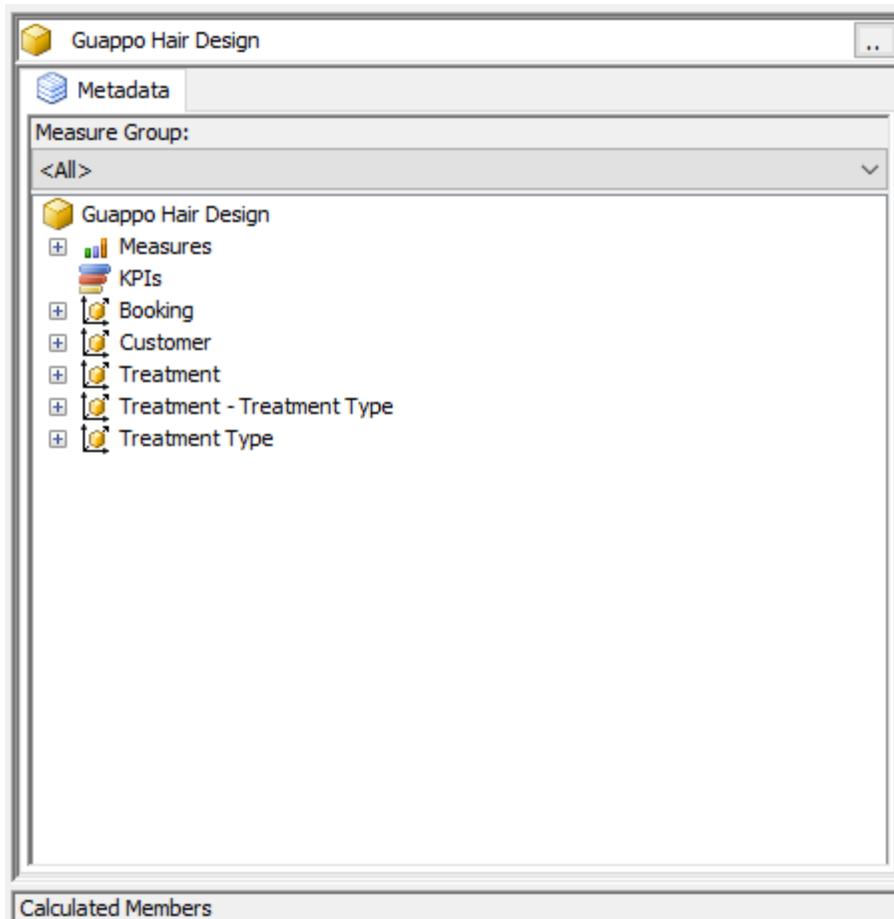
5.3.5.2 Browser tab

Along the top of the Cube pane you will see a Browser tab, click it.



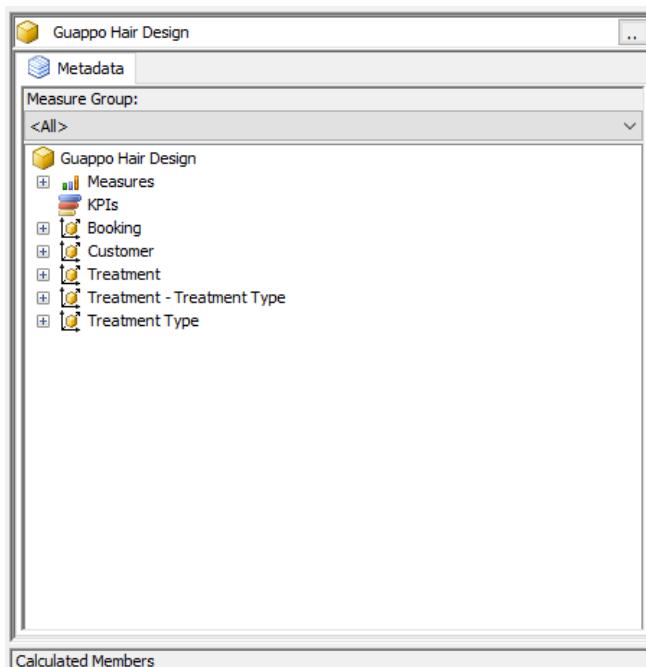
5.3.5.3 Data

All of the cube data can then be found on the left within the 'Metadata' pane.



5.3.5.4 Data

All of the cube data can then be found on the left within the 'Metadata' pane.



5.3.5.5 Add a measure to the design view

To add a measure, drag it into the design pane. In this instance I am using the 'Customer Count' measure, this tells me that I have 12 customers in my database.

The screenshot shows the Analysis Services Designer application window titled 'Guappo Hair Design'. On the left, the 'Metadata' tab is selected, displaying the 'Measure Group' hierarchy under 'Guappo Hair Design'. The 'Customer' folder contains a 'Customer Count' measure. On the right, the 'Dimension' pane is open, showing a single row for 'Customer Count' with the value '12'. A 'Calculated Members' pane is also visible at the bottom.

5.3.5.6 Creating levels

To add data to the measure you have added, simply expand the tabs under the 'KPI's' icon.

The screenshot shows the 'Metadata' tab in the Analysis Services Designer. The 'Customer' folder under 'Measures' is expanded, revealing the 'Customer Count' measure. This measure is highlighted with a blue selection bar. Below it, the 'Treatment' and 'Treatment Type' folders are shown. To the right, the 'KPIs' section is expanded, showing the 'Booking' folder which contains various booking-related measures like 'Booking ID', 'Cancelled', 'Confirmed', etc.

5.3.5.7 Drag data

Simply drag the data into the pan that you would like to know about the measures you have added, in this case its regarding the customers in my database. In this simple Example I have added the Forename of the Customer.

Fore Name	Customer Count
Adam	1
Carly	1
Elaine	1
Helen	1
Jacky	1
James	1
Kirsty	1
Latisha	1
Megan	1
Ruth	1
Steven	1
Ted	1

5.3.5.8 More Complicated Data

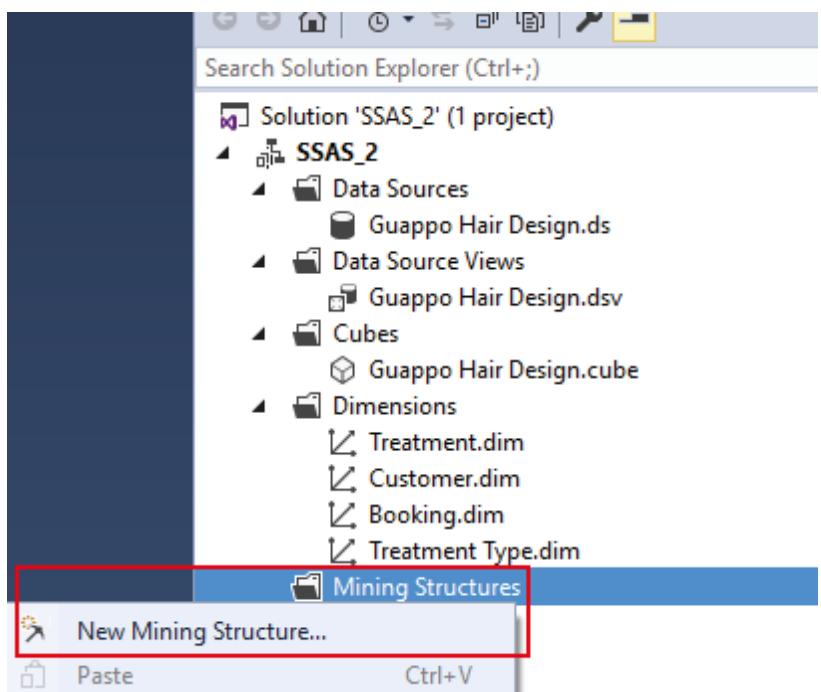
In this slightly more complicated table I have added the measure of 'Booking Count'. The levels I have added to that are, Customer.ForeName, Phone No, address, Booking Notes, Treatment Name, Treatment Type and any notes added in to that specific booking. One online source, (WikiHow, 2016) shows how to add multi-level dimensions into the cube using dates.

Fore Name	Phone No	Notes	Treatment Name	Address	Treatment Type	Booking Count
Adam	07824698886	Hopefully wont take too long!	Tattoo Cover-up	17 Ros...	Tattoo	1
Elaine	07896547866	Fussy Customer, be mindful.	Eyebrow Re-sh...	48 Daw...	Eyebrows	1
Helen	0786492349	Complete re-colour.	Re-colour	47 Lilac...	Mens Colouring	1
James	07824978655	First trial of the new nail art	Custom Nail Art	29 Haw...	Nail Art	1
Latisha	07896548955		Full Body Tan	269 No...	Tanning	1
Ruth	01915264009		Fringe trim	45 Gre...	Womans trim	1

5.3.6 Data Mining

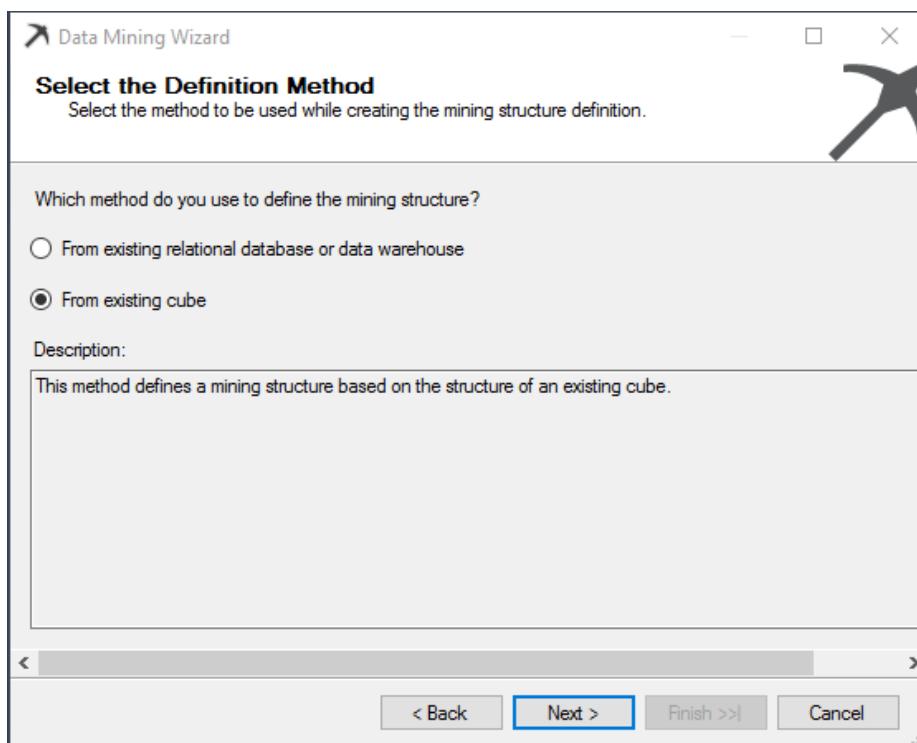
5.3.6.1 Creating a Data Mining Structure

Within the Solution Explorer, right click 'Mining Structures' and click 'New Mining Structure...'.



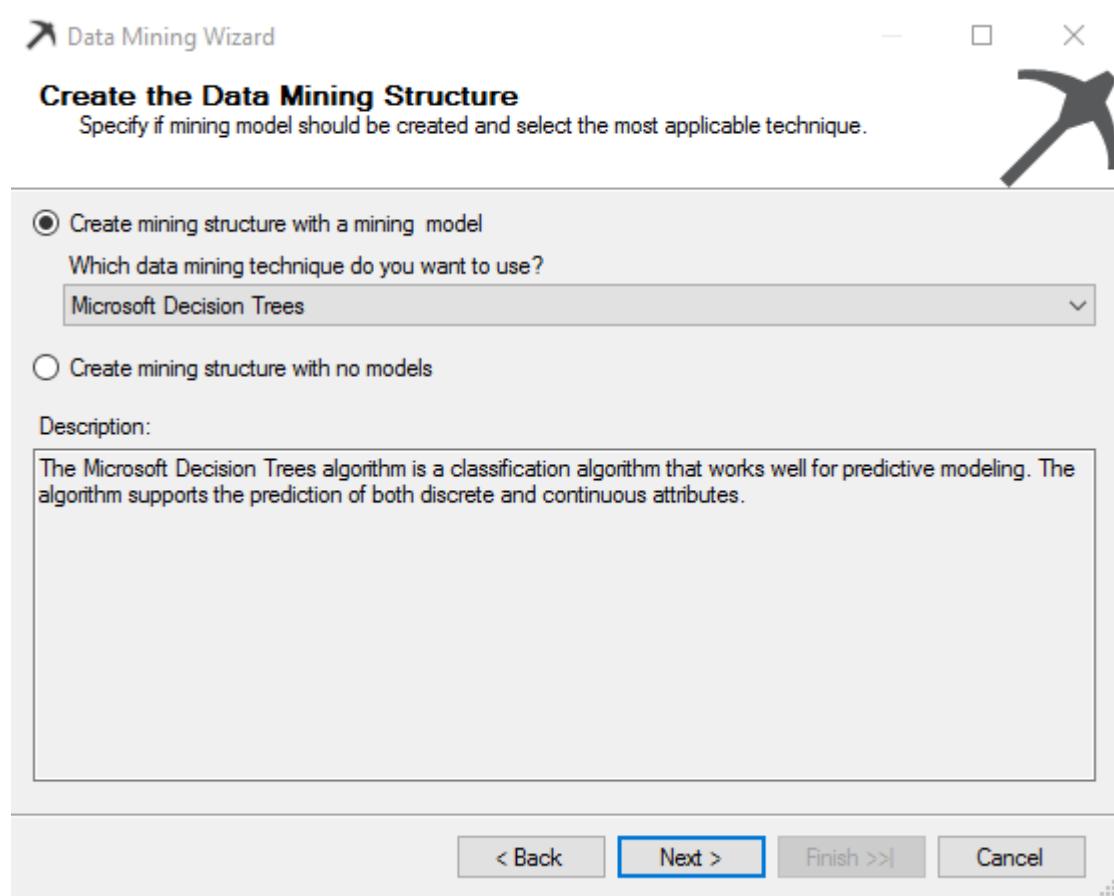
5.3.6.2 Definition Method

As we have created the cube beforehand, we would like the Definition method to be based on that, check the 'From existing cube'



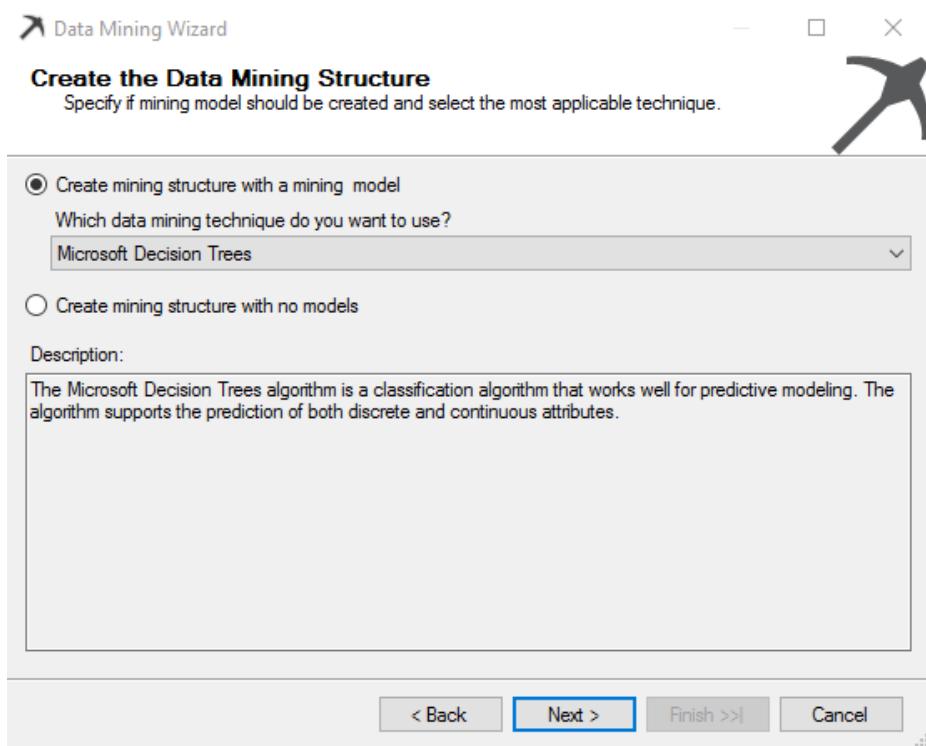
5.3.6.3 Data Mining technique

When selecting the data mining technique, it is important to leave it as default, this should be 'Microsoft Decision Trees'.



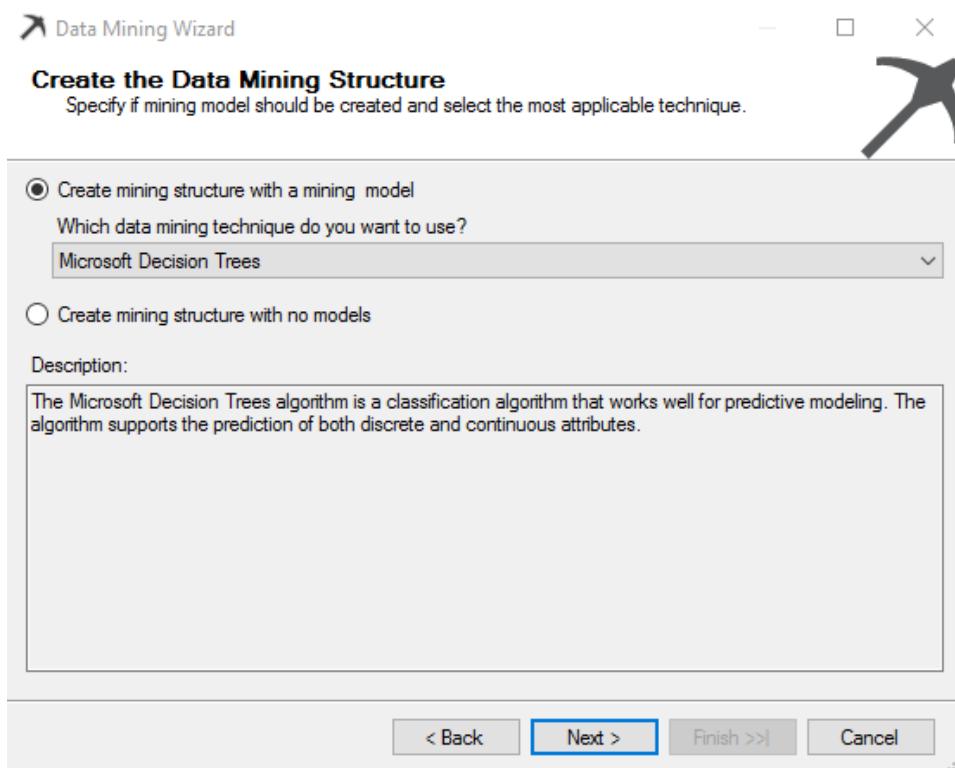
5.3.6.4 Data Mining technique

When selecting the data mining technique, it is important to leave it as default, this should be 'Microsoft Decision Trees'.



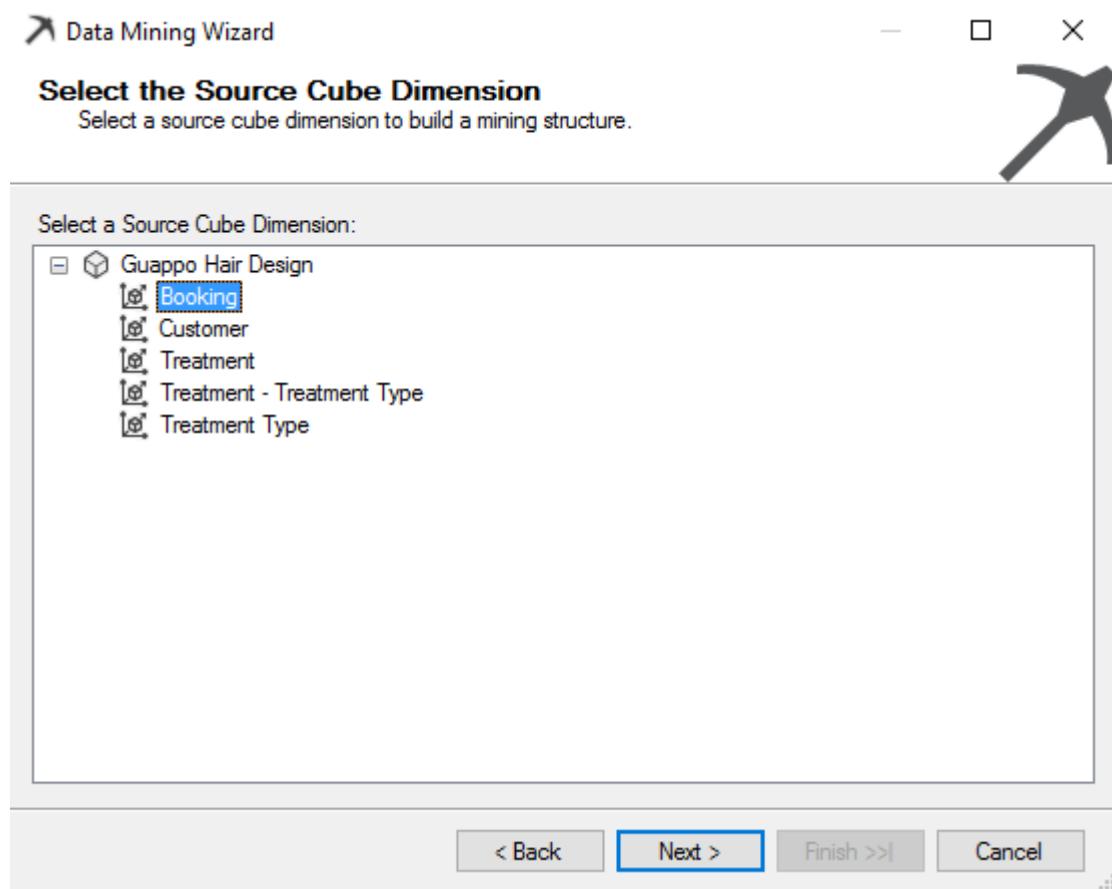
5.3.6.5 Data Mining technique

When selecting the data mining technique, choose Microsoft Decision Trees.



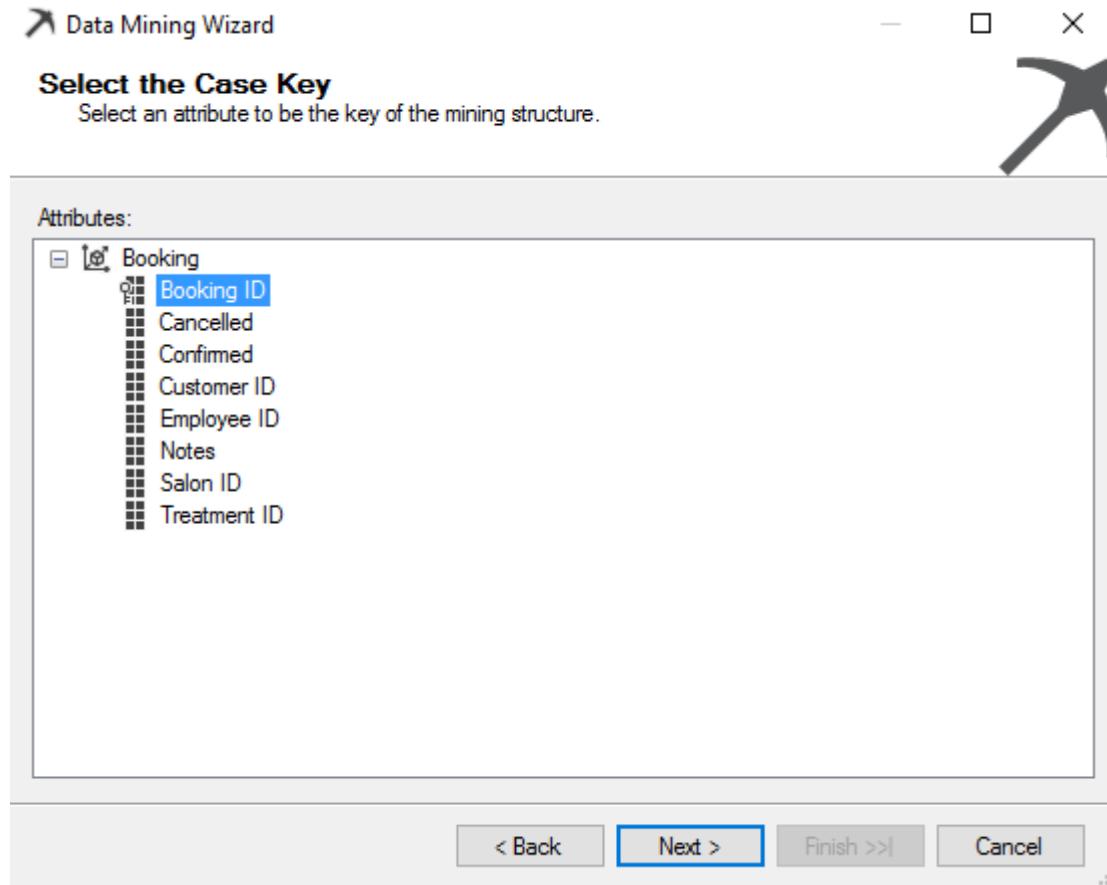
5.3.6.6 Selecting Cube Dimensions

From the List, select a source cube dimension. In this instance I have chosen Booking, click next.



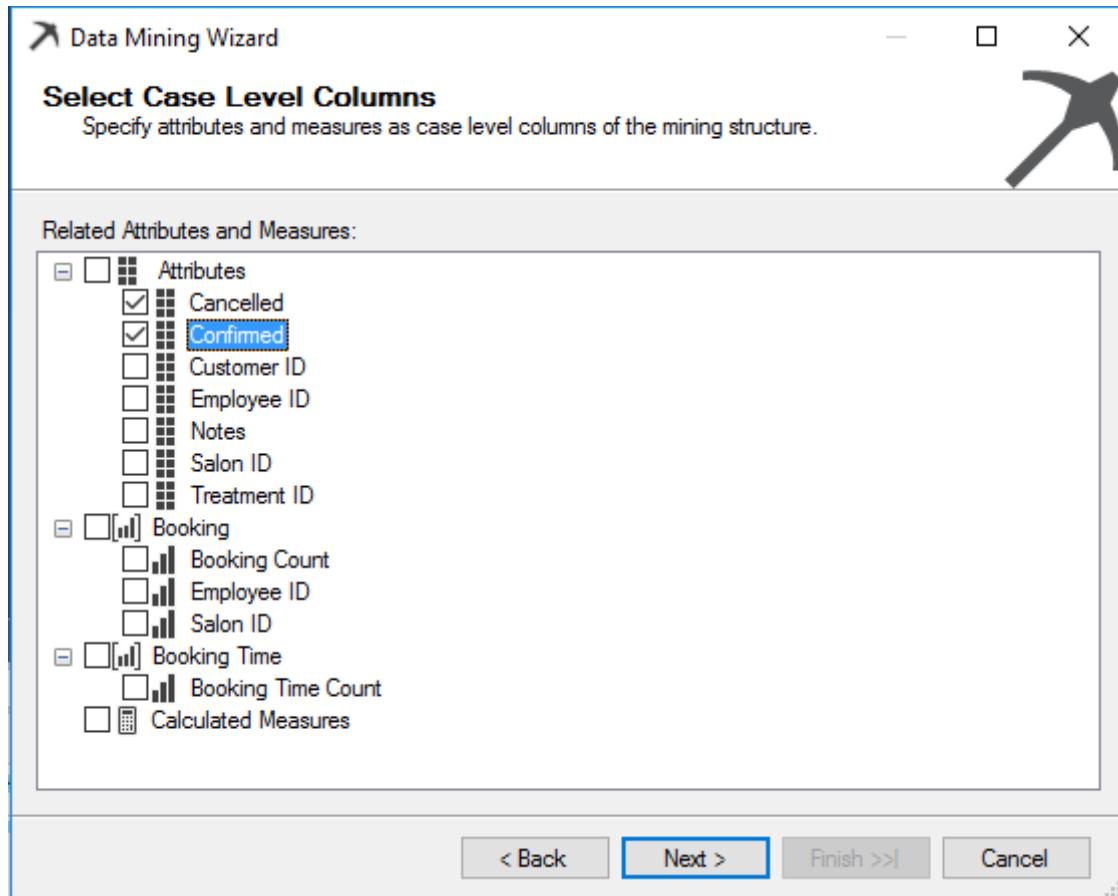
5.3.6.7 Selecting an attribute

From this list, select an attribute for the mining structure. I have selected BookingID, click next.



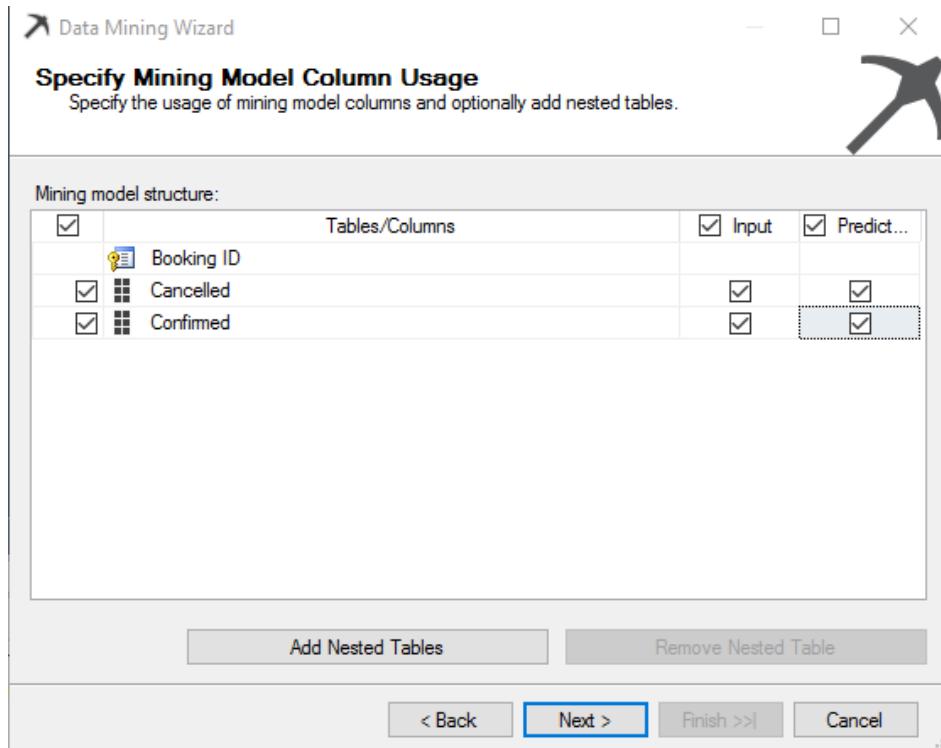
5.3.6.8 Selecting Attributes and Measures

From this list, select the attributes and measures for the mining structure, click next.



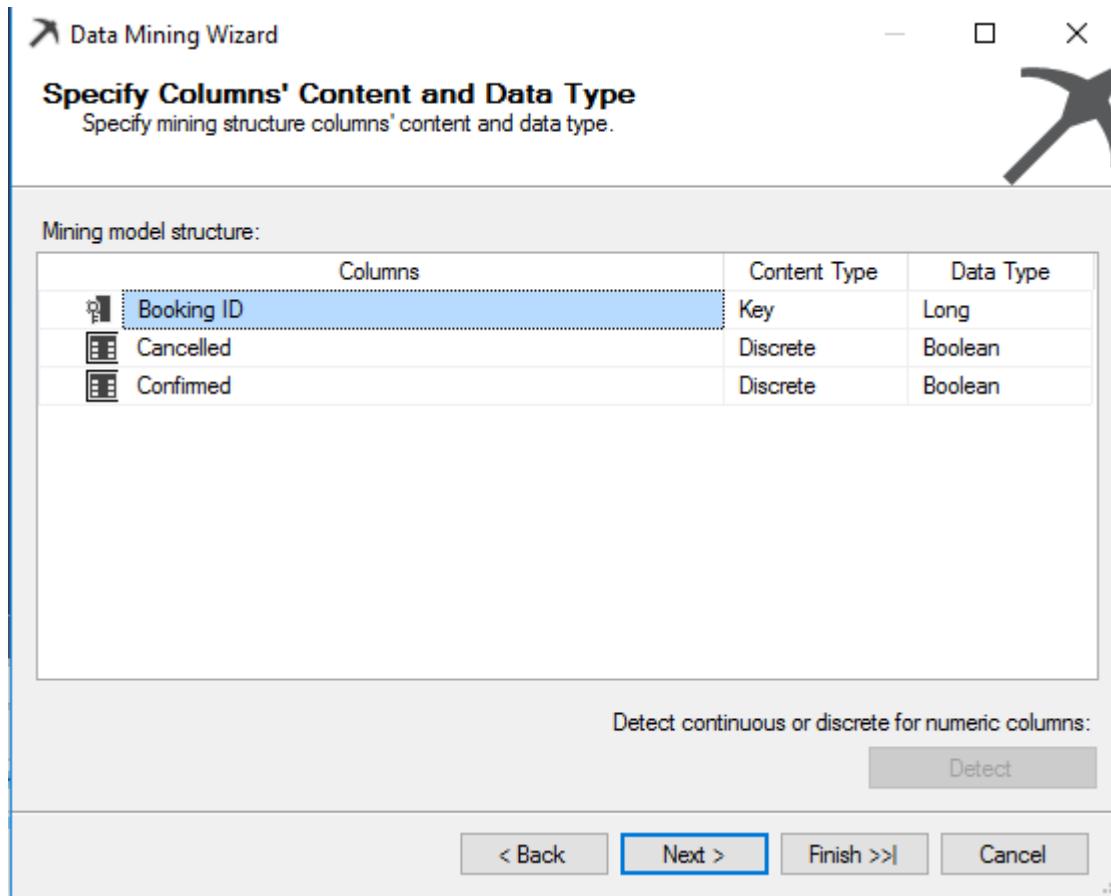
5.3.6.9 Inputs and predictions

From this list, select the inputs and predictions you want. Click next.



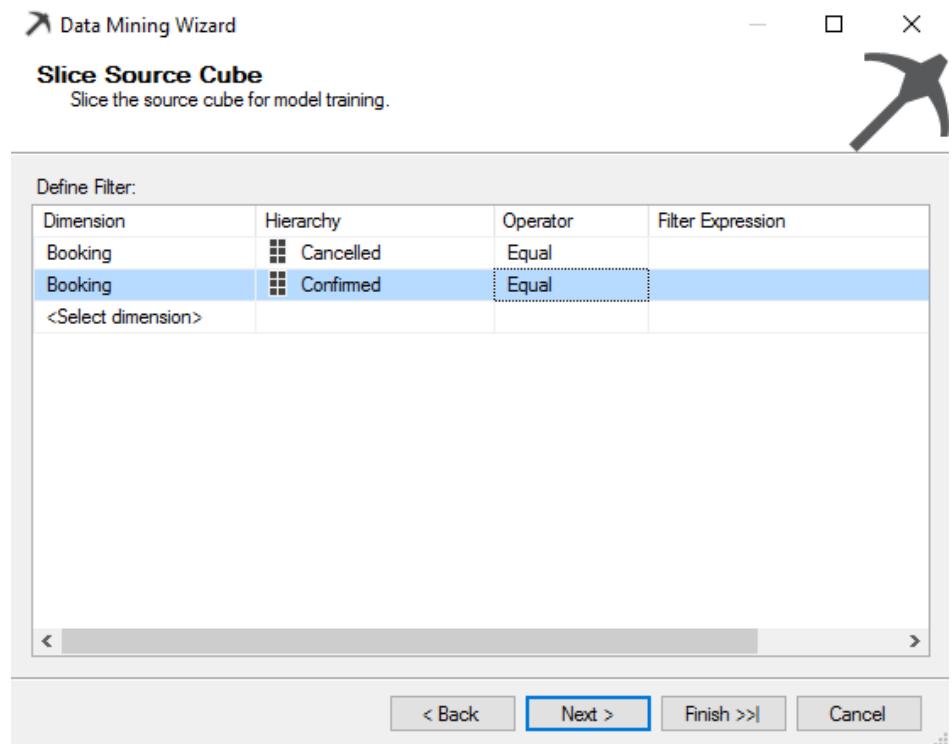
5.3.6.10 Content and Data Type

Make sure the both the content and data types are correct, click next.



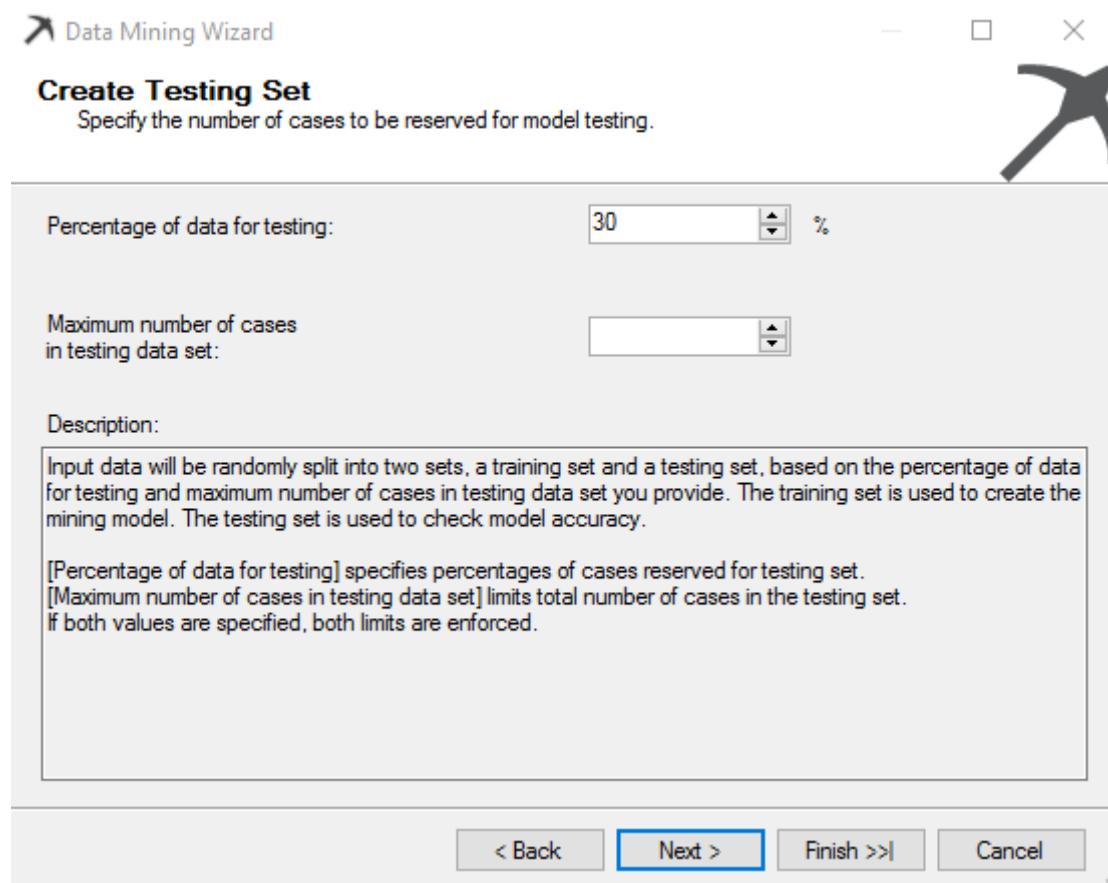
5.3.6.11 setting the dimensions

Set the Dimensions on the structure you previously created, click next.



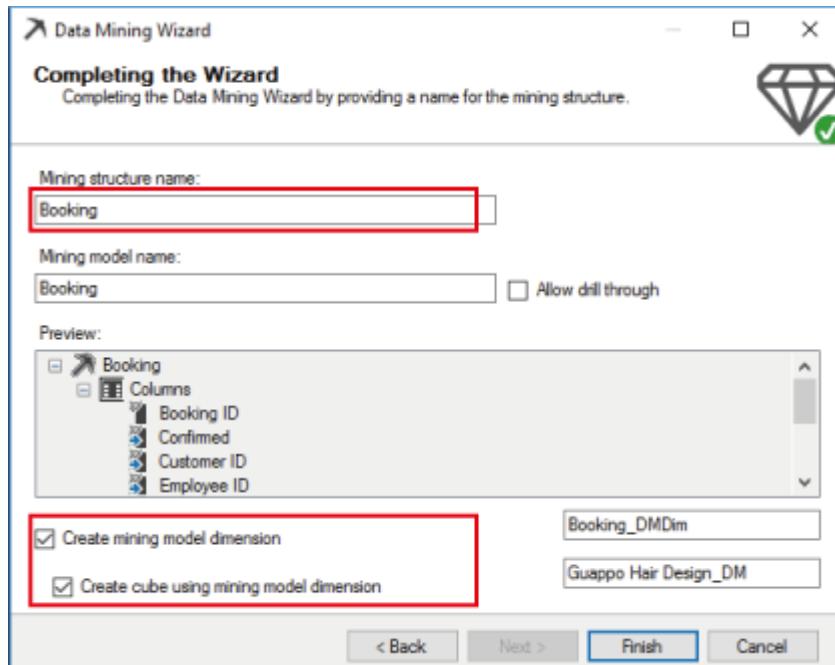
5.3.6.12 Creating a Testing Set

Leave the 'Percentage of data for testing' as default, which should be 30%, click next.



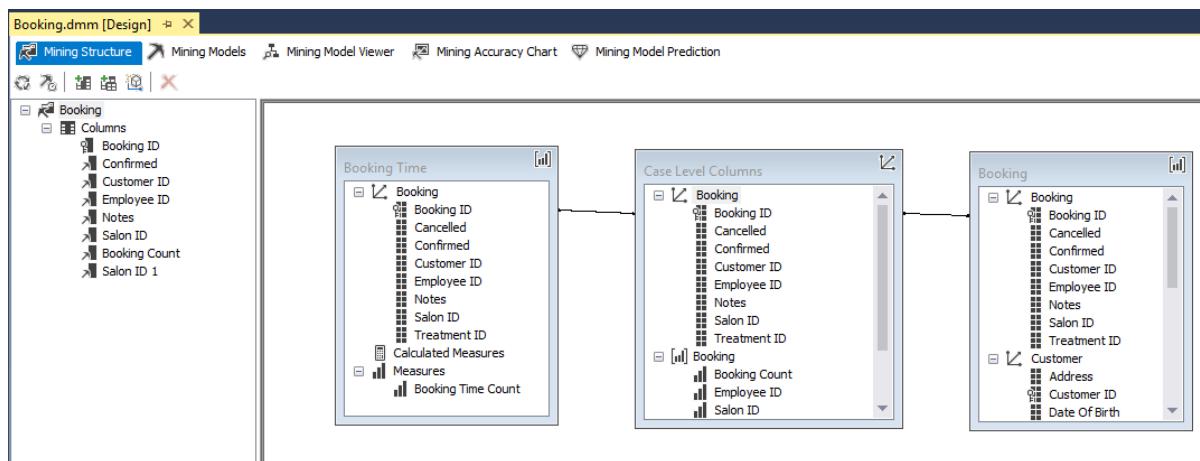
5.3.6.13 Appropriate Mining Name

Make sure to give your structure an appropriate name, I've left mine as Booking. Make sure to check the two boxes at the bottom. These will create a model dimension and create a cube using the dimension, click finish.



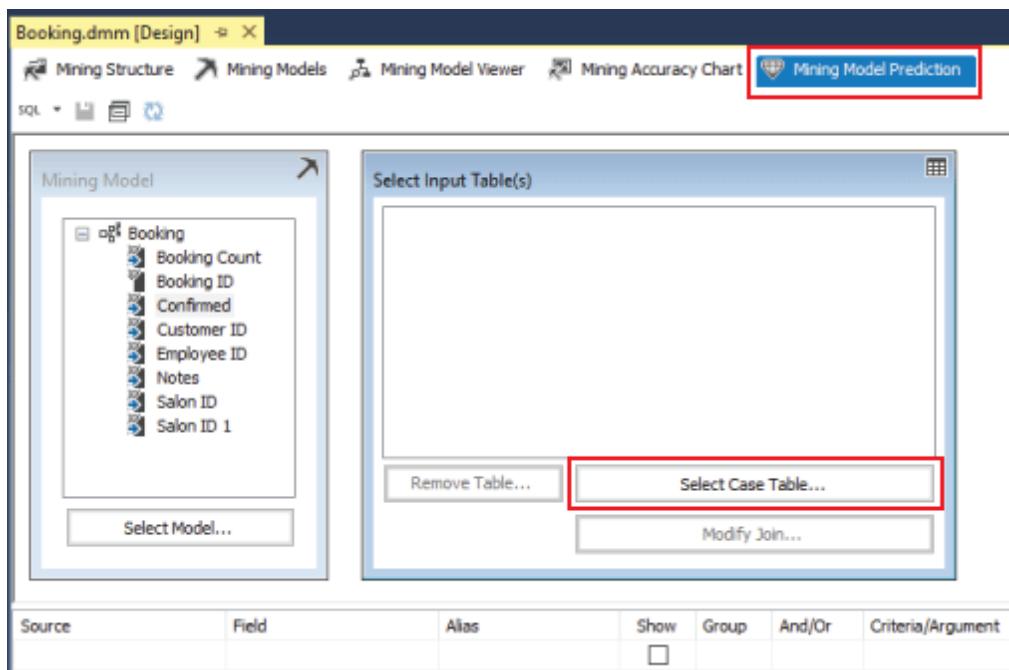
5.3.6.14 Structure

After you clicked finished you should be greeted with your mining structure.



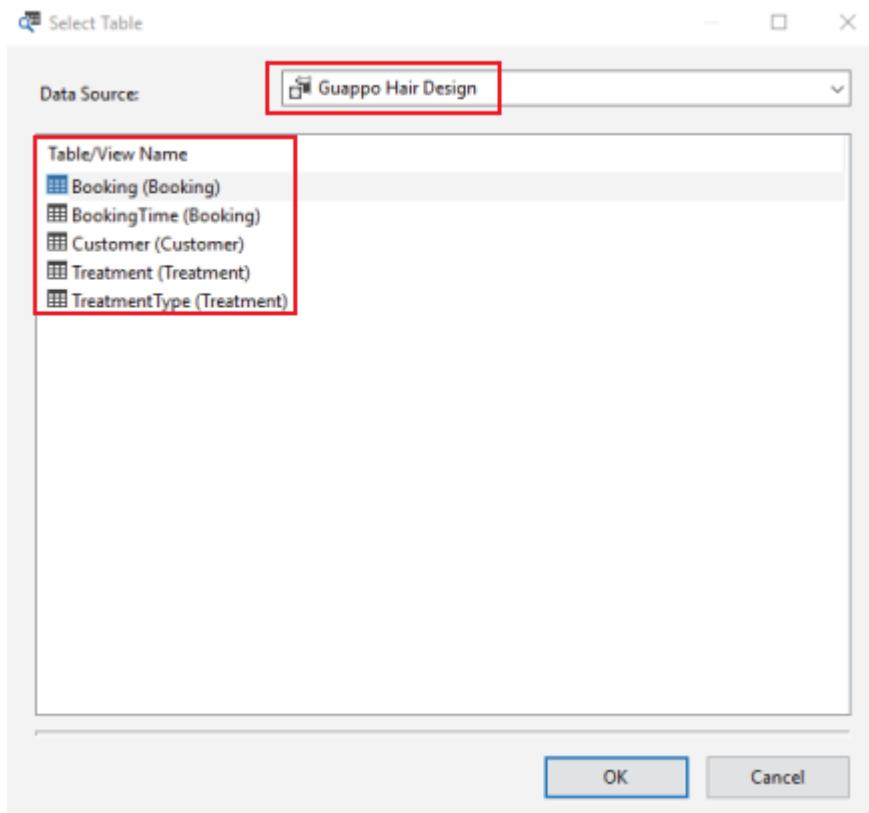
5.3.6.15 Model Prediction

Within the Design Window click 'Mining Model Prediction' and click 'Select Case Table'.

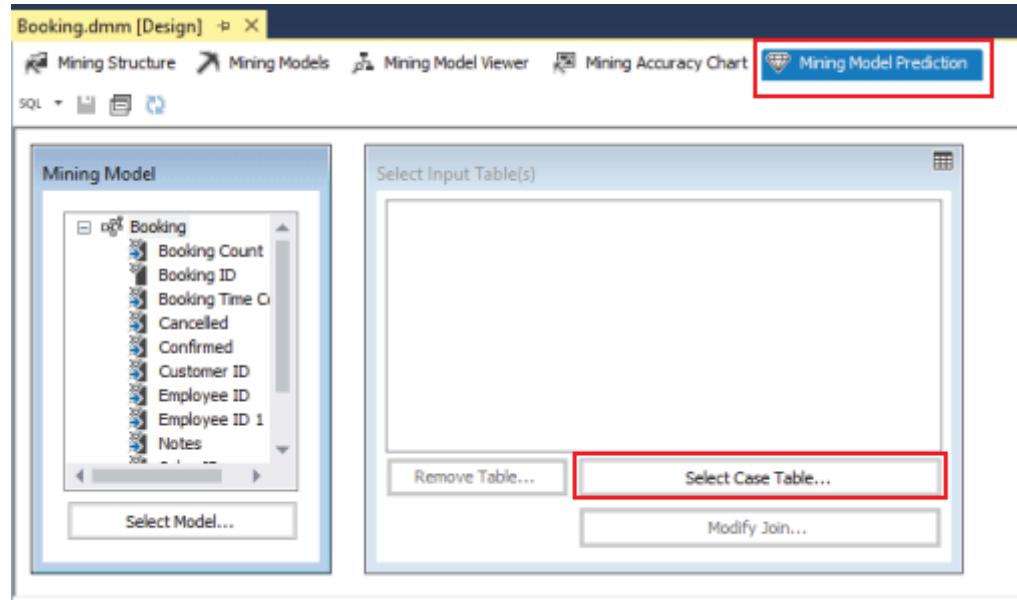


5.3.6.16 Table Selection

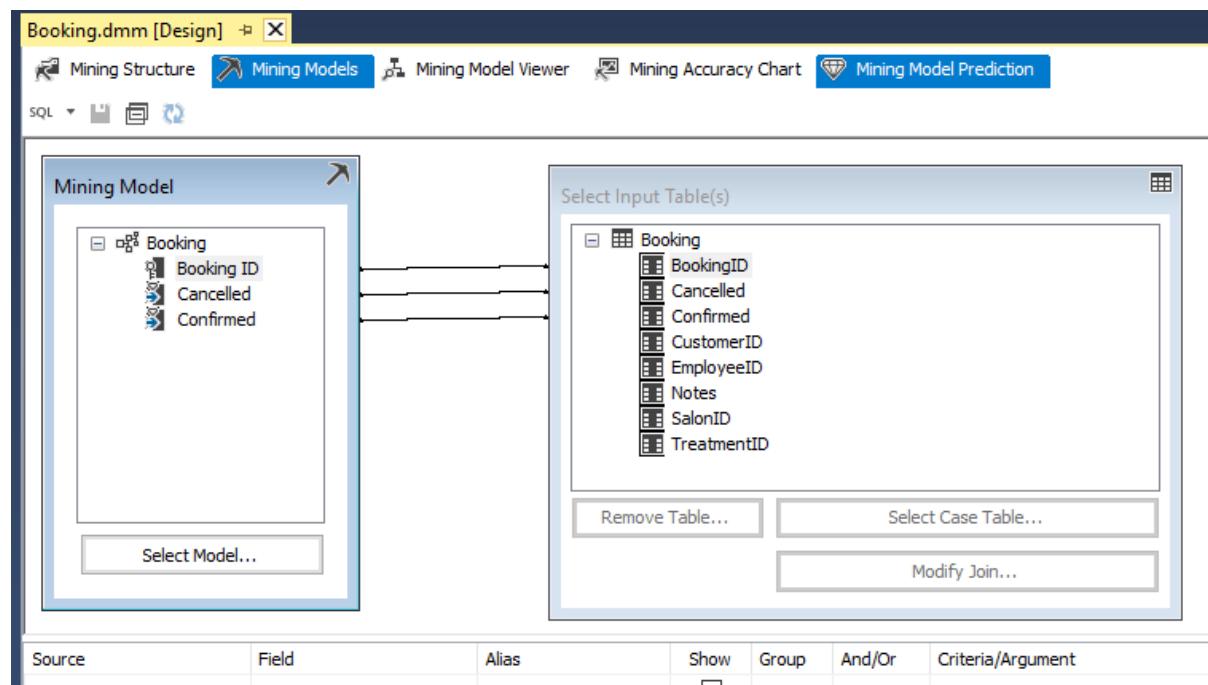
Within the table selection window, make sure you have the correct data source selected and select the relevant table. In this example it is the Booking table.



5.3.6.17 Mining Model Prediction

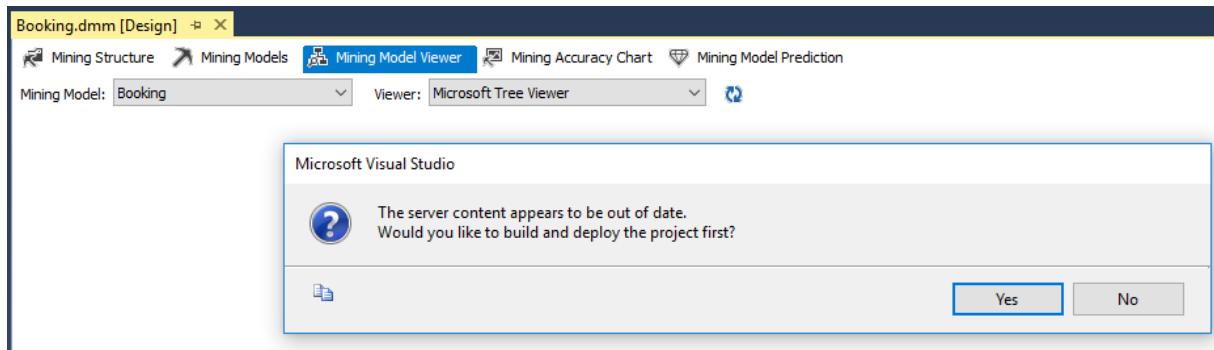
Within the Design pane, click 'Mining Model Prediction' and click 'Select Case Table...'.


5.3.6.18 Mining Model Prediction

Make sure the correct data types are connected from either side.


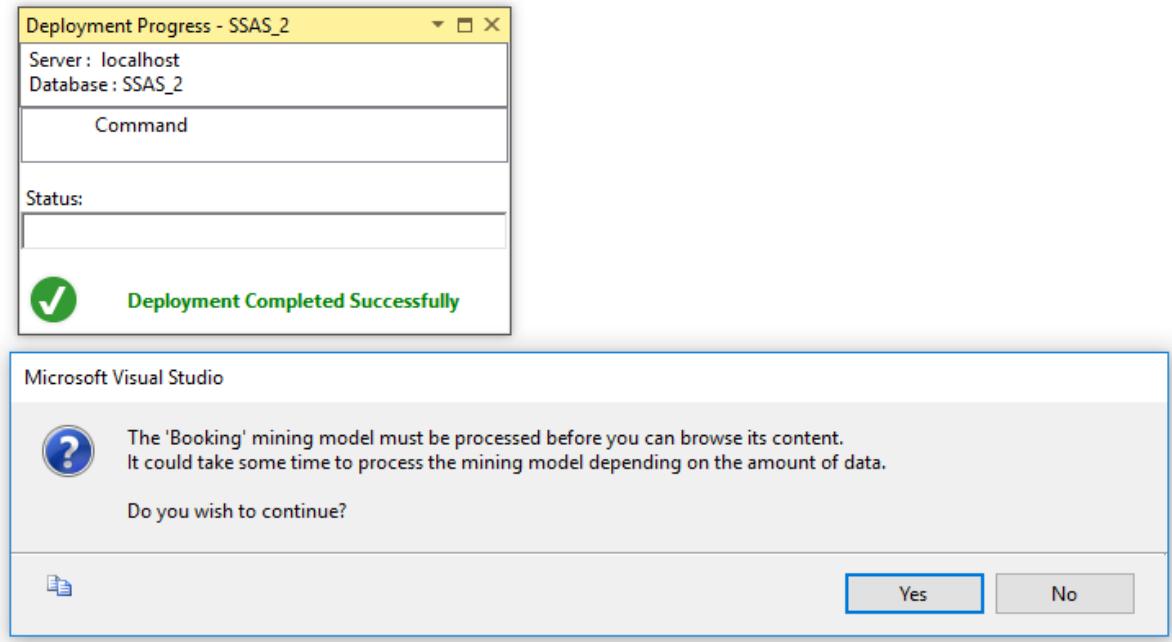
5.3.6.19 Deploying

Click on the Mining Model Viewer and you will be greeted with a message regarding deployment, click yes, this will deploy the project.



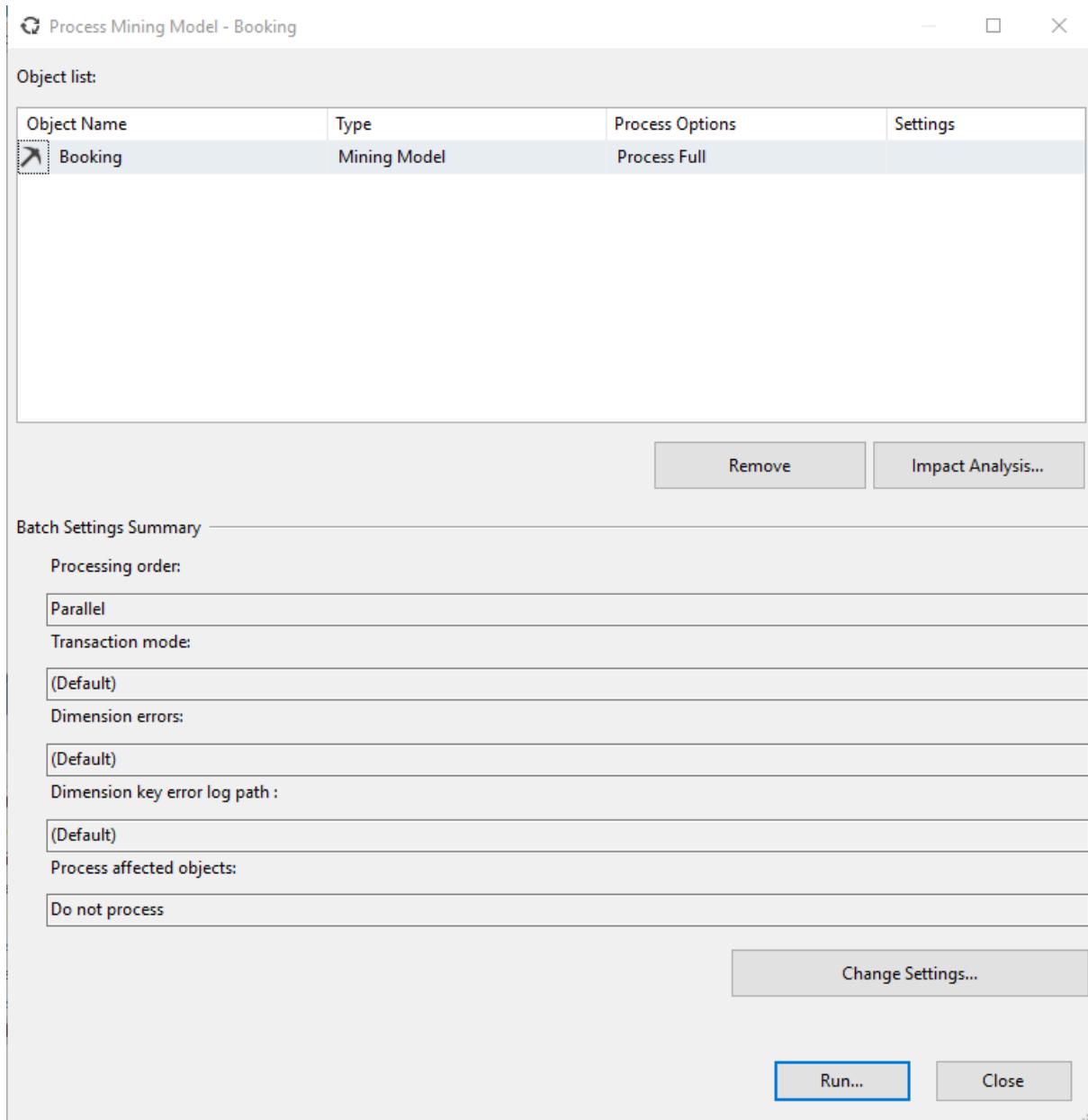
5.3.6.20 Deployment Success Message

If your deployment is successful you may encounter the following message, click yes.



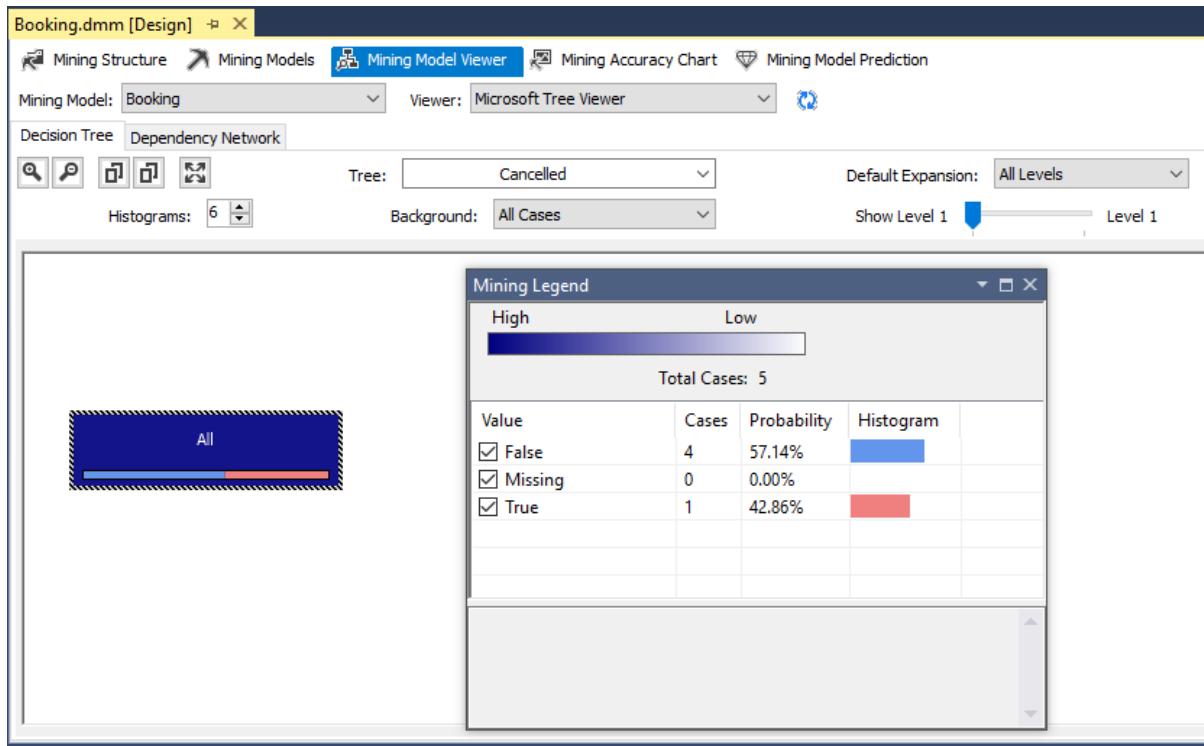
5.3.6.21 Run

Click Run.



5.3.6.22 Output

As I only created a little data mining structure, the output is little. It is a one bar chart graph. The data Mining legend then looks at the values and the probability that something will happen, in this case it's whether Customers are going to cancel or confirm their booking.



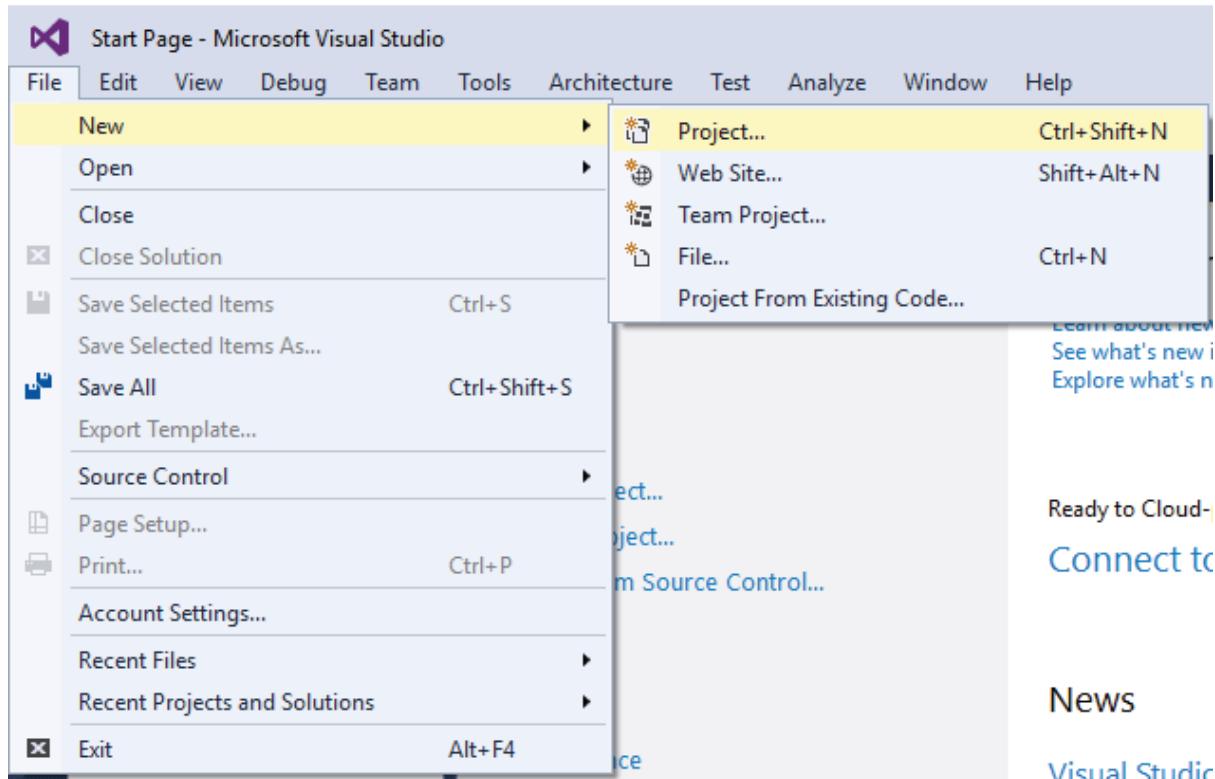
5.4 ASP.NET MVC Web Application

In this Section I will be creating a MVC (Models, Views, Controllers) Web Application and knitting it in with my database.

5.4.1 Creating a new MVC Project

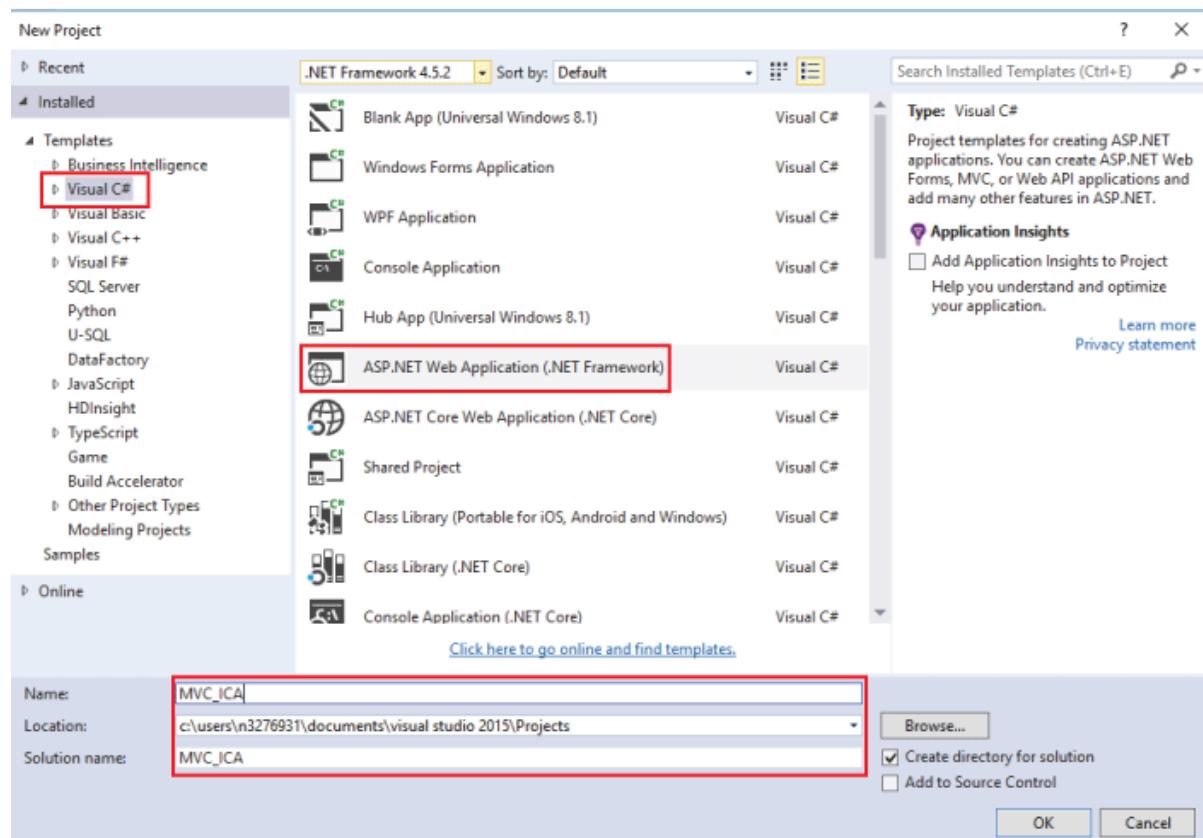
5.4.1.1 New Project

Open Visual Studio, click new > project.



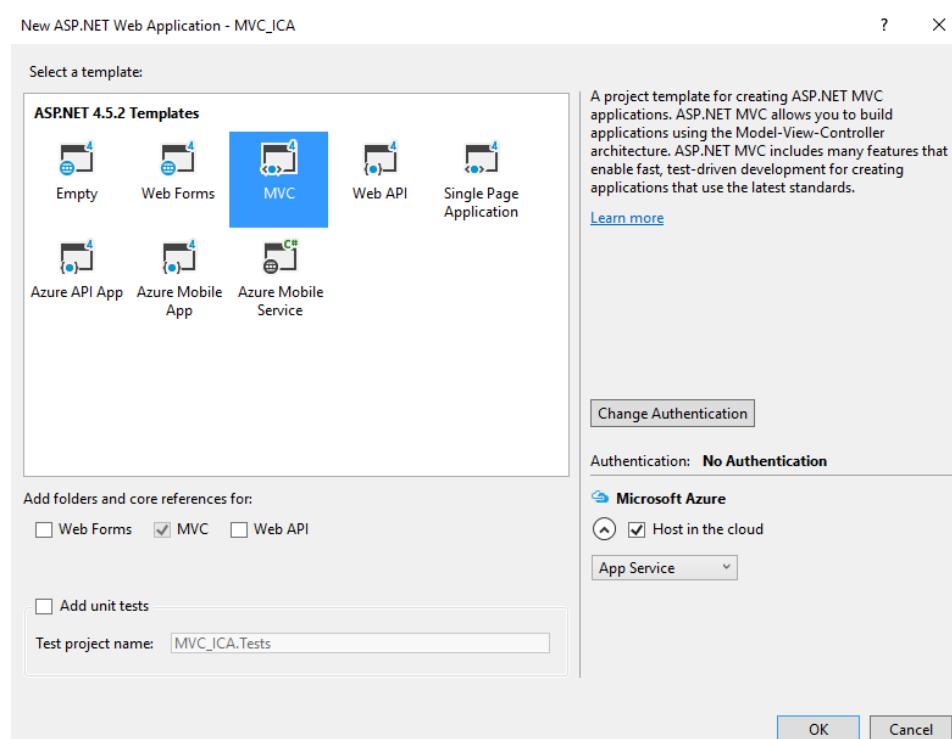
5.4.1.2 ASP.NET Web App

From the templates sections select ‘Visual C#’ and choose ‘ASP.NET Web Application (.NET Framework)’. Name your application accordingly, click ok.



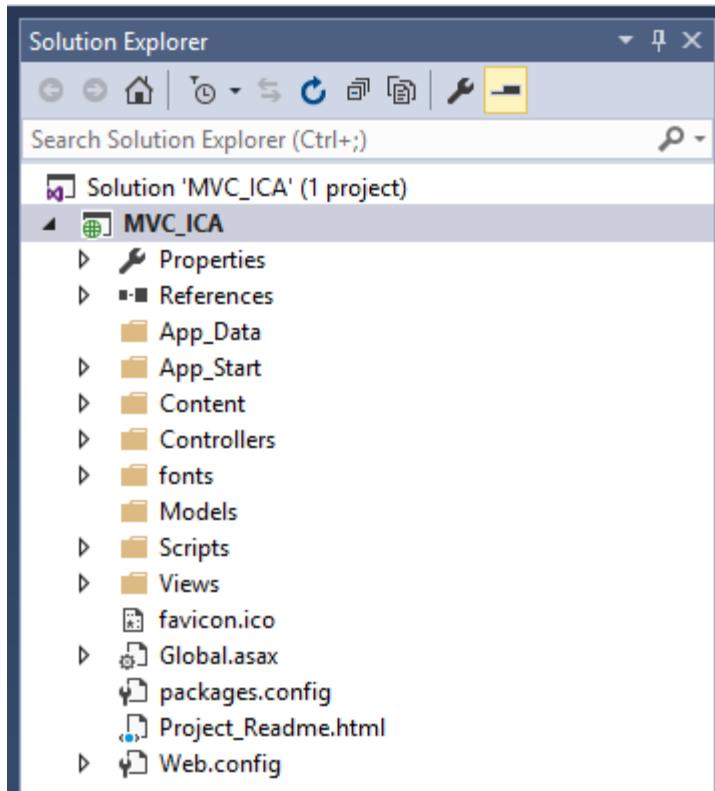
5.4.1.3 MVC

Select MVC, click next.



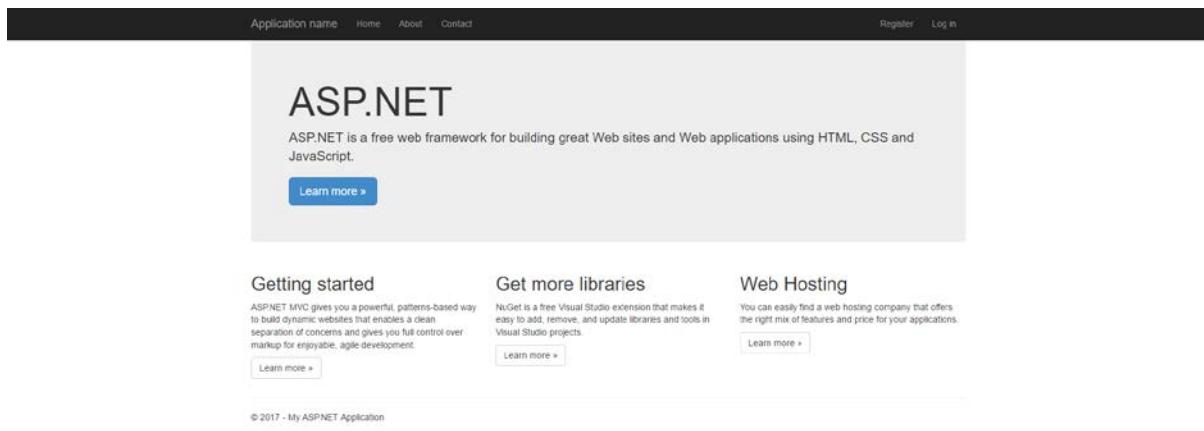
5.4.1.4 Project Created

In the Solution explorer, your project should now be created.



5.4.1.5 Run

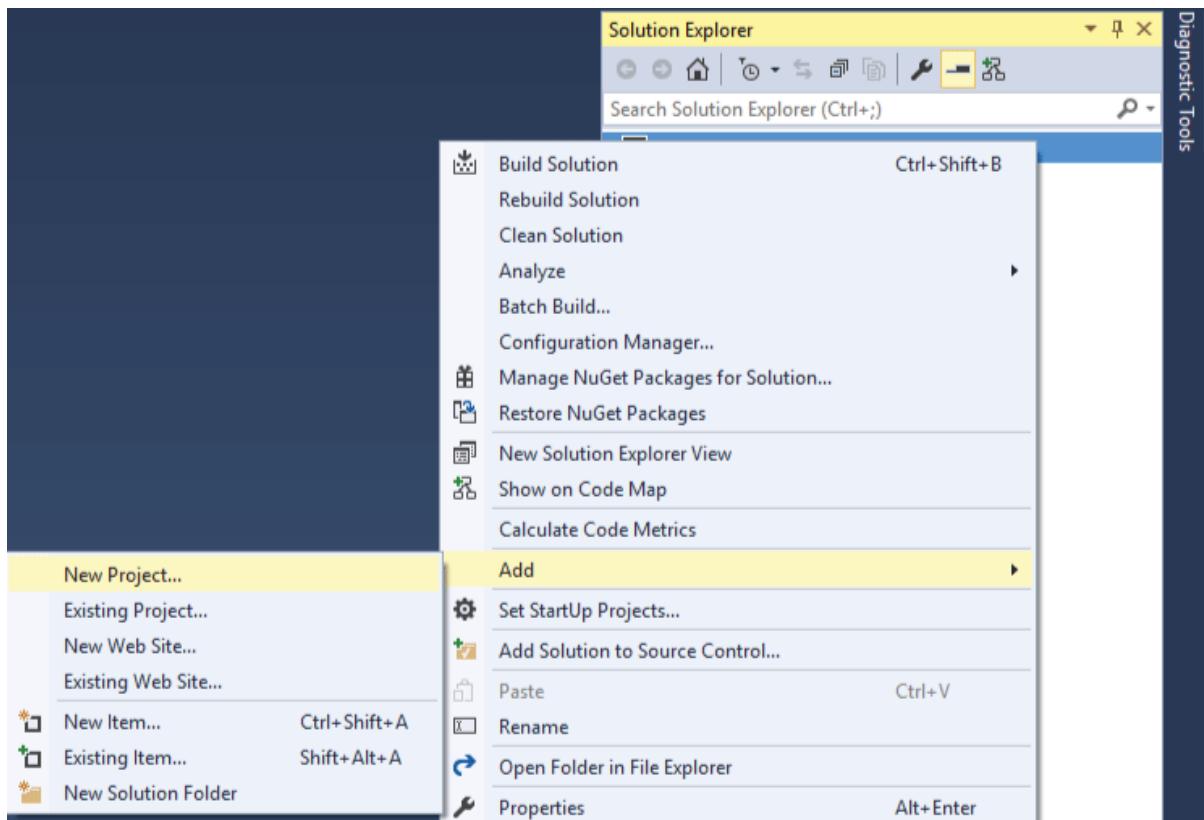
If you run your project, you will have the default ASP.NET Web page. (Press F5 to run).



5.4.2 Creating an Entity Framework Model

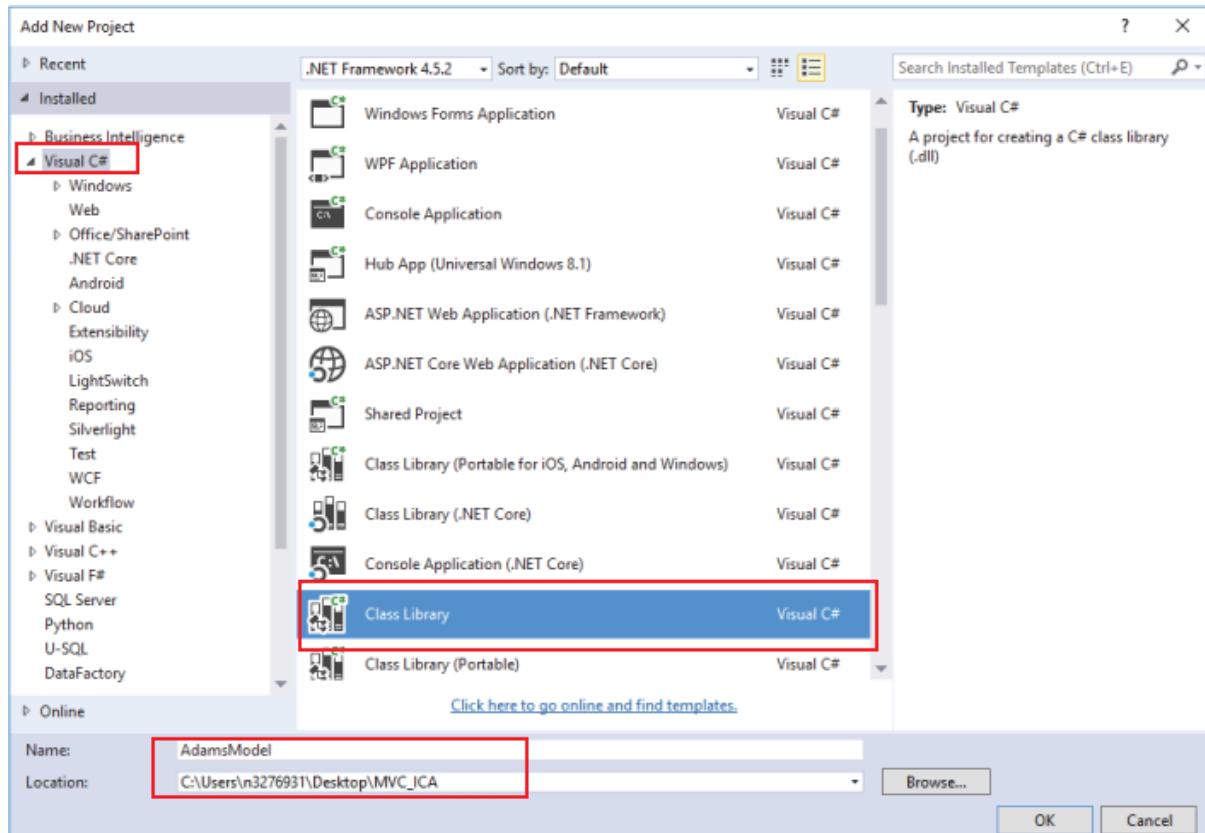
5.4.2.1 Creating the Model

On the project right hand mouse click and select add > new project.



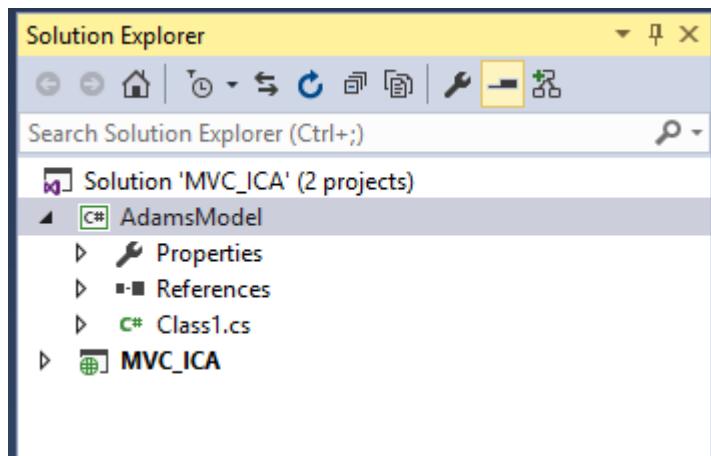
5.4.2.2 Creating the Model

In the templates section select ‘Visual C#’ and choose ‘Class Library’. Name the Model accordingly and click ok.



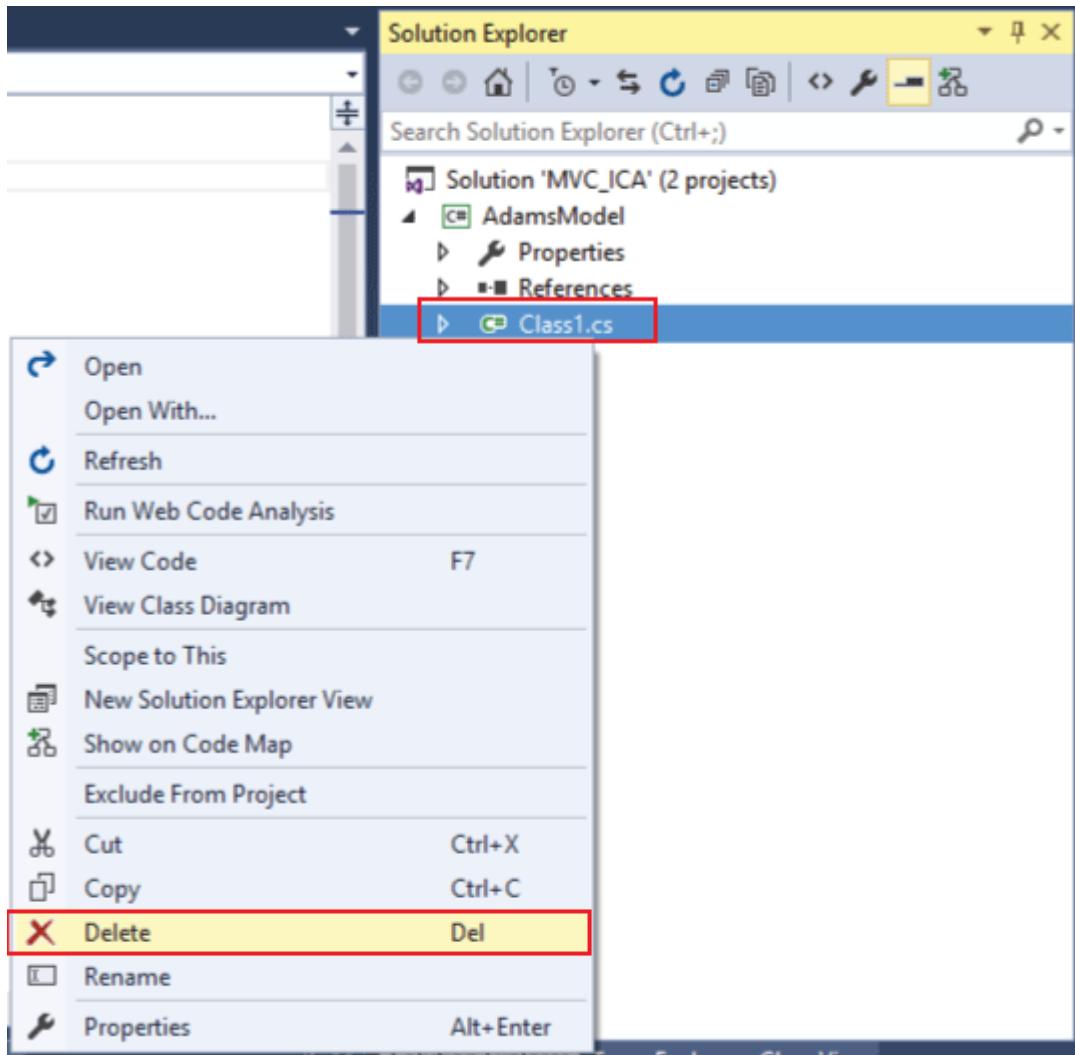
5.4.2.3 Empty Class Library

Within the Solution Explorer your empty class library should be created.



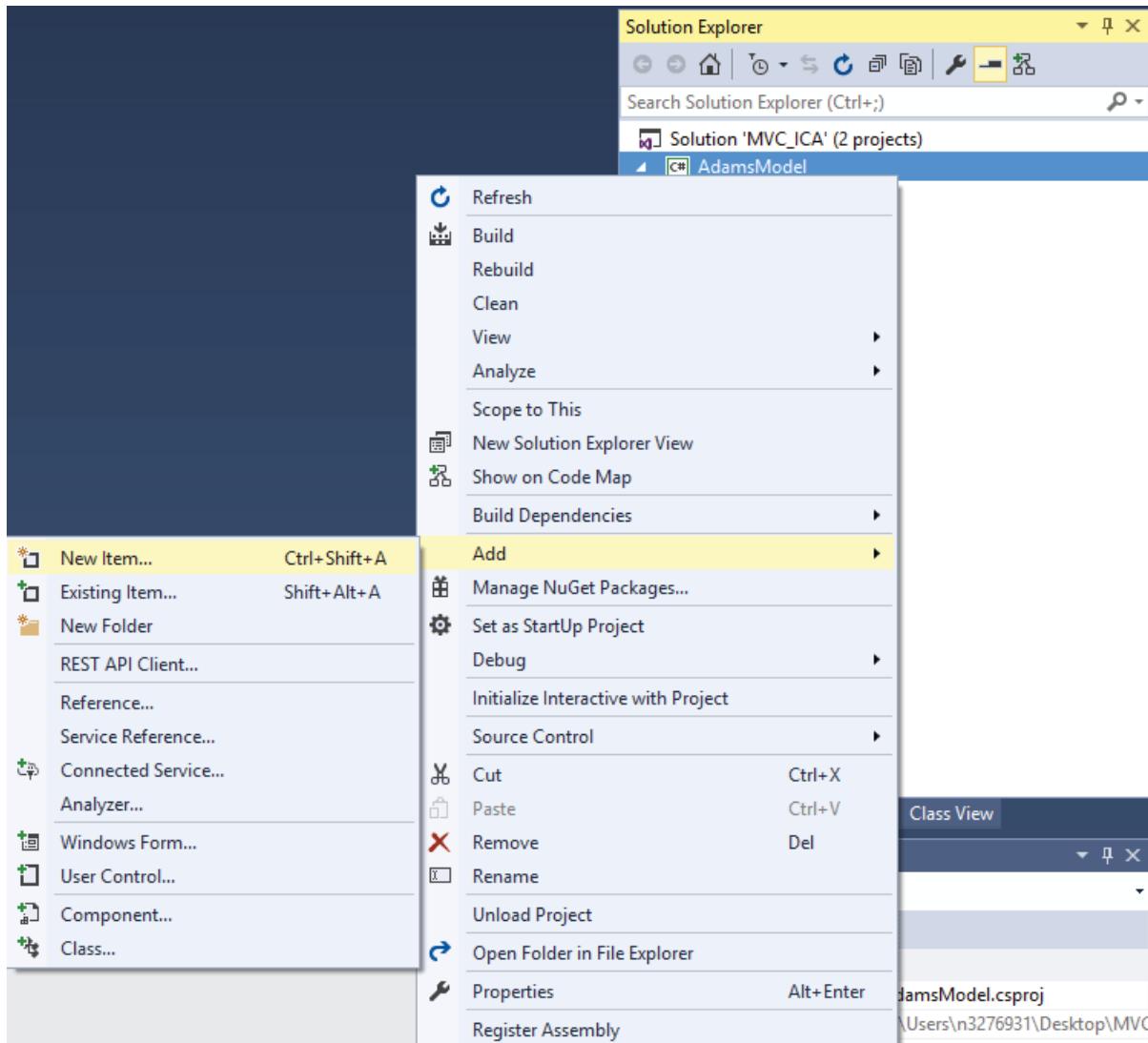
5.4.2.4 Class1.cs

You can delete Class1.cs as it is redundant. To do that right click it and select delete.



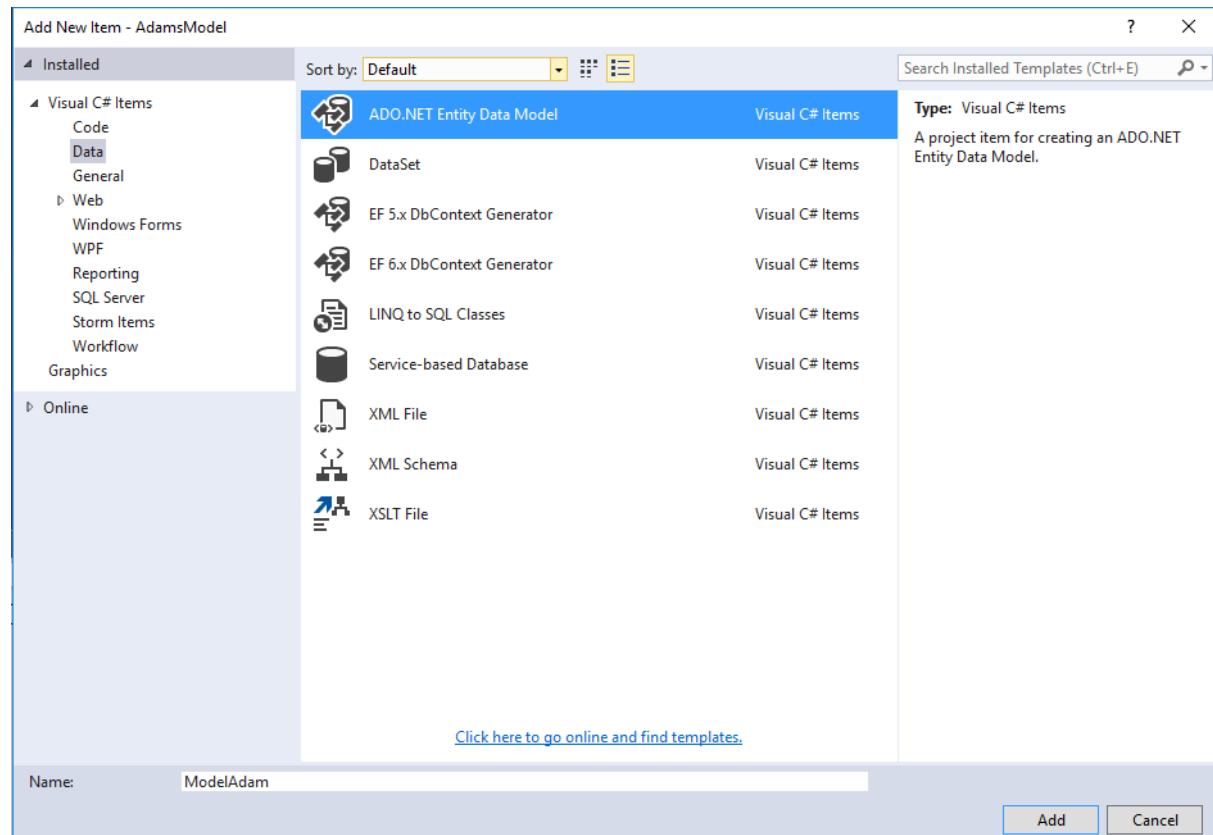
5.4.2.5 Add New Item

Right click the newly added Class Library and select add > New Item.



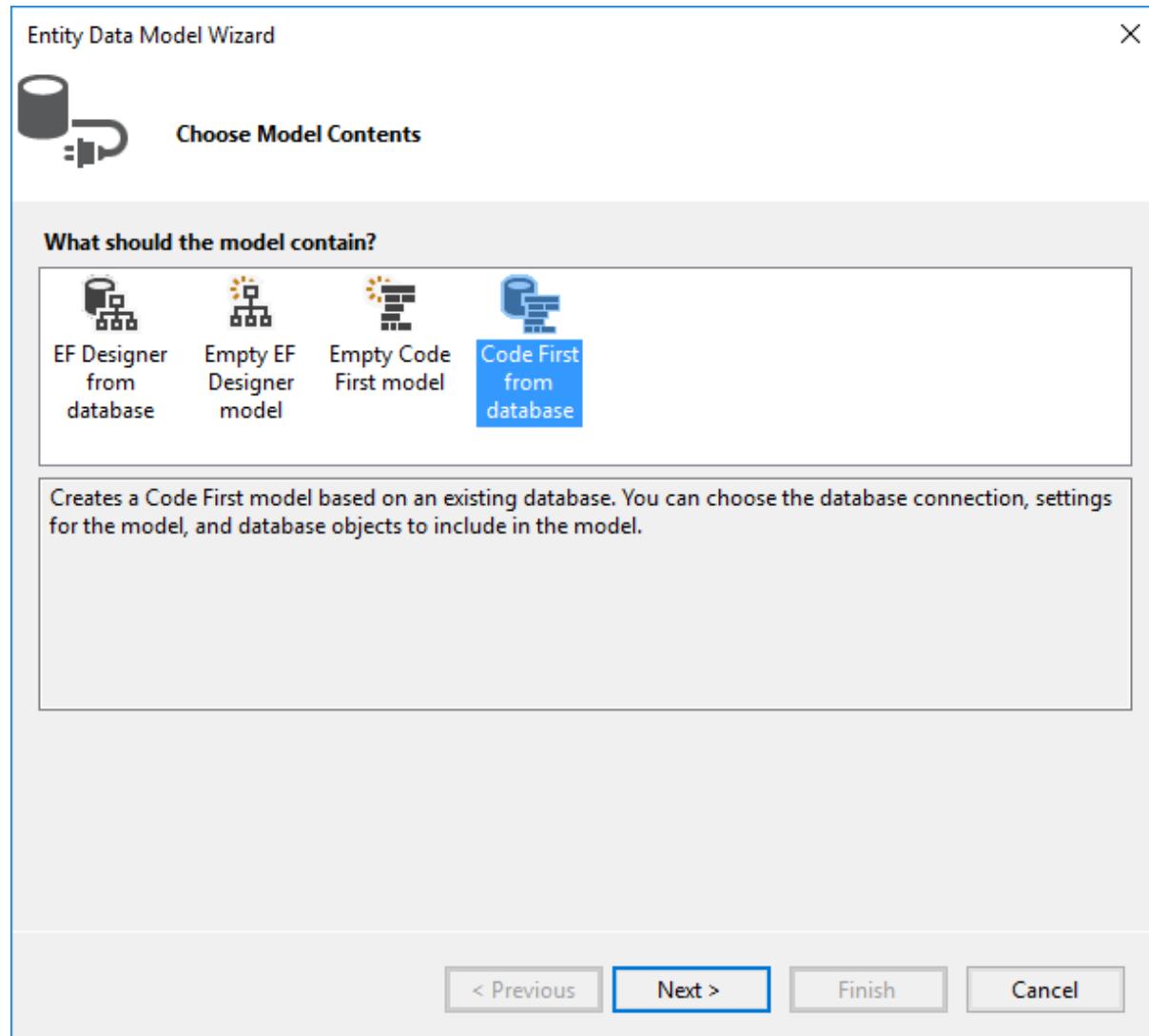
5.4.2.6 ADO.NET Entity Model

Within the Visual C# Items Select 'Data' and chose 'ADO.NET Entity Data Model', name it accordingly and click add.



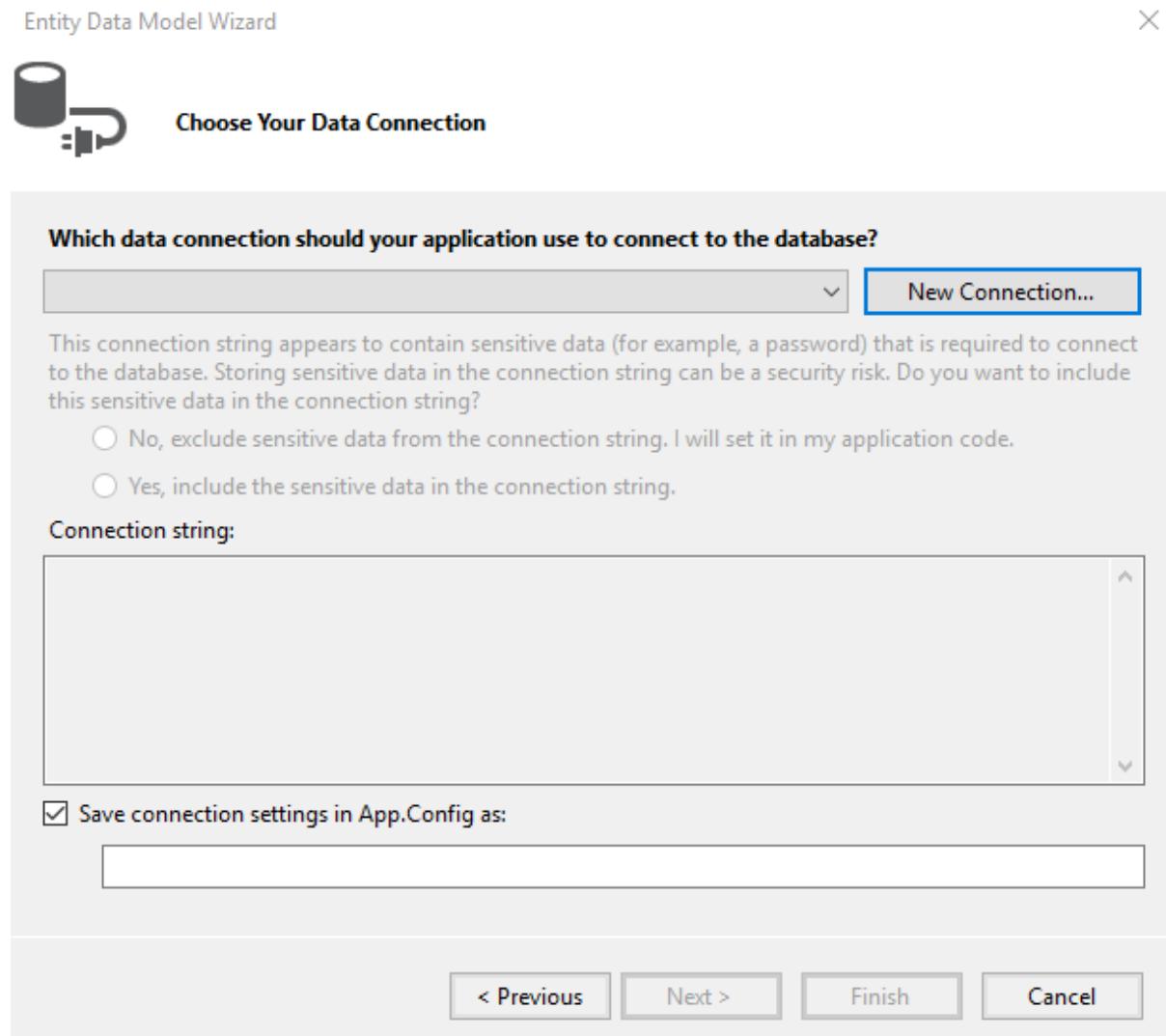
5.4.2.7 CFED Model

Select 'Code First from Existing Database'. We chose this one as we have already created the database, visual studio then creates the code based on that.



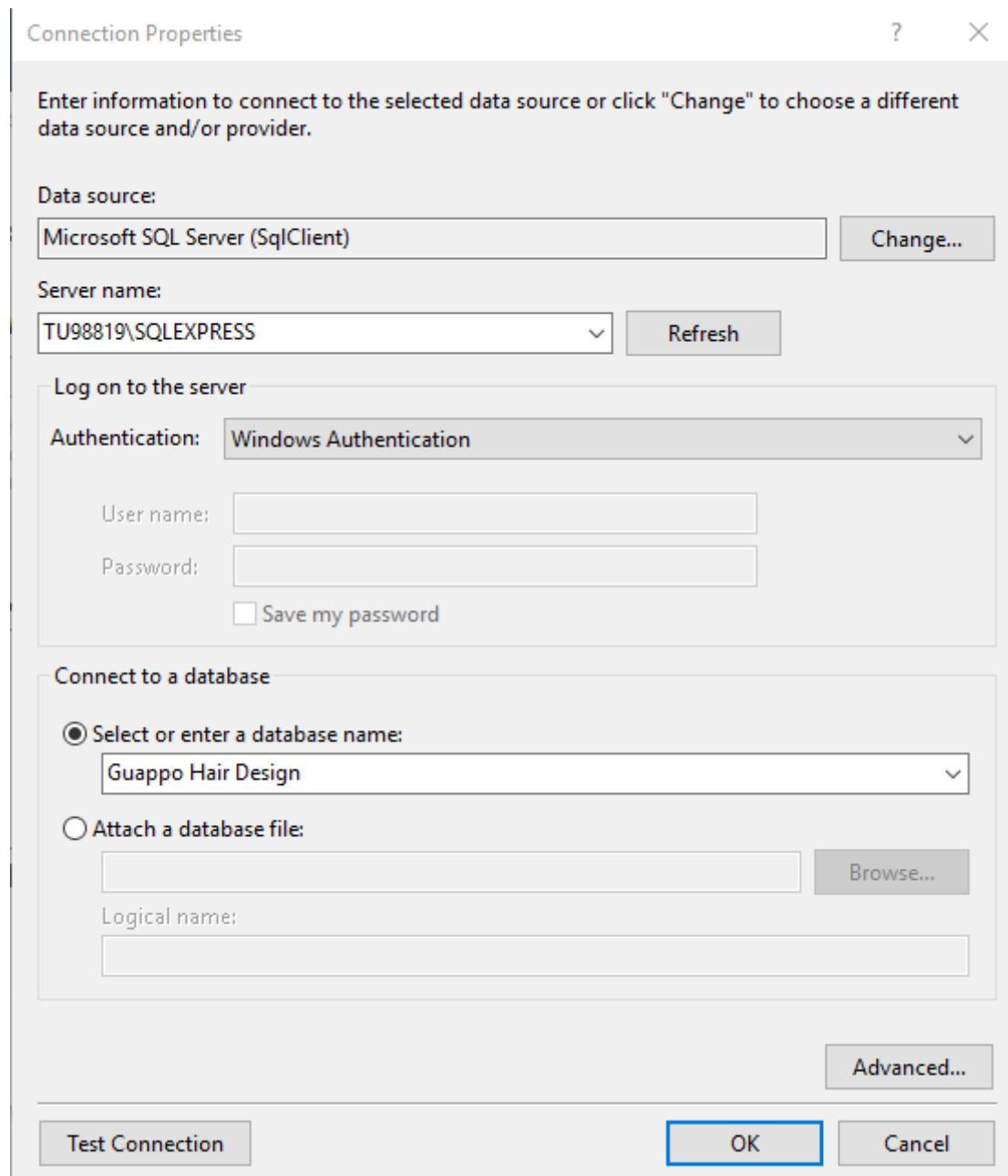
5.4.2.8 Connection

Click New Connection.



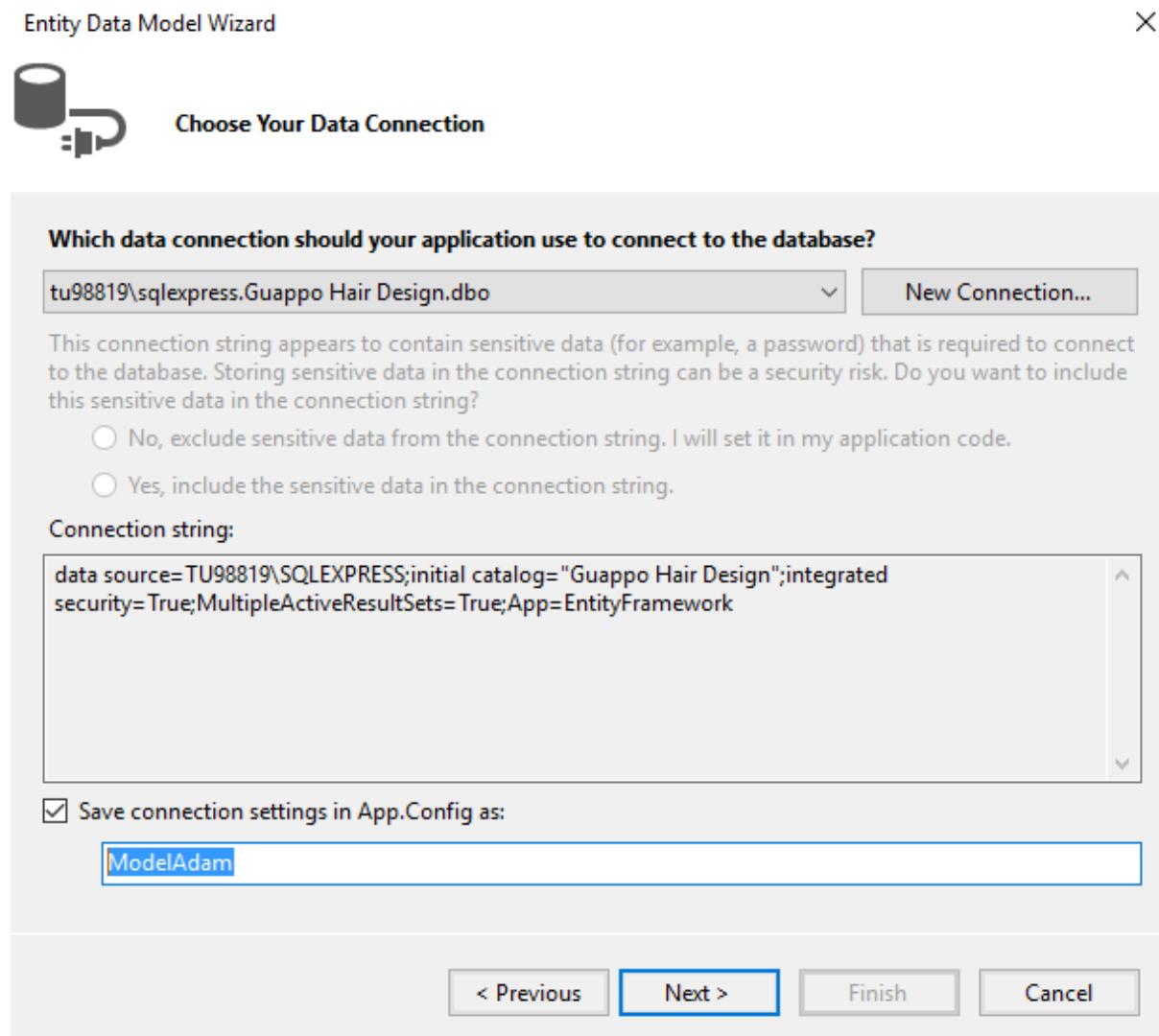
5.4.2.9 Data Source

Enter the Server Name and select your Database, click ok.



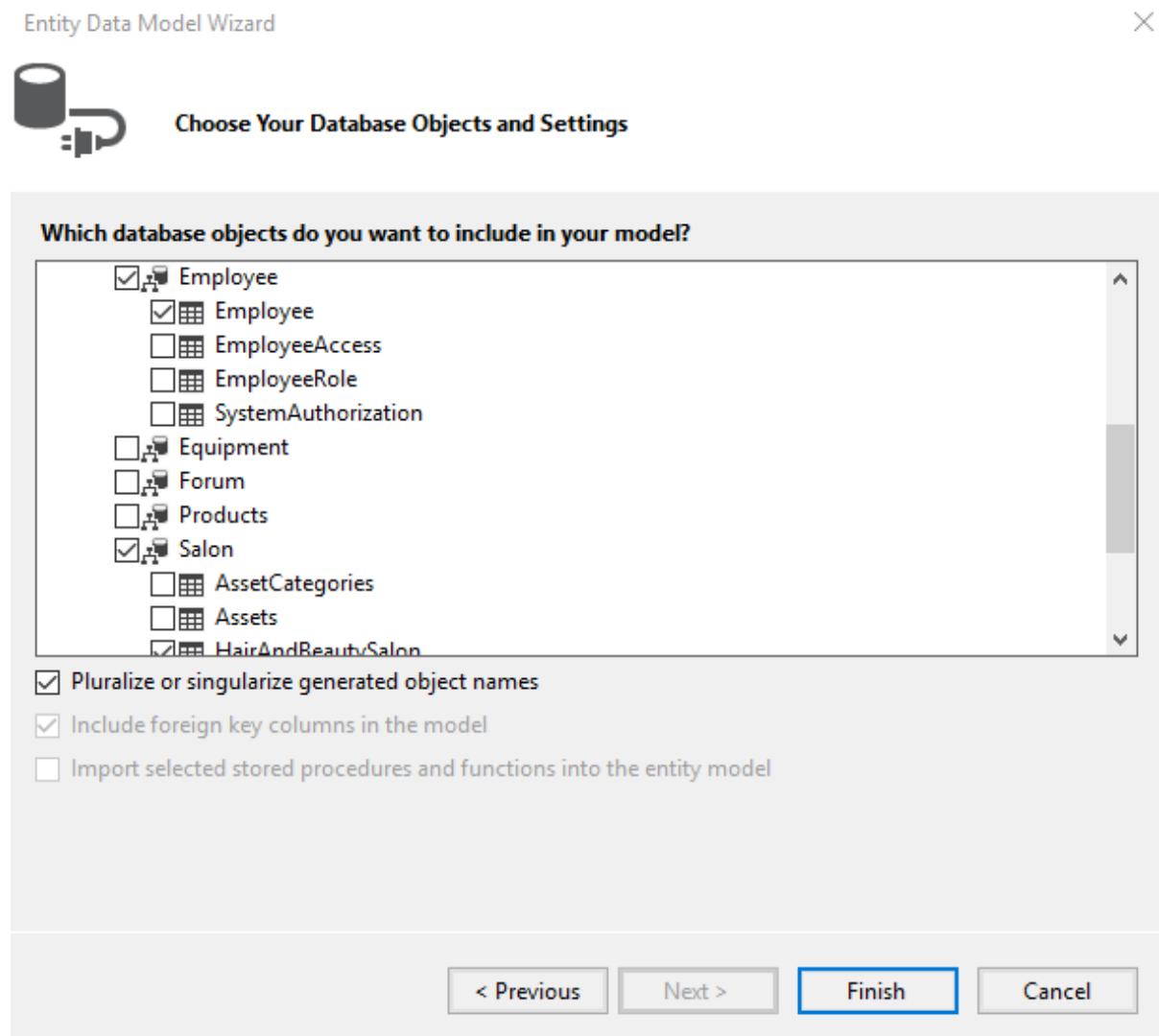
5.4.2.10 Connection String

A very important task is to name the connection string accordingly, this is effectively how we know our database by, click next.



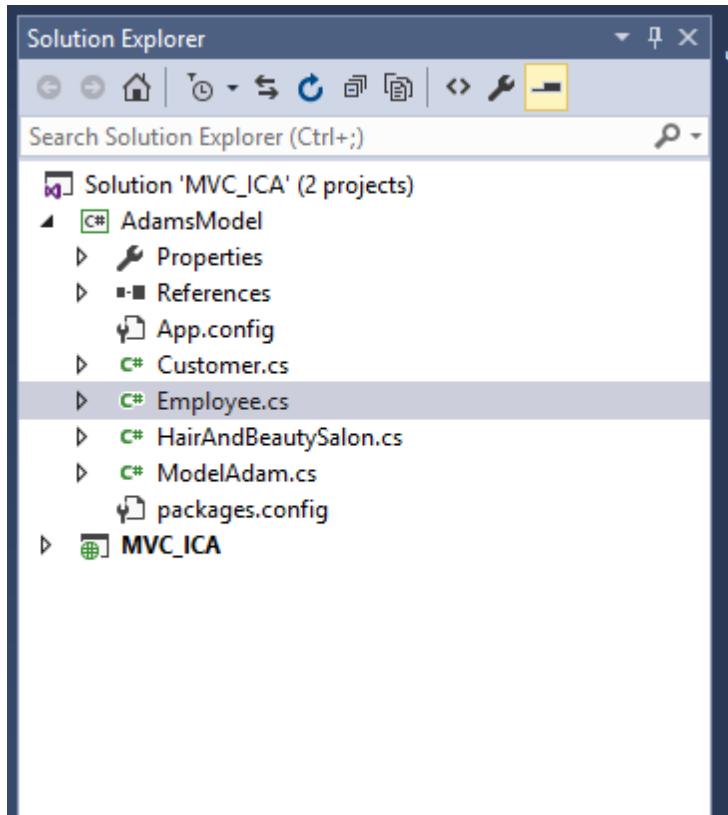
5.4.2.11 Table objects

Select the tables and views you want to make use of. As this is a simple demonstration I am not going to select all of the tables, only 3, they are Customer, Salon and Employee, click finish.



5.4.2.12 Created Classes

In the Solution Explorer you will now have a class for each of the tables you chose along with a Database context class.



5.4.2.13 Data within the classes

These creates classes will have the code for the database tables you chose. In this example I will be showing you the code created for the Employee.cs.

The screenshot shows the Microsoft Visual Studio interface with the following windows:

- Solution Explorer:** Shows the solution structure for "MVC_ICA" with projects "AdamsModel" and "HairAndBeautySalon".
- Properties Window:** Shows the properties for "Employee.cs" under the "Advanced" tab, with "Build Action" set to "Compile" and "Copy to Output Directory" set to "Do not copy".
- Code Editor:** Displays the "Employee.cs" file content, which is a partial class named "Employee" within the "AdamsModel" namespace. The class includes properties for EmployeeID, SalonID, EmployeeRoleID, First_Name, Last_Name, Username, Password, and a virtual navigation property "HairAndBeautySalon". Annotations like [Table("Employee.Employee")], [DatabaseGenerated(DatabaseGeneratedOption.None)], [Required], [StringLength(20)], and [DataType(DataType.Password)] are used on the properties.

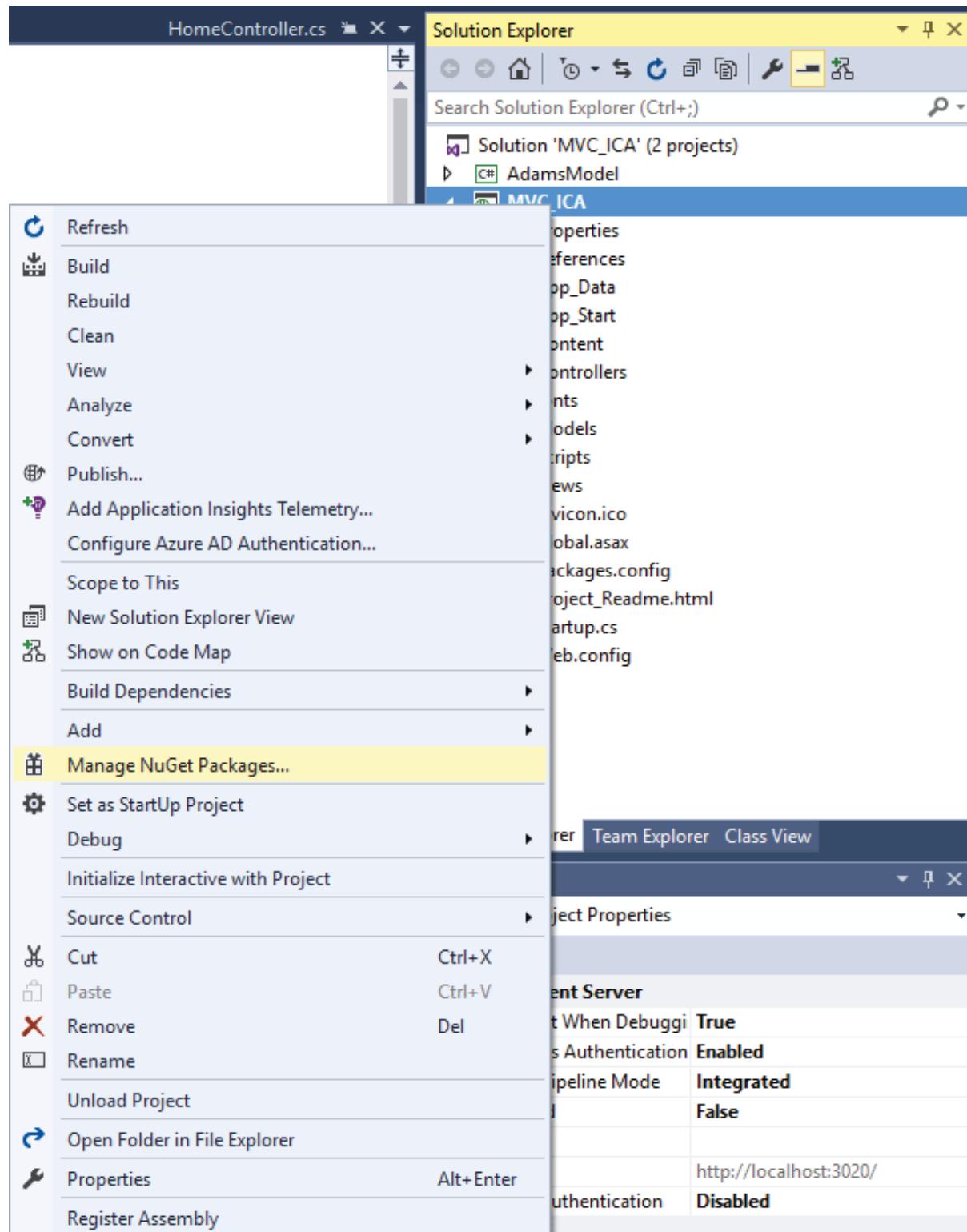
```
Employee.cs
1  namespace AdamsModel
2  {
3      using System;
4      using System.Collections.Generic;
5      using System.ComponentModel.DataAnnotations;
6      using System.ComponentModel.DataAnnotations.Schema;
7      using System.Data.Entity.Spatial;
8
9      [Table("Employee.Employee")]
10     public partial class Employee
11     {
12         [DatabaseGenerated(DatabaseGeneratedOption.None)]
13         [Required]
14         public int EmployeeID { get; set; }
15
16         [Required]
17         public int SalonID { get; set; }
18
19         [Required]
20         [References]
21         public string First_Name { get; set; }
22
23         [Required]
24         [References]
25         public string Last_Name { get; set; }
26
27         [Required]
28         [StringLength(20)]
29         [DataType(DataType.Password)]
30         public string Username { get; set; }
31
32         [Required]
33         [StringLength(20)]
34         [DataType(DataType.Password)]
35         public string Password { get; set; }
36
37         [References]
38         public virtual HairAndBeautySalon HairAndBeautySalon { get; set; }
39     }
40 }
```

5.4.3 Connecting the MVC app to the EF Model

This will enable the MVC application connect to the Entity Framework model.

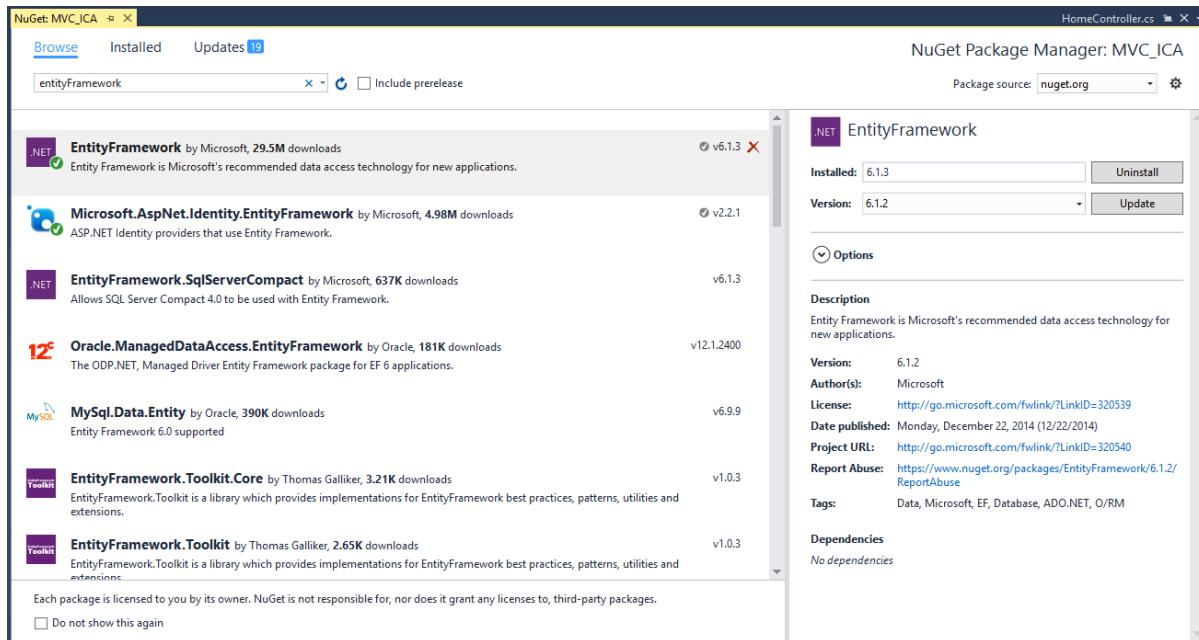
5.4.3.1 NuGet Packages

To add an Entity Framework package into our MVC project right click the project and click Manage NuGet Packages.



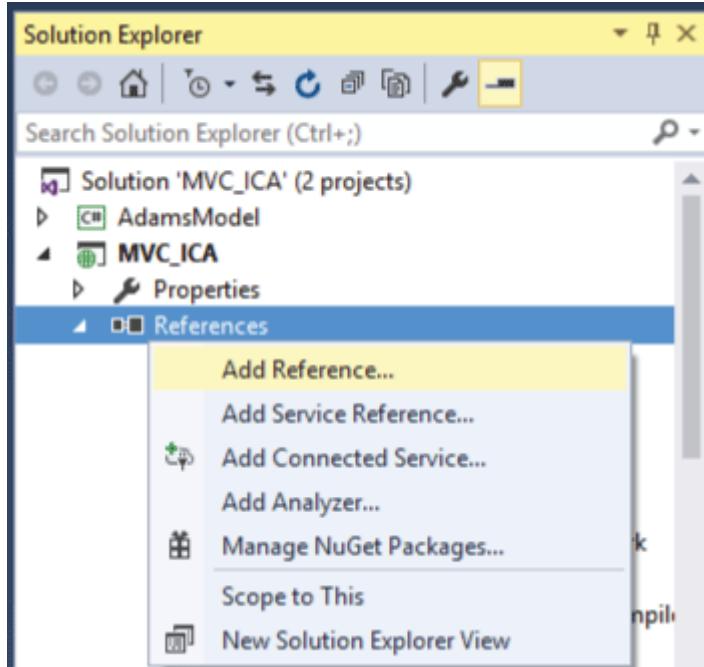
5.4.3.2 Install the package

Click browse and type 'EntityFramework' in the bar. Install the top option.



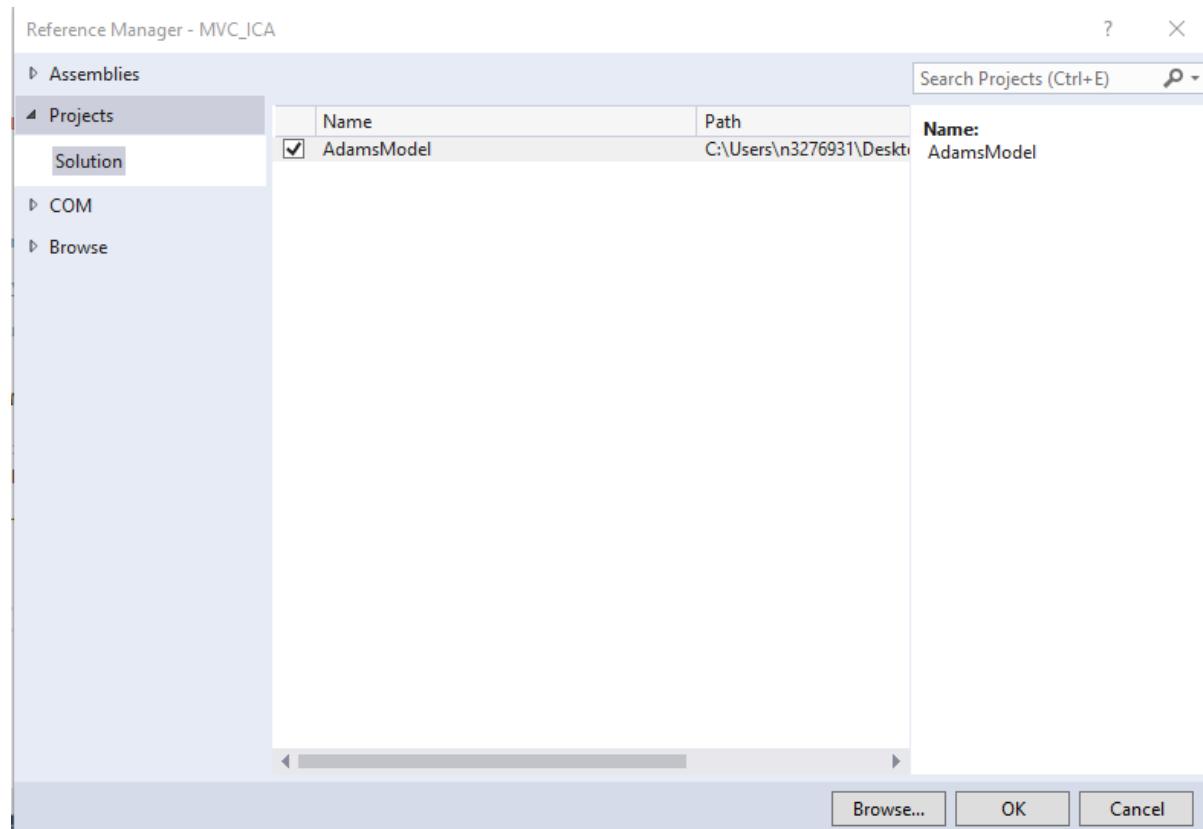
5.4.3.3 References

Within your MVC application click references, right hand mouse click and select 'add new reference'.



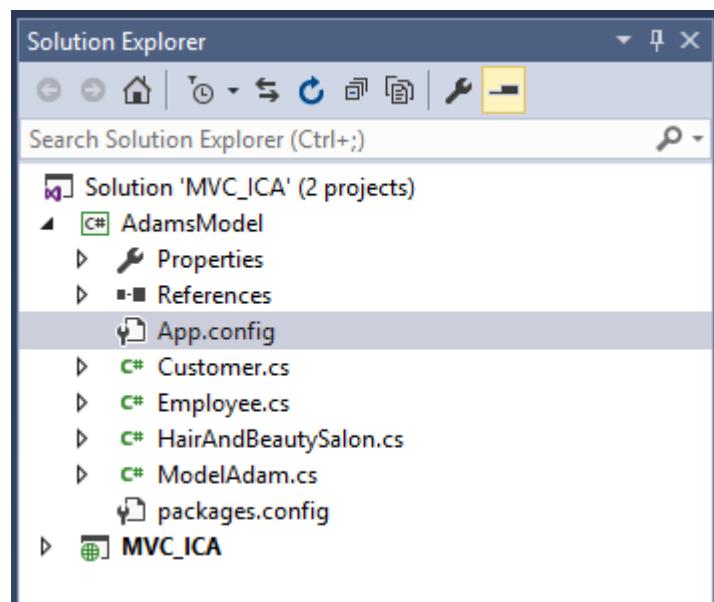
5.4.3.4 Selecting the Model

Click the Projects tab and select 'Solution'. Find the name of your model and make sure the box is checked, click ok. Your EF model will then appear in the references list.



5.4.3.5 Connection String

The next thing to do is to ensure that we have a copy of the connection string we created in the Entity Framework model in the MVC application. To do this double click App.config, find this in the Model selection of solution explorer.



5.4.3.6 Connection String Copy

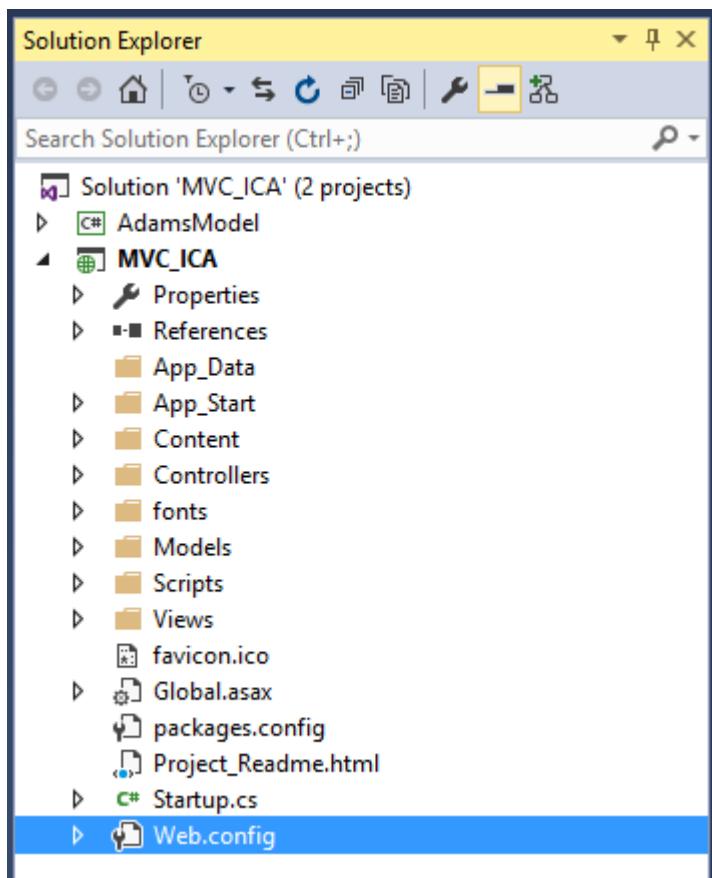
Within the file you can find the connection string within the <connectionString> tag. Highlight the connection string and copy it. (right click, copy).



```
App.config # X ModelAdam.cs
1  <?xml version="1.0" encoding="utf-8"?>
2  <configuration>
3      <configSections>
4          <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwlink/?LinkId=237468 -->
5          <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
6      </configSections>
7      <entityFramework>
8          <defaultConnectionFactory type="System.Data.Entity.Infrastructure.SqlConnectionFactory, EntityFramework" />
9          <providers>
10             <provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />
11         </providers>
12     </entityFramework>
13     <connectionStrings>
14         <add name="ModelAdamDB" connectionString="data source=TU98819\SQLEXPRESS;initial catalog="Guappo Hair Design";integrated security=True;MultipleActiveResultSets=True;Max Pool Size=100" />
15     </connectionStrings>
16 </configuration>
```

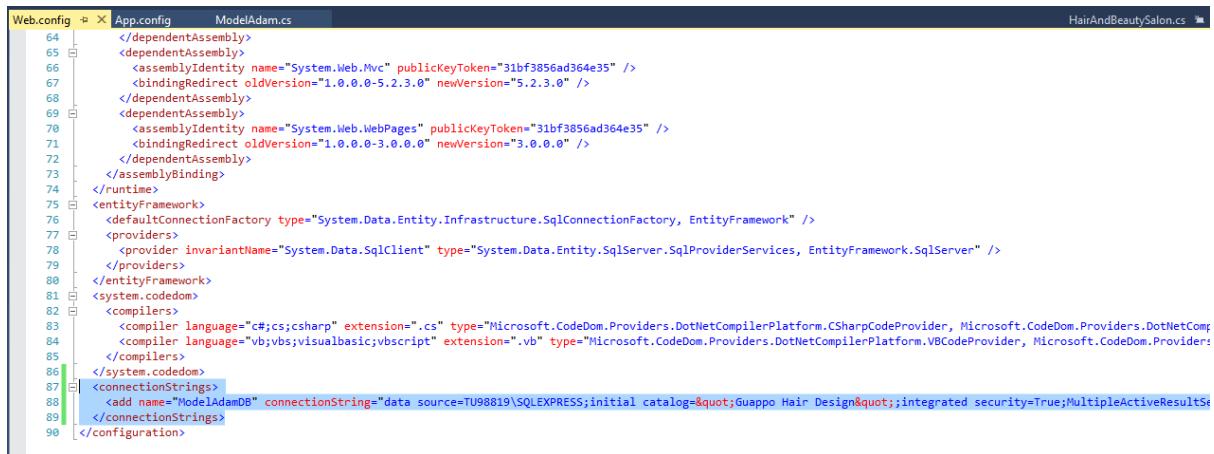
5.4.3.7 Web.config

Within the Solution explorer find the Web.config file and open it.



5.4.3.8 Connection String Copy

Paste the connection string just before the end of the configuration, in this example I have placed right above the closing tab, ensure you save the project at this point making sure that these changes are saved.



```

<connectionStrings>
    <add name="ModelAdamDB" connectionString="data source=TU98819\SQLEXPRESS;initial catalog="Guppo Hair Design";integrated security=True;MultipleActiveResultSets=True;App=EntityDataSource1" providerName="System.Data.SqlClient" />
</connectionStrings>

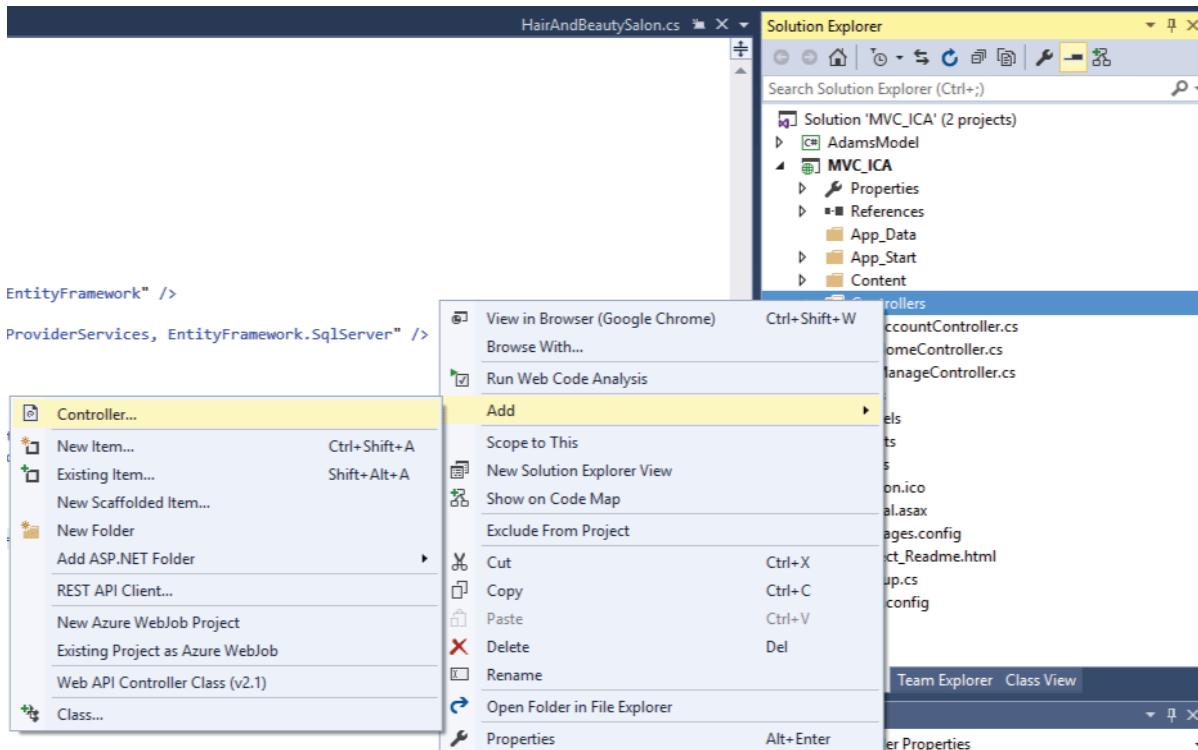
```

5.4.4 Adding a controller

I will now add a controller for Customer

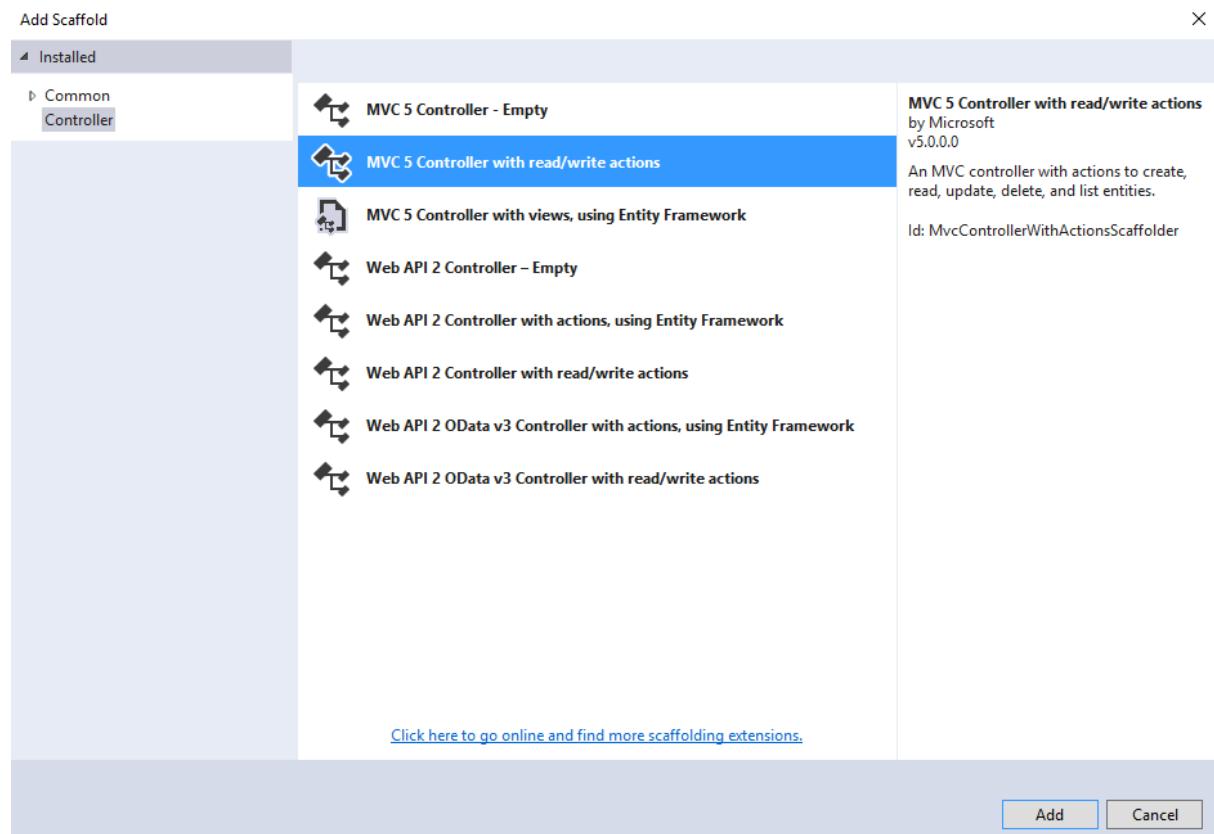
5.4.4.1 Controller

In solution explorer right hand click controller and click add > controller.



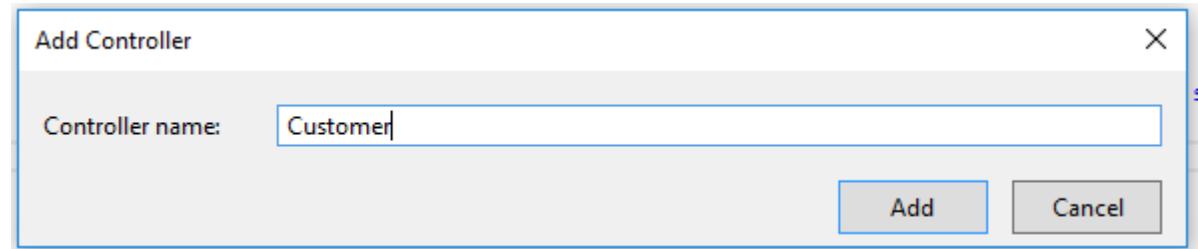
5.4.4.2 MVC 5 Controller

Select a controller with read/write actions, click add.



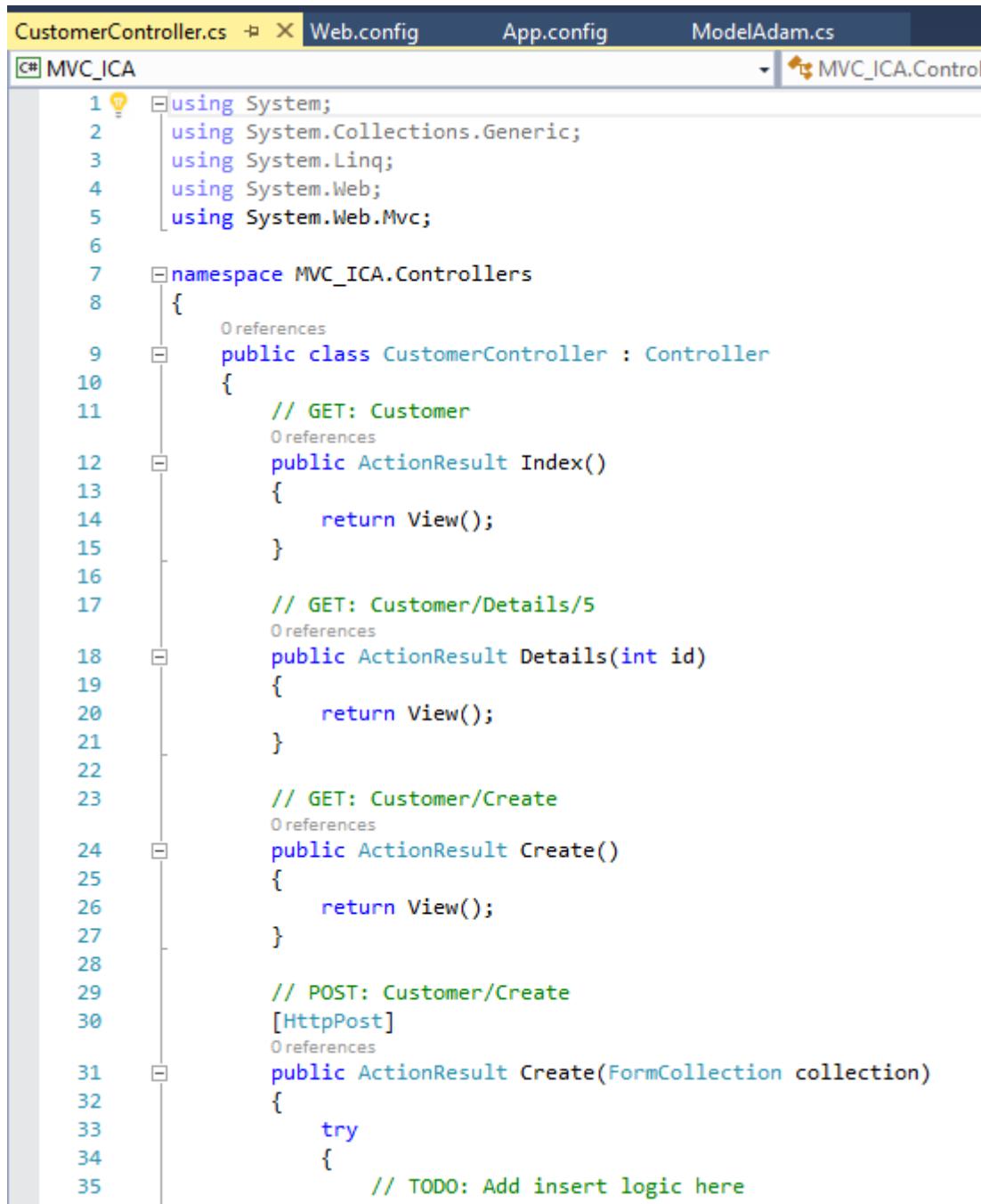
5.4.4.3 Name accordingly

Chose an appropriate name for the controller.



5.4.4.4 Empty class

You will have now created an empty CustomerController class.

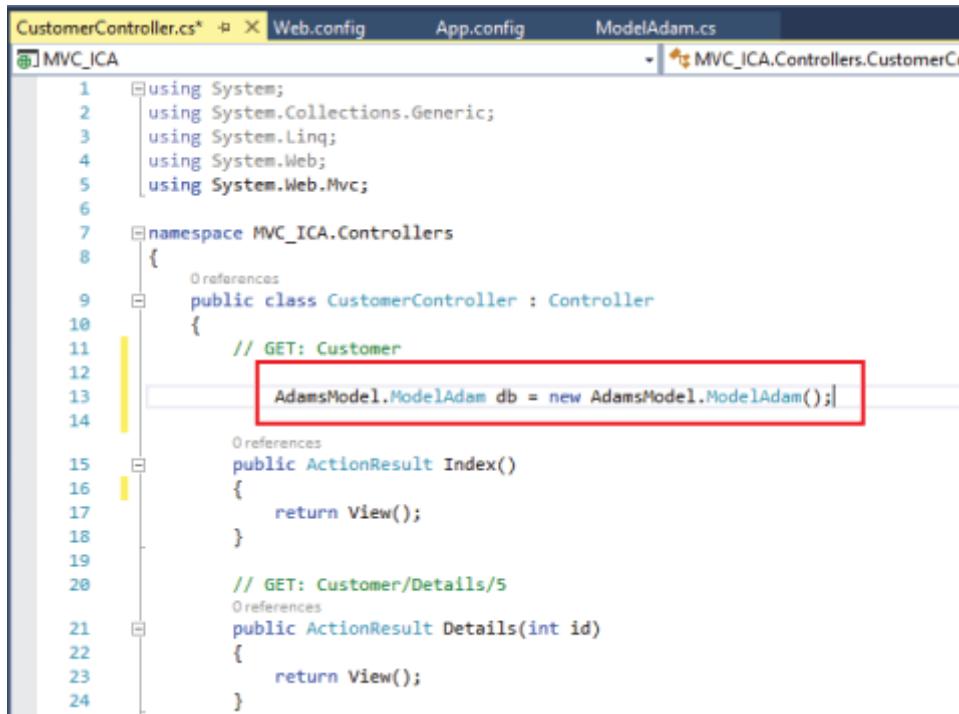


The screenshot shows a code editor with the tab bar at the top containing "CustomerController.cs", "Web.config", "App.config", and "ModelAdam.cs". The main window displays the following C# code for the CustomerController class:

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Web.Mvc;
6
7  namespace MVC_ICA.Controllers
8  {
9      public class CustomerController : Controller
10     {
11         // GET: Customer
12         public ActionResult Index()
13         {
14             return View();
15         }
16
17         // GET: Customer/Details/5
18         public ActionResult Details(int id)
19         {
20             return View();
21         }
22
23         // GET: Customer/Create
24         public ActionResult Create()
25         {
26             return View();
27         }
28
29         // POST: Customer/Create
30         [HttpPost]
31         public ActionResult Create(FormCollection collection)
32         {
33             try
34             {
35                 // TODO: Add insert logic here
36             }
37         }
38     }
39 }
```

5.4.4.5 Creating an instance of the database

We must now help the empty class understand where the database is. We know that the database lives inside the 'AdamsModel' namespace. Inside of the 'AdamsModel' namespace is the database context. To create a new instance, using the correct names, add in the following line of code inside of the public class.



```
CustomerController.cs*  X  Web.config      App.config      ModelAdam.cs
@J MVC_ICA
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Web.Mvc;
6
7  namespace MVC_ICA.Controllers
8  {
9      public class CustomerController : Controller
10     {
11         // GET: Customer
12         AdamsModel.ModelAdam db = new AdamsModel.ModelAdam();
13
14         public ActionResult Index()
15         {
16             return View();
17         }
18
19         // GET: Customer/Details/5
20         public ActionResult Details(int id)
21         {
22             return View();
23         }
24     }
25 }
```

5.4.5 Creating a View

We will now create a view to show all customers.

5.4.5.1 View all Customers

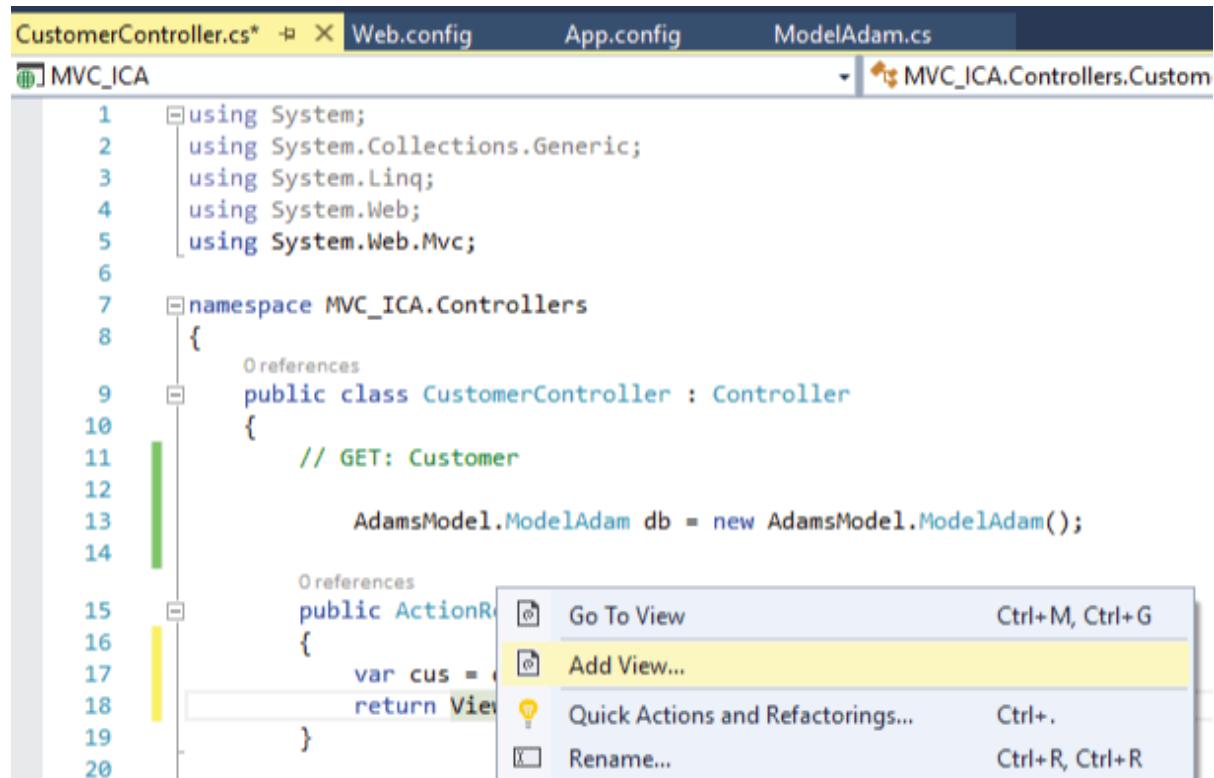
In order to view all Customers we need to create a variable to which will get all customer from the database. We need to then enter the name of the variable inside of the returning view.

```
namespace MVC_ICA.Controllers
{
    public class CustomerController : Controller
    {
        // GET: Customer
        AdamsModel.ModelAdam db = new AdamsModel.ModelAdam();

        public ActionResult Index()
        {
            var cus = db.Customers;
            return View(cus);
        }
    }
}
```

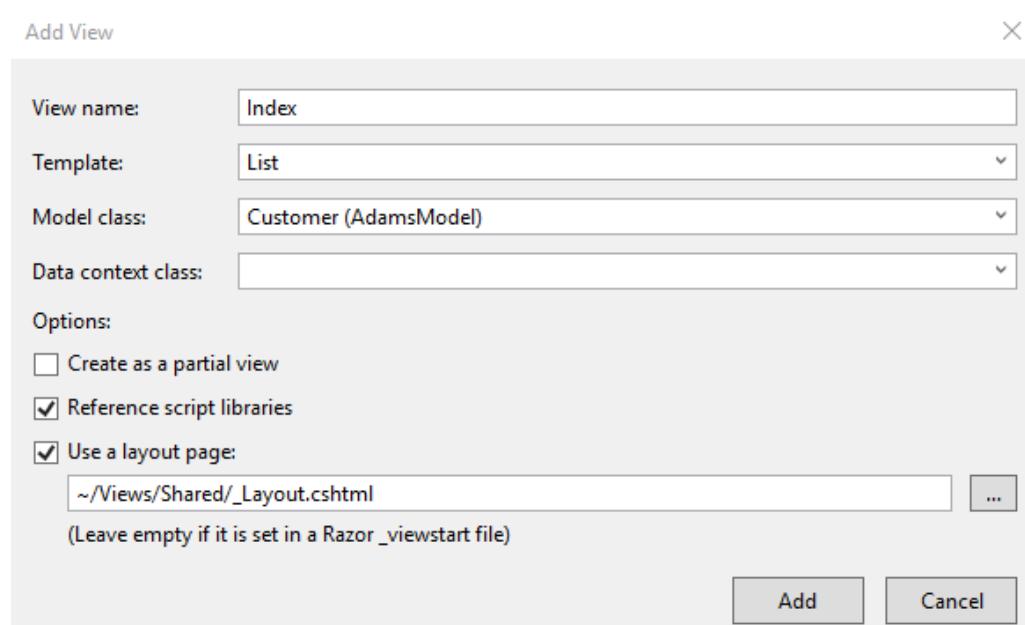
5.4.5.2 Scaffolding a view

To create a new view right hand click the view and click add view.



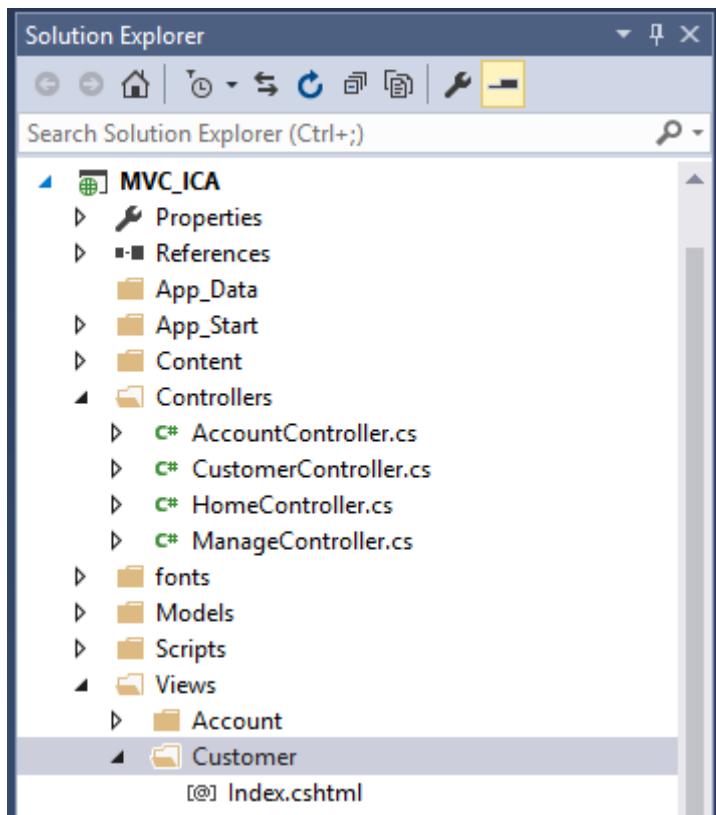
5.4.5.3 View Configuration

Within the View pane click template and click list. The model class in my case will be Customer and the layout I'm interested in is the layout page, click add.



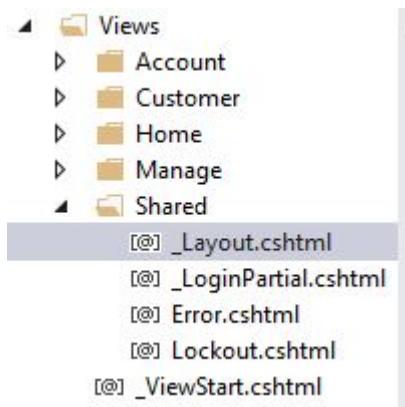
5.4.5.4 New view

The view will then be created.



5.4.5.5 Adding Customer Tab

Before running the project, to make viewing all customers a little easier, we can go to views, shared and _layout.cshtml and add the Customers tab.



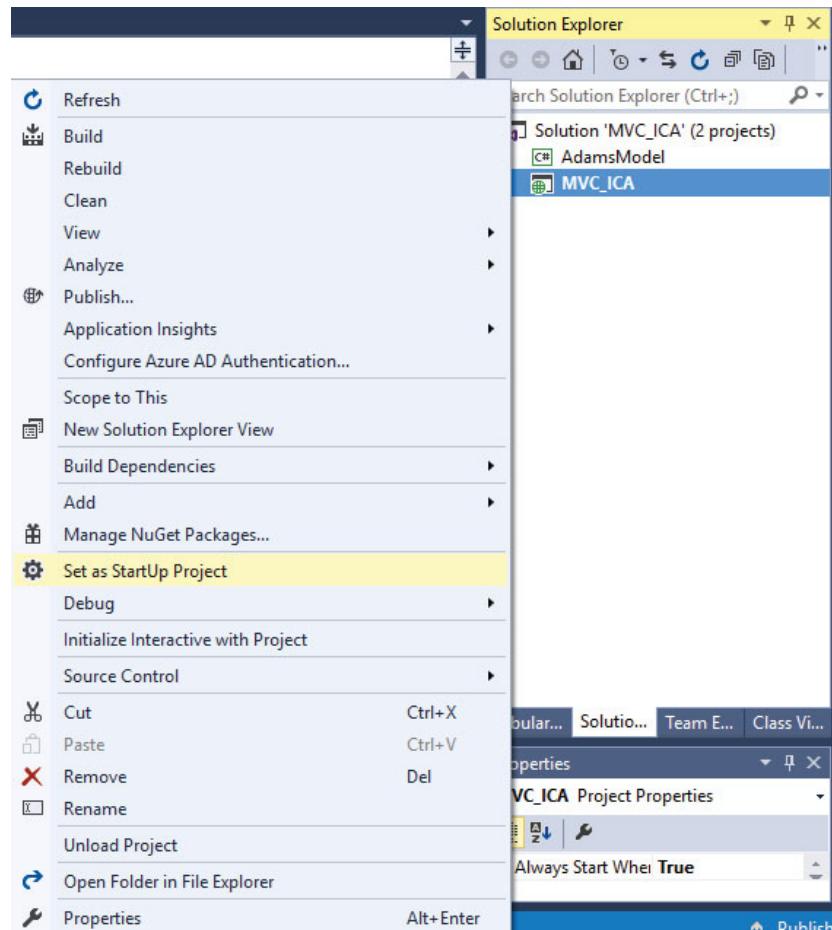
5.4.5.6 Contact tab

As the contact tab is not important to us we can change the ActionLink from "`Contact`", "`Contact`", "`Home`" to "`Customer`", "`Index`", "`Customer`". This will ensure that when we run the project in order to view all Customers we only have to click the Customers link. Press save at this point.

```
<div class="navbar-collapse collapse">
    <ul class="nav navbar-nav">
        <li>@Html.ActionLink("Home", "Index", "Home")</li>
        <li>@Html.ActionLink("About", "About", "Home")</li>
        <li>@Html.ActionLink("Customer", "Index", "Customer")</li>
    </ul>
```

5.4.5.7 Start-up Project

Before running the project, within solution explorer, right click the MCV application and click 'Set as StartUp Project'.



5.4.5.8 Run the Project

To run the project press f5. You will now see the Customer tab at the top, click it.



5.4.5.9 All Customers

You will now see a list of all the Customers in the database. In this example I have took a screen shot of all the customers that could fit in the window, there are more.

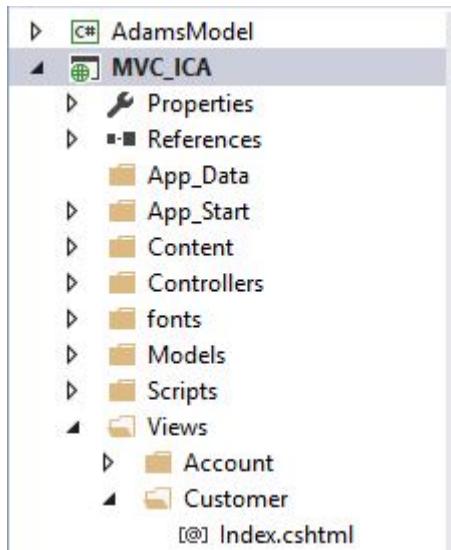
Index

Create New

ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email	PhoneNo	Username	Password	
Adam	Smith	Dr	29/07/1988 00:00:00	17 Rosebay Close, Shotton	DH6 2LH	Smith06@hotmail.co.uk	07824698886	Smith06@hotmail.co.u	ApplyMacintosh24!	Edit Details Delete
James	Coils		30/09/1976 00:00:00	29 Hawthorne crescent, Trimdon	SR8 2LA	James.Coils@yahoo.com	07824978655	J.Coils	CaseyNeistat!	Edit Details Delete
Helen	Ferguson	Miss	16/03/1992 00:00:00	47 Lilac Terrace,Horden	E6 4GO	FergieFergie@gmail.com	0786492349	FergieFergie@gmail.c	BlackEyedPeas<>	Edit Details Delete
Ruth	Flemming	Mrs	28/03/1964 00:00:00	45 Grey Street, Ingleby Barwick	TS1 4PU	Fleming_Ruth@Gmail.com	01915264009	Fleming.Ruth	QueenElizabeth1!	Edit Details Delete
Latisha	Brown	Mrs	20/05/1973 00:00:00	269 North Hyde La, Hounslow, Southal	UB2 5TE	Latisha73@hotmail.co.uk	07896548955	L.Brown73	Gretzky99	Edit Details Delete
Elaine	Simpson	Mrs	02/06/1982 00:00:00	48 Dawson Road, Wingate	DH5 P89	Simpson1982@gmail.com	07896547866	Simpson_Elaine	Arg3nt1Na	Edit Details Delete

5.4.5.10 Tidying Up

As we might not want to see some information whilst viewing all customers i.e. Username and Password – we can tidy up the view. To do this, within solution explorer, click Views, Customer > Index.cshtml.



5.4.5.11 Deleting / Commenting

Within the Customer index view we can delete the table header and table data for the Username and Password columns. In this example I will comment out the relevant information, `@* *@` is used as a comment. The table header info is listed as `<th> </th>` and the table data is listed as `<td> </td>`. This will ensure that both the headers and data are removed, click save.

Table Header

```
[@*<th>
    @Html.DisplayNameFor(model => model.Username)
</th>
<th>
    @Html.DisplayNameFor(model => model.Password)
</th>*@
<th></th>
```

Table Data

```
@*<td>
    @Html.DisplayFor(modelItem => item.Username)
</td>
<td>
    @Html.DisplayFor(modelItem => item.Password)
</td>*@
```

5.4.5.12 Run the project

Run the project by clicking f5, you will now see that the Username and password are not showing.

Application name	Home	About	Customer	Register	Log in
------------------	------	-------	----------	----------	--------

Index

[Create New](#)

ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email	PhoneNo	
Adam	Smith	Dr	29/07/1988 00:00:00	17 Rosebay Close, Shotton	DH6 2LH	Smith06@hotmail.co.uk	07824698886	Edit Details Delete
James	Coils		30/09/1976 00:00:00	29 Hawthorne crescent, Trimdon	SR8 2LA	James.Coils@yahoo.com	07824978655	Edit Details Delete
Helen	Ferguson	Miss	16/03/1992 00:00:00	47 Lilac Terrace,Horden	E6 4GO	FergieFergie@gmail.com	0786492349	Edit Details Delete
Ruth	Flemming	Mrs	28/03/1964 00:00:00	45 Grey Street, Ingleby Barwick	TS1 4PU	Fleming_Ruth@gmail.com	01915264009	Edit Details Delete
Latisha	Brown	Mrs	20/05/1973 00:00:00	269 North Hyde La, Hounslow, Southal	UB2 5TE	Latisha73@hotmail.co.uk	07896548955	Edit Details Delete
Elaine	Simpson	Mrs	02/06/1982 00:00:00	48 Dawson Road, Wingate	DH5 P89	Simpson1982@gmail.com	07896547866	Edit Details Delete
Ted	Grant	Mr	02/02/1983 00:00:00	81 Wellfield Crescent	SR4 9PL	Granty_1212@hotmail.co.uk	07824665565	Edit Details Delete
Steven	Blakey	Mr	08/08/1985 00:00:00	21 Shotton View, Mount Pleasant	M3 8PL	Blakey1985@yahoo.co.uk	07862486682	Edit Details Delete
Kirsty	Fishwick	Miss	02/02/1992 00:00:00	Wessington Way, Peterlee	SR3 9PH	Kirsty.Fishwick1992@yahoo.com	05267256276	Edit Details Delete
Megan	Slater	Miss	25/12/1992 00:00:00	25 Langley Park, Durham	DH1 3NU	Megan.Slater@hotmail.com	07896242233	Edit Details Delete
Jacky	Stansfield	Miss	05/05/1964 00:00:00	67 Front Street, Coxhoe, Durham	DH2 3PU	Jacky.Stansfield@bt.com	07899594668	Edit Details Delete
Carly	Mitchell	Mrs	06/08/1988 00:00:00	32 Victoria Street, South Hetton	DH4 7PH	Carly.cm88@hotmail.co.uk	07845545872	Edit Details Delete

5.4.5.13 more defined

You can repeat the same process if you want less information showing for our customers, in this example there are only the Forename, Surname and Address showing.

Application name	Home	About	Customer	Register	Log in
------------------	------	-------	----------	----------	--------

Index

[Create New](#)

ForeName	Surname	Address	
Adam	Smith	17 Rosebay Close, Shotton	Edit Details Delete
James	Coils	29 Hawthorne crescent, Trimdon	Edit Details Delete
Helen	Ferguson	47 Lilac Terrace,Horden	Edit Details Delete
Ruth	Flemming	45 Grey Street, Ingleby Barwick	Edit Details Delete
Latisha	Brown	269 North Hyde La, Hounslow, Southal	Edit Details Delete
Elaine	Simpson	48 Dawson Road, Wingate	Edit Details Delete
Ted	Grant	81 Wellfield Crescent	Edit Details Delete
Steven	Blakey	21 Shotton View, Mount Pleasant	Edit Details Delete
Kirsty	Fishwick	Wessington Way, Peterlee	Edit Details Delete
Megan	Slater	25 Langley Park, Durham	Edit Details Delete
Jacky	Stansfield	67 Front Street, Coxhoe, Durham	Edit Details Delete
Carly	Mitchell	32 Victoria Street, South Hetton	Edit Details Delete

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5.4.6 Create New Customer

This section will show you how to be able to create a new customer within the web application.

5.4.6.1 Necessary Code

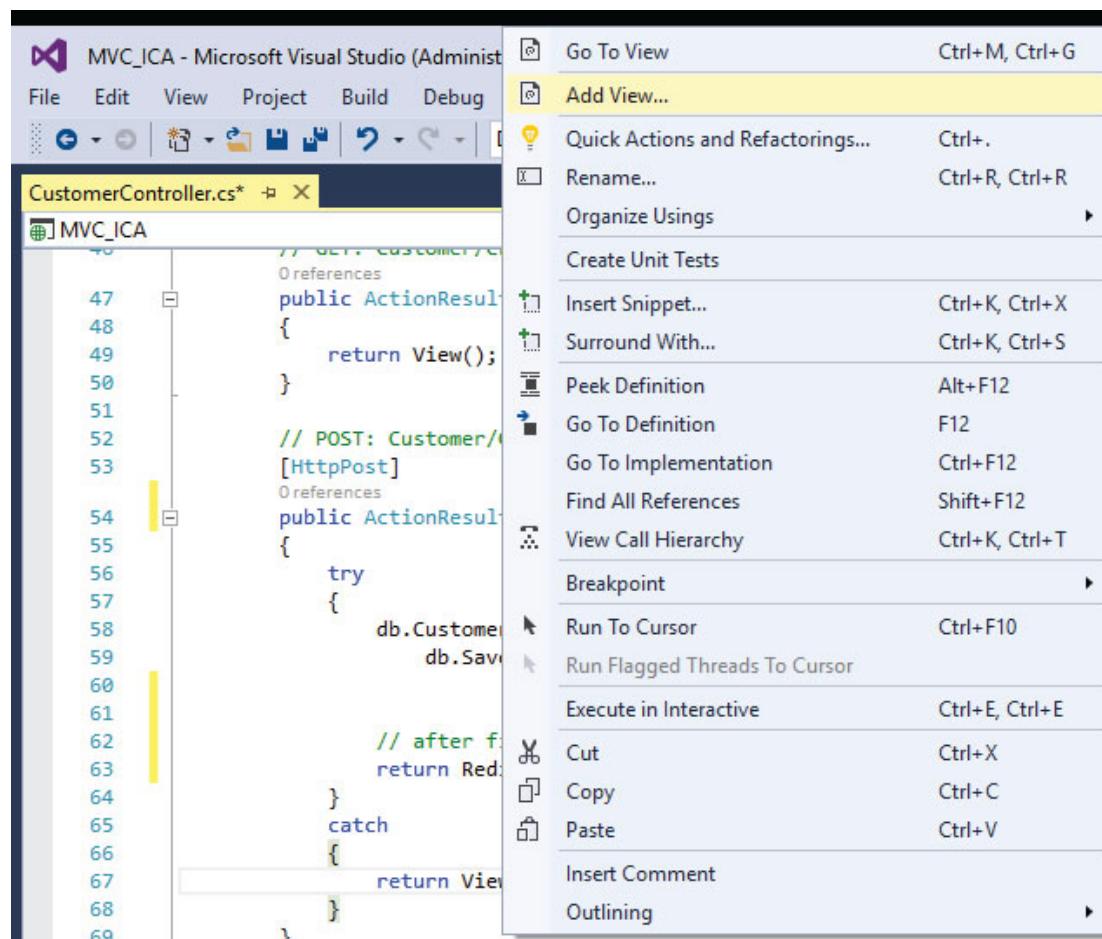
Within the 'Post' Create section within the Customer Controller add the following code which I have commented for your use.

```
// POST: Customer/Create
[HttpPost]
0 references
public ActionResult Create(AdamsModel.Customer Customer)
{
    try
    {
        db.Customers.Add(Customer); //Creating the new Customer within the db.
        db.SaveChanges(); // save the changes to the db.

        // after filling in the form the user is taken back to the index where all customers are showing
        return RedirectToAction("Index");
    }
    catch
    {
        return View(Customer); // return the view
    }
}
```

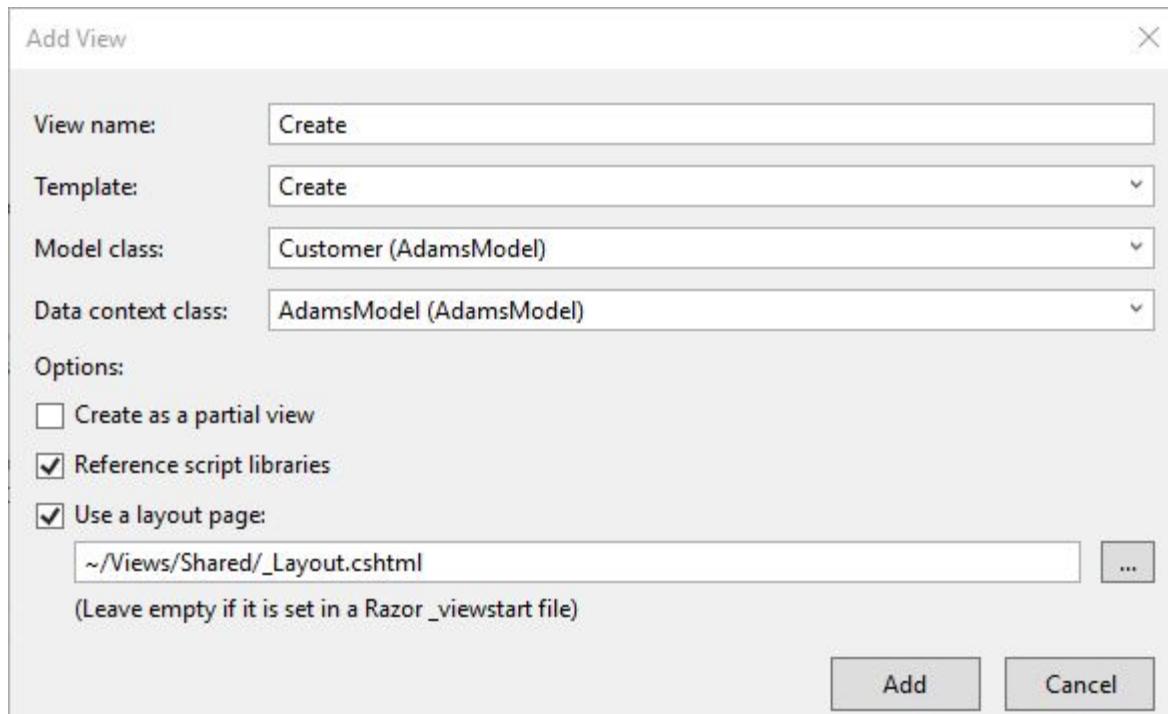
5.4.6.2 Scaffold the Create View

Within the catch clause right click 'View' and click add view.



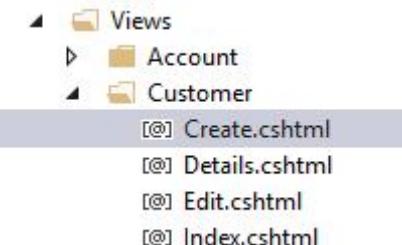
5.4.6.3 View Properties

As this is the Create View the name is create. The template we want it the Create template. Select the relevant Model class and Data context class, click add.



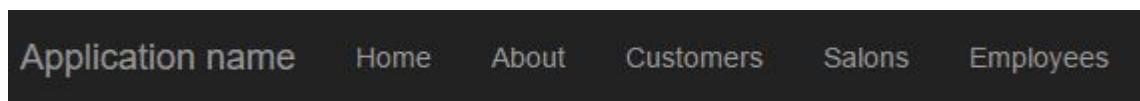
5.4.6.4 Solution Explorer

Within the Solution Explorer, the Create.cshtml file will be created within the Customer View folder, save the program.



5.4.6.5 Nav bar

Press f5 and run the program and click on the customers tab.



5.4.6.6 Create

Within the customer page click 'Create New'.

Index

[Create New](#)

ForeName	Surname	Address	
Adam	Smith	17 Rosebay Close, Shotton	Edit Details Delete
James	Coils	29 Hawthorne crescent, Trimdon	Edit Details Delete

5.4.6.6 Enter Details

Enter the details of a new customer, and click create.

Application name [Home](#) [About](#) [Customers](#) [Salons](#) [Employees](#)

Create

Customer

ForeName	Mansha
Surname	Nawaz
Title	Prof
DateOfBirth	1988-07-07
Address	26 Laburnum Terrace
Postcode	DH6 2HQ
Email	Mansha@testemail.com
PhoneNo	01915264989
Username	MNawaz!!!
Password	MNawaz1234!!!!
	<input type="button" value="Create"/>

5.4.6.7 New Customer

You will then be taken back to the index view where the new customer is created.

ForeName	Surname	Address	
Mansha	Nawaz	26 Laburnum Terrace	Edit Details Delete
Adam	Smith	17 Rosebay Close, Shotton	Edit Details Delete
James	Coils	29 Hawthorne crescent, Trimdon	Edit Details Delete

5.4.6.8 Database

If you check the database the new customer record will have been created. The customer is at the top with the CustomerID of 0 since I took away the option to enter an id at the create section, this then forces the id to be auto-created which is 0. All new records are entered at id = 0 which will then increment by one as another is created.

	CustomerID	ForeName	Surname	Title	DateOfBirth	Address	Postcode	Email	PhoneNo	Username
▶	0	Mansha	Nawaz	Prof	1988-07-07 00:00:00	26 Laburnum Terrace	DH6 2HQ	Mansha@testing.com	01915264989	MNawaz!!!
	1	Adam	Smith	Dr	1988-07-29 00:00:00	17 Rosebay Close	DH6 2LH	Smith06@hotmail.com	07824698886	Smith06@hotmail...
	2	James	Coils	NULL	1976-09-30 00:00:00	29 Hawthorne crescent	SR8 2LA	James.Coils@yahoo.com	07824978655	J.Coils

5.4.7 View Details

This section will show you how to be able to be able to view the full details of a customer.

5.4.7.1 Add Code

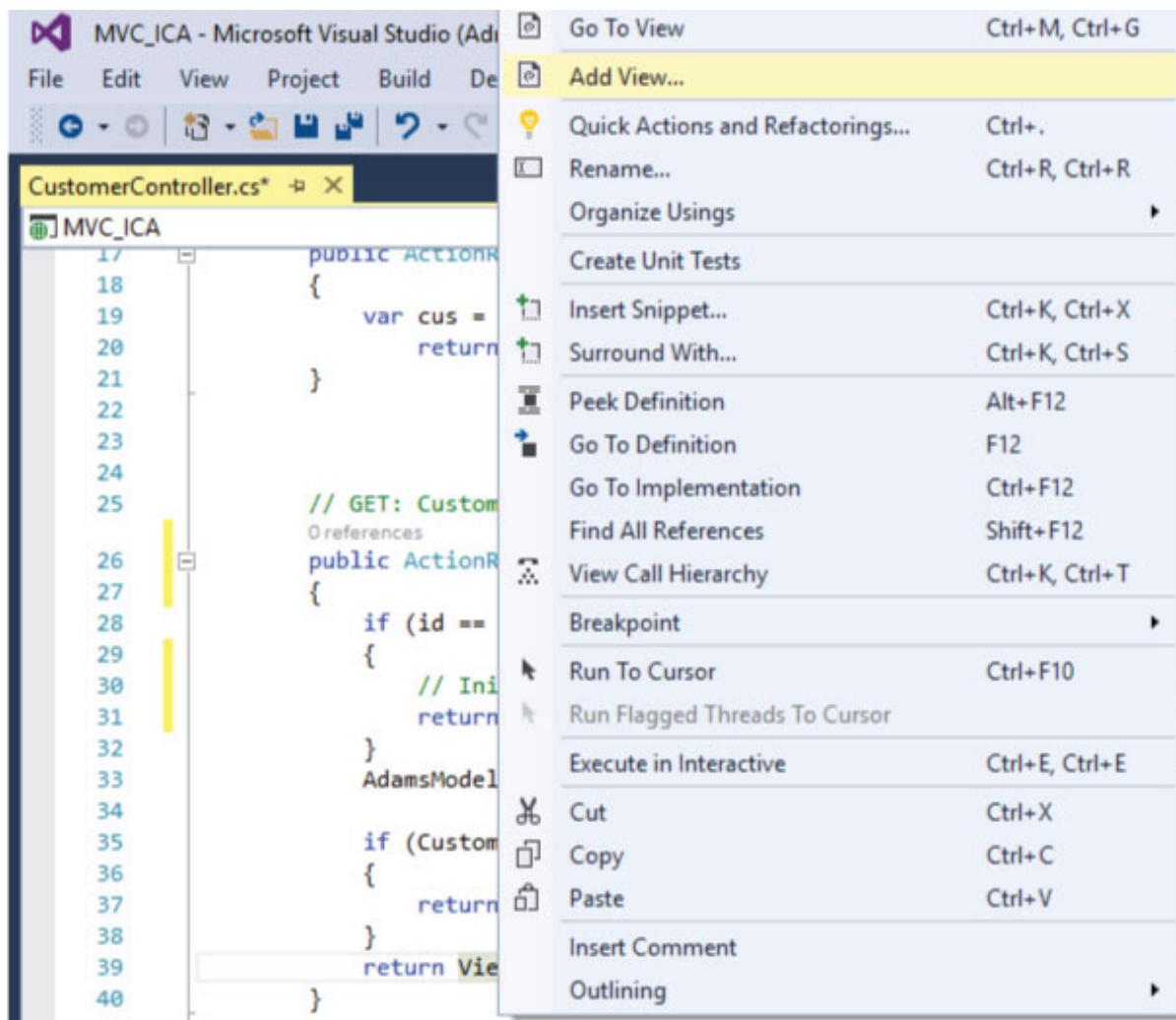
Within the 'Get' Customer details section within the customer controller add the following code which I have commented for your use.

```
// GET: Customer/Details/5
[HttpGet]
public ActionResult Details(int? id)//This is checking to see if the customer exists in db.
{
    if (id == null) //if the id is equal to null
    {
        // Initializes a new instance of the HttpStatusCodeResult class using HttpStatusCodeResult.BadRequest
        return new HttpStatusCodeResult(System.Net.HttpStatusCode.BadRequest);
    }
    AdamsModel.Customer Customer = db.Customers.Find(id); //finding the Customers That exist

    if (Customer == null) //if the Customers are set to null
    {
        return HttpNotFound(); // send the message
    }
    return View(Customer);// otherwise return the Customer Details.
}
```

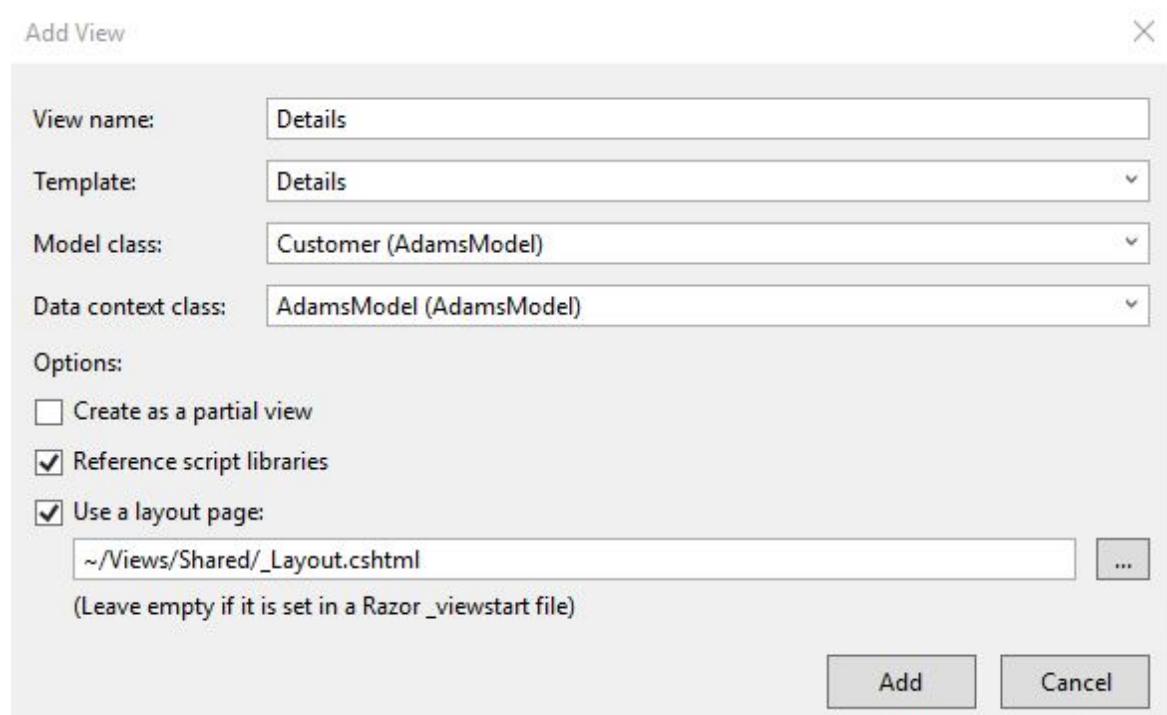
5.4.7.2 Scaffold the Details View

Within the same code, right click the 'View' and click Add View.



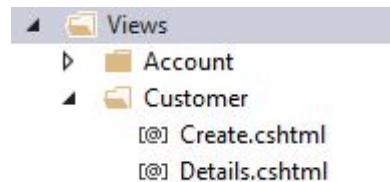
5.4.7.3 View Configuration

As this is the details view the name should be Details. The template we want is Details. Select the relevant model and data context classes, click add.



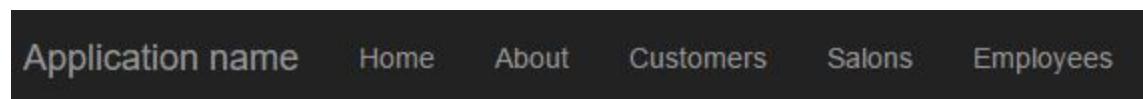
5.4.7.4 Solution Explorer

Within the Solution explorer, the Details.cshtml file should have been created, at this point, save your program.



5.4.7.5 Customer Navigation bar

Press F5 and run the program, click the Customers tab within the navigation bar.



5.4.7.6 Details

Within the full list of details you are now able to click the 'Details' button to view a specific customers details. Select a Customer and select their details, in this example I have chosen James Coils.

James	Coils	29 Hawthorne crescent, Trimdon	Edit Details Delete
-------	-------	--------------------------------	---

5.4.7.7 Full Details

Every field of details will then be listed within the Details view.

Details

Customer

ForeName	James
Surname	Coils
Title	
DateOfBirth	30/09/1976 00:00:00
Address	29 Hawthorne crescent, Trimdon
Postcode	SR8 2LA
Email	James.Coils@yahoo.com
PhoneNo	07824978655
Username	J.Coils
Password	CaseyNeistat!

[Edit](#) | [Back to List](#)

5.4.8 Edit Details

This section will show you how to be able to edit the details of an existing customer.

5.4.8.1 Add Code

Within the 'Get' and 'Post' of the Edit Section of the Customer Controller, add the following code which I have commented.

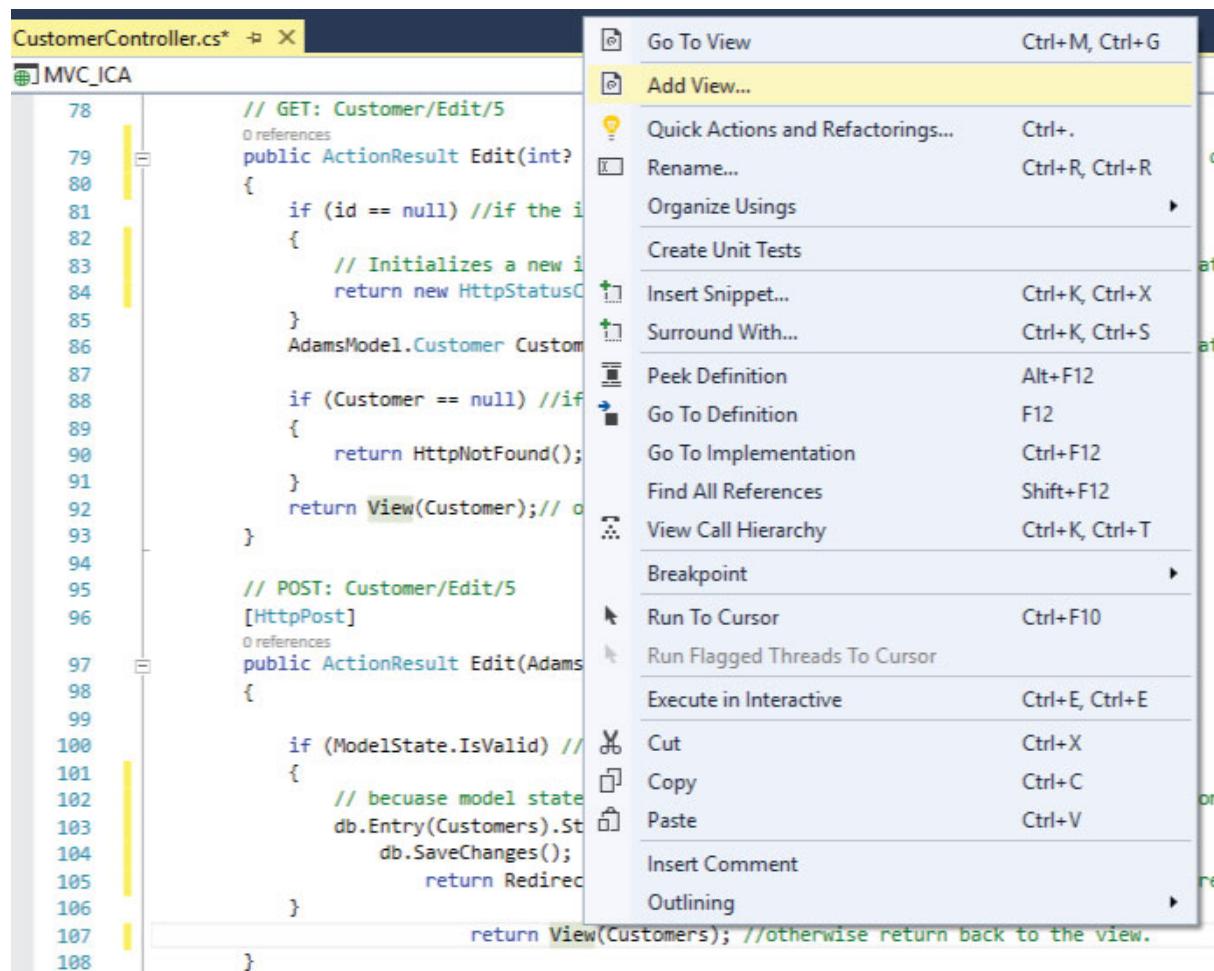
```
// GET: Customer/Edit/5
public ActionResult Edit(int? id)//This is checking to see if the customer exists in db.
{
    if (id == null) //if the id is equal to null
    {
        // Initializes a new instance of the HttpStatusCodeResult class using httpStatusCode.BadRequest
        return new HttpStatusCodeResult(System.Net.HttpStatusCode.BadRequest);
    }
    AdamsModel.Customer Customer = db.Customers.Find(id); //finding the Customers That exist

    if (Customer == null) //if the Customers are set to null
    {
        return HttpNotFound(); // send the message
    }
    return View(Customer);// otherwise return the Customer Details.
}

// POST: Customer/Edit/5
[HttpPost]
public ActionResult Edit(AdamsModel.Customer Customers)
{
    if (ModelState.IsValid) // tells me if any errors have been added to ModelState
    {
        // because model state was valid its allowing the changes to be made to Customer
        db.Entry(Customers).State = EntityState.Modified;
        db.SaveChanges(); // save changes when complete
        return RedirectToAction("Index"); //returns to main page / Index where changes can be seen
    }
    return View(Customers); //otherwise return back to the view.
}
```

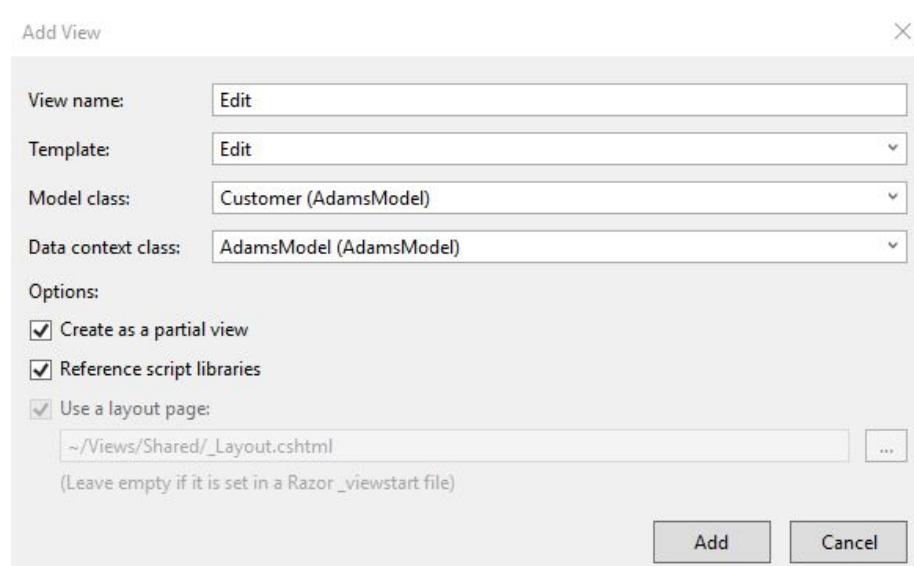
5.4.8.2 Create the Edit View

Within the 'Post' section of the details code, right click View and select add View.



5.4.8.3 Edit View Properties

Give it the Edit name and select the edit template. Make sure you select the correct Model and data context class.



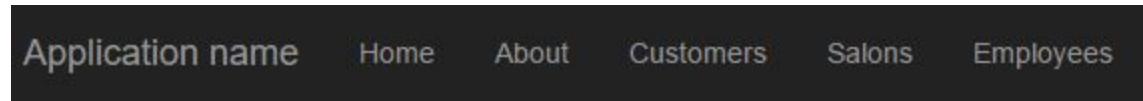
5.4.8.4 Solution Explorer

The Edit.cshtml will then be created, save your program.



5.4.8.5 Run the program

Press F5 and run the program, click the customers tab within the nav bar.



5.4.8.6 Edit

Within the Customers index view, find the customer you want to edit and click edit. In this example I have chosen Ted grant whose address is '81 Wellfield Crescent'. See images in both Visual Studio and the Database. Click edit.

Ted	Grant	81 Wellfield Crescent	Edit Details Delete
7	Ted	Grant	Mr

5.4.8.7 Edit Address

Within the Edit view, enter the new details for the Customer. In this example I will be editing his address, Click save, you will then be taken to the index view.

ForeName	Ted
Surname	Grant
Title	Mr
DateOfBirth	02/02/1983 00:00:00
Address	91 Castle View, Sherwood
Postcode	SR4 9PL
Email	Granty_1212@hotmail.co.uk
PhoneNo	07824665565
Username	Granty_1212
Password	Passw0rd!
<input type="button" value="Save"/>	

5.4.8.8 New Details

You can then view the Customers new details, see images in both Visual Studio and the Database.

Elaine	Simpson	48 Dawson Road, Wingate	Edit Details Delete
Ted	Grant	91 Castle View, Sherwood	Edit Details Delete
Steven	Blakey	21 Shotton View, Mount Pleasant	Edit Details Delete
<hr/>			
6	Elaine	Simpson	Mrs
7	Ted	Grant	Mr
8	Steven	Blakey	Mr
		1982-06-02 00:00:00	48 Dawson Road, Wingate
		1983-02-02 00:00:00	91 Castle View, Sherwood
		1985-08-08 00:00:00	21 Shotton View, Mount Pleasant
			DH5 P89
			SR4 9PL
			M3 8PL

5.4.9 Delete

Usually when you create the delete option you want it to soft delete. For a soft delete you want an 'active' flag set within the database. Then when a user deletes it would show as false within the database, this would then take it off the web interface since that would only show when the active flag is set to true. I have not implemented this since I do want to hard delete data and did not add the Active Flag into my database. The following is a simple walk through the basics.

5.4.9.1 Database

Within a table add a new column and add an Active. Give it the datatype of Bit and set is to allow null.

Active	bit	<input checked="" type="checkbox"/>
--------	-----	-------------------------------------

5.4.9.2 Code

The following is the code that would be used, this is my work from a previous assessment. The comments have been left in.

```
// GET: BusinessUnits/Delete/5
/// <summary>
/// HTTP Get Delete method doesn't delete the specified BU, it returns a view of the BU where you can submit (HttpPost) the Deletion.
/// </summary>
0 references
public ActionResult Delete(int id)
{
    BusinessUnit businessUnit = db.BusinessUnits.Find(id); //finding the correct BU (id)
    if (businessUnit == null || businessUnit.Active == false) //If theres no business unit and if active is set to false.
    {
        return HttpNotFound(); // return error
    }
    return View(businessUnit); //otherwise return to that view.
}

// POST: BusinessUnits/Delete/5
/// <summary>
/// This now soft deletes data.
/// </summary>
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
0 references
public ActionResult Delete(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest); // displays error message is not existant
    }
    BusinessUnit businessUnit = db.BusinessUnits.Find(id); // find the BU with the specified ID
    businessUnit.Active = false;
    db.Entry(businessUnit).State = EntityState.Modified; //modify the relevant BusinessUnit
    db.SaveChanges(); //save the changes
    return RedirectToAction("Index"); //return to the main page / Index where changes can be seen (or not seen in this case)
}
}
```

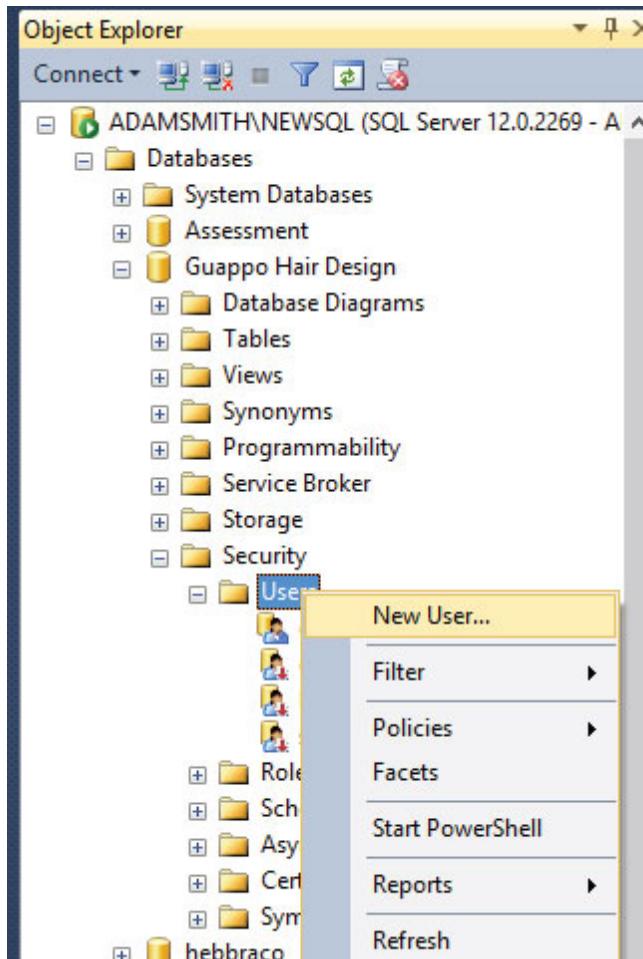
5.5 Permissions for Users within the Database

Certain Permissions can be given to users within the database. Permissions within most databases are crucial. In the database I have design, above, there is a staff hierarchy which will allow certain staff members do more than others.

5.5.1 Creating a User

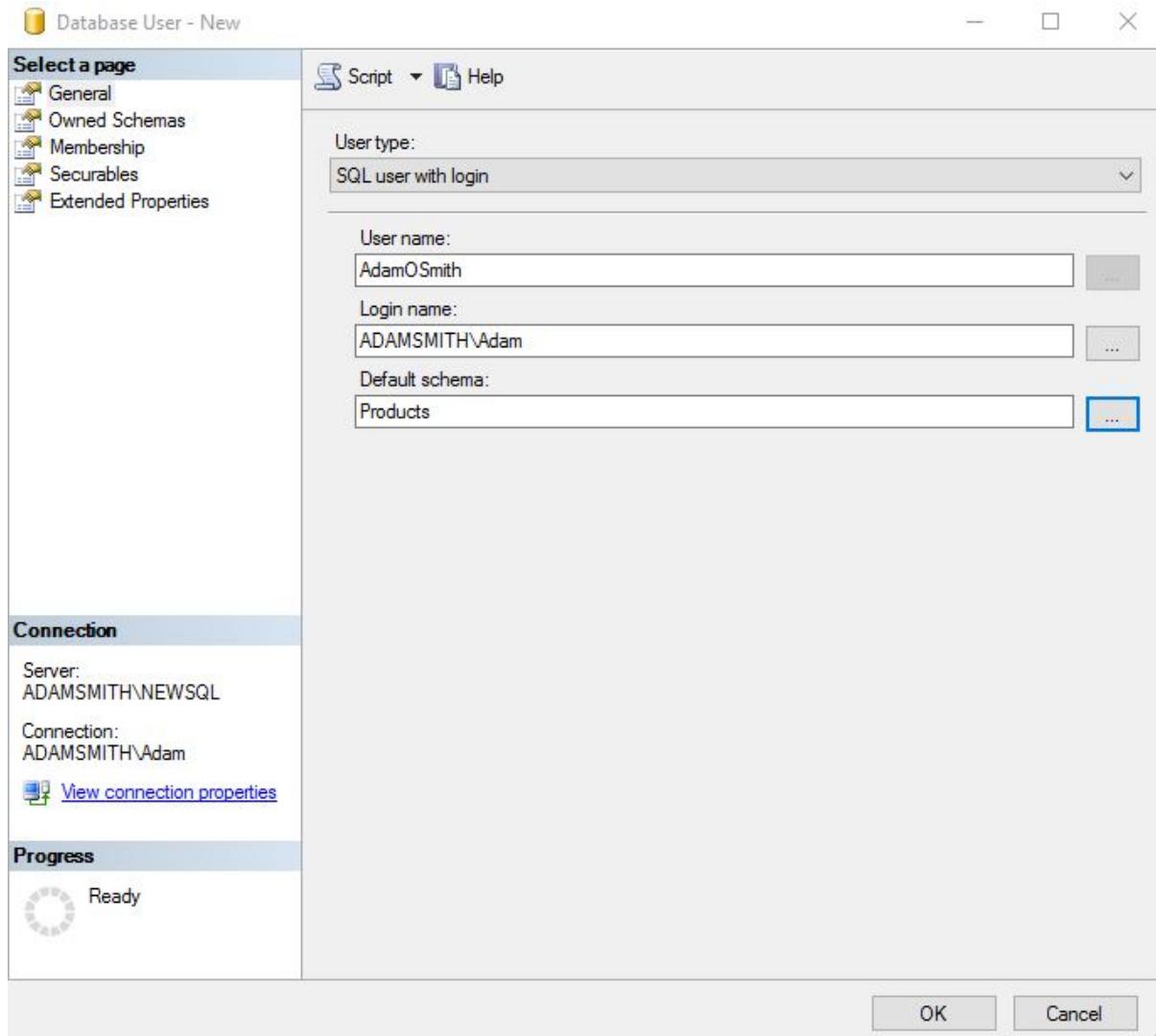
5.5.1.1 Add New

Within your database click security, right click users and select 'New User'.



5.5.1.2 User Details

Within the 'General' tab type a user name and for the login name enter the name of an SQL Server login, at this point you can also give the user access to a schema, in this example I have gave access to the Products schema, this will be that specific users default area.



5.5.2 Three Permissions

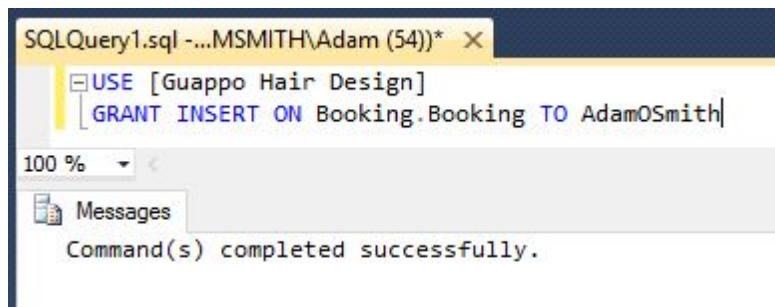
There are three statements that can be used to grant and deny permissions within the database. For instance; a permission could be to deny the update on a table within the database.

The three permissions are:

- 5 Grant
- 6 Deny
- 7 Revoke

5.5.2.1 Grant – Insert

To give the user the permission to insert on a single table only, the following grant command is used.



SQLQuery1.sql -...MSMITH\Adam (54)*

```
USE [Guappo Hair Design]
GRANT INSERT ON Booking.Booking TO AdamOSmith
```

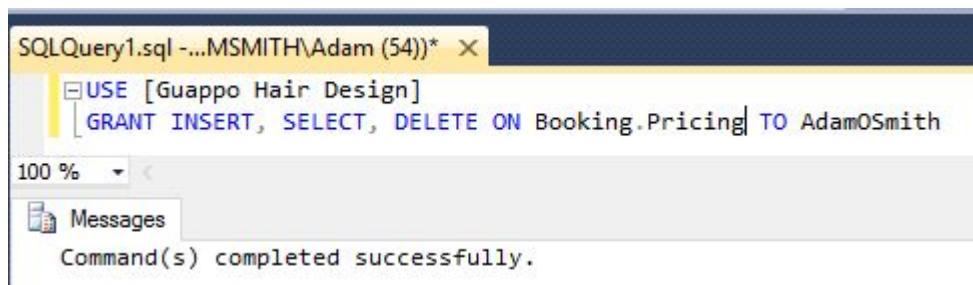
100 % <

Messages

Command(s) completed successfully.

5.5.2.1.1 Multiple permissions using grant

This can be used to give a user multiple permissions at once.



SQLQuery1.sql -...MSMITH\Adam (54)*

```
USE [Guappo Hair Design]
GRANT INSERT, SELECT, DELETE ON Booking.Pricing TO AdamOSmith
```

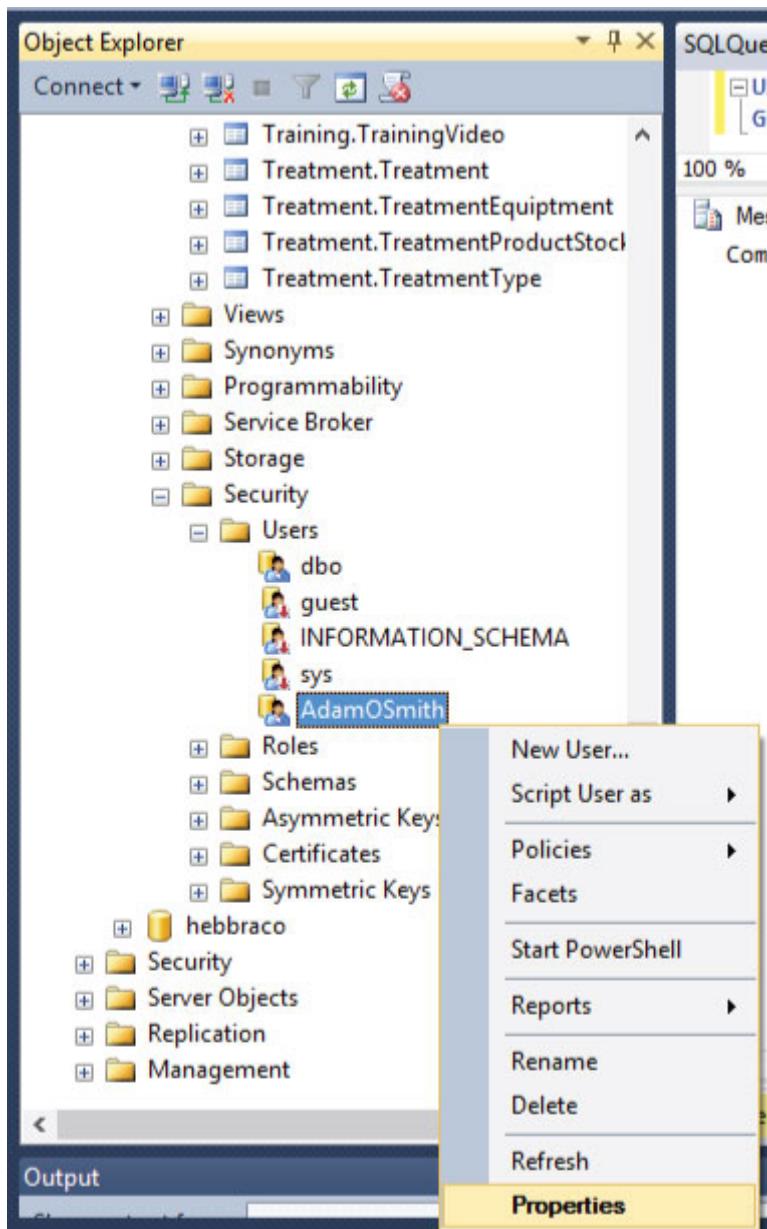
100 % <

Messages

Command(s) completed successfully.

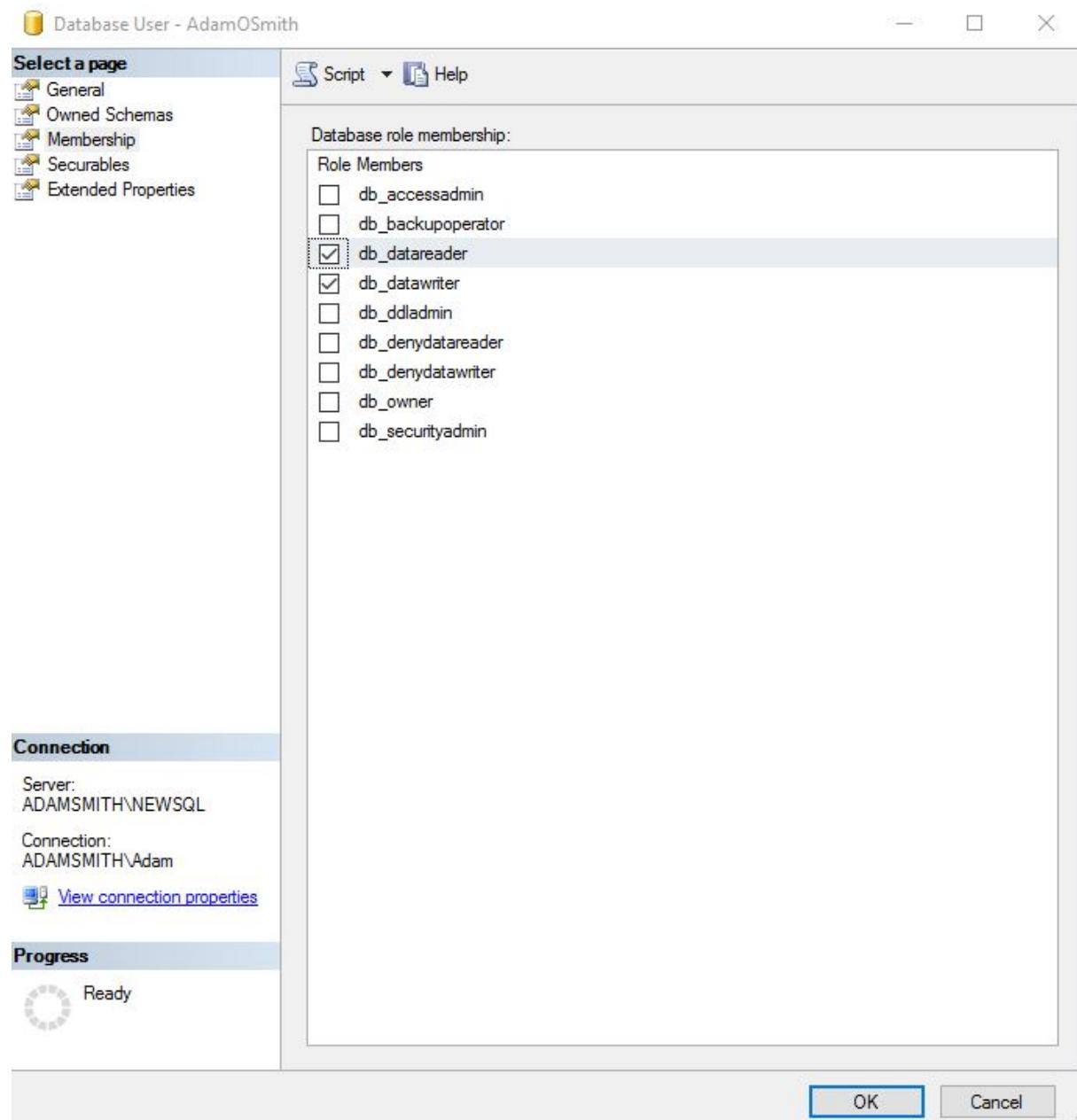
5.5.2.1.2 db_datareader & db_datawriter

The db_datareader gives a user the read permission on all tables within the database. The db_datawriter give writ permission on all tables, this will include insert, update and delete. These are given as follows. Within the database right hand click a user and select properties.



5.5.2.1.3 Memberships

Click the Membership tab and simply add a Database role, click ok



5.5.2.2 Deny

The deny command denies a user access to a certain table, tables or column.

5.5.2.2.1 Deny – insert

To Deny a user to insert on a single table only, the following grant command is used.

```
SQLQuery1.sql -...MSMITH\Adam (54)* X
USE [Guappo Hair Design]
DENY INSERT ON Training.EmployeeTraining TO AdamOSmith

100 % < 
Messages
Command(s) completed successfully.
```

5.5.2.2.2 Deny – Select, Insert and Delete

This can be used to give a user multiple permissions at once.

```
SQLQuery1.sql -...MSMITH\Adam (54)* X
USE [Guappo Hair Design]
DENY SELECT, INSERT, Delete ON Training.EmployeeTraining TO AdamOSmith

100 % < 
Messages
Command(s) completed successfully.
```

5.5.2.3 Revoke

The Revoke command is used to take away (*Revoke*) a previously given permission.

5.5.2.3.1 Revoke – GRANT INSERT

In 5.5.2.1 user *AdamOSmith* was granted to insert into table *Booking.Booking*, I will now revoke that permission.

```
SQLQuery1.sql -...MSMITH\Adam (54)* X
USE [Guappo Hair Design]
REVOKE INSERT ON Booking.Booking TO AdamOSmith

100 % < 
Messages
Command(s) completed successfully.
```

5.5.2 Stored Procedures

A Stored Procedure is a group of SQL statements together under a single heading, similar to methods in other programming languages. A Stored Procedure has the power to modify data within the db. Access rights can be granted to stored procedures which is a huge security benefit. You can create one stored procedure and call it as many times as you like, this would save an SQL programmer time from having to re-write the same statement over.

5.5.2.1 Simple Stored Procedure – Code

I have created the following query, it gets data from both the Salon table and the Booking table using the INNER JOIN command.

```
SELECT S.Name, S.Address, B.Confirmed, B.[Notes]
FROM Booking.Booking AS B
INNER JOIN Salon.HairAndBeautySalon AS S
ON B.SalonID = S.SalonID
```

	Name	Address	Confirmed	Notes
1	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Fussy Customer, be mindful.
2	Guappo Hair Design	20 Front Street, Shotton, County Durham	0	Hopefully wont take too long!
3	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	NULL
4	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	First trial of the new nail art
5	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Complete re-colour.
6	The Hair Studio	9 Upper Yoden Way, Castle Dene Shopping Centr...	1	NULL

5.5.2.2 Show certain records

A simple WHERE clause is used to show bookings that are equal to a certain salon name.

```
SELECT S.Name, S.Address, B.Confirmed, B.[Notes]
FROM Booking.Booking AS B
INNER JOIN Salon.HairAndBeautySalon AS S
ON B.SalonID = S.SalonID
Where S.[Name] = 'Guappo Hair Design'
```

	Name	Address	Confirmed	Notes
1	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Fussy Customer, be mindful.
2	Guappo Hair Design	20 Front Street, Shotton, County Durham	0	Hopefully wont take too long!
3	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	NULL
4	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	First trial of the new nail art
5	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Complete re-colour.

5.5.2.3 Create Procedure

As this could potentially be a useful piece of code that takes a long time to write, it can be made into a stored procedure that can be ran automatically. Add the 'CREATE PROCEDURE' above and give it a relevant name. Press f5, this should have created the procedure.

The screenshot shows a SQL query window titled 'SQLQuery2.sql - ...MSMITH\Adam (56)*'. The code entered is:

```
CREATE PROCEDURE GetGuappoBookings
AS
    SELECT S.Name, S.Address, B.Confirmed, B.[Notes]
    FROM Booking.Booking AS B
    INNER JOIN Salon.HairAndBeautySalon AS S
    ON B.SalonID = S.SalonID
    Where S.[Name] = 'Guappo Hair Design'
```

Below the code, a message box displays: 'Command(s) completed successfully.'

5.5.2.4 Execute

Now that you have ran the code you can open up a separate query window and execute the procedure.

The screenshot shows a SQL query window titled 'SQLQuery4.sql - ...MSMITH\Adam (54)*'. The command entered is:

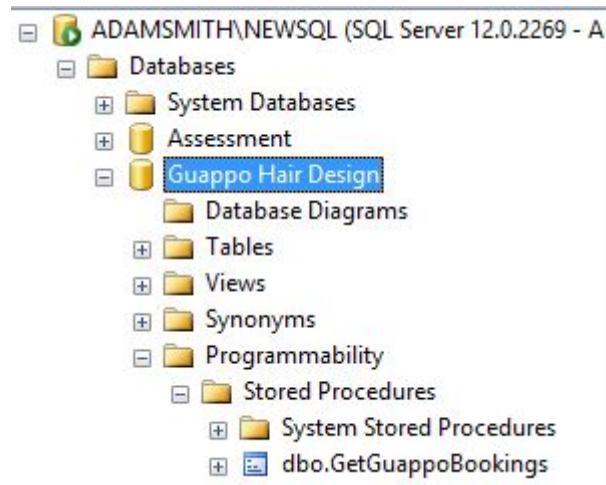
```
EXEC GetGuappoBookings
```

The results tab shows a table with the following data:

	Name	Address	Confirmed	Notes
1	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Fussy Customer, be mindful.
2	Guappo Hair Design	20 Front Street, Shotton, County Durham	0	Hopefully wont take too long!
3	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	NULL
4	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	First trial of the new nail art
5	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Complete re-colour.

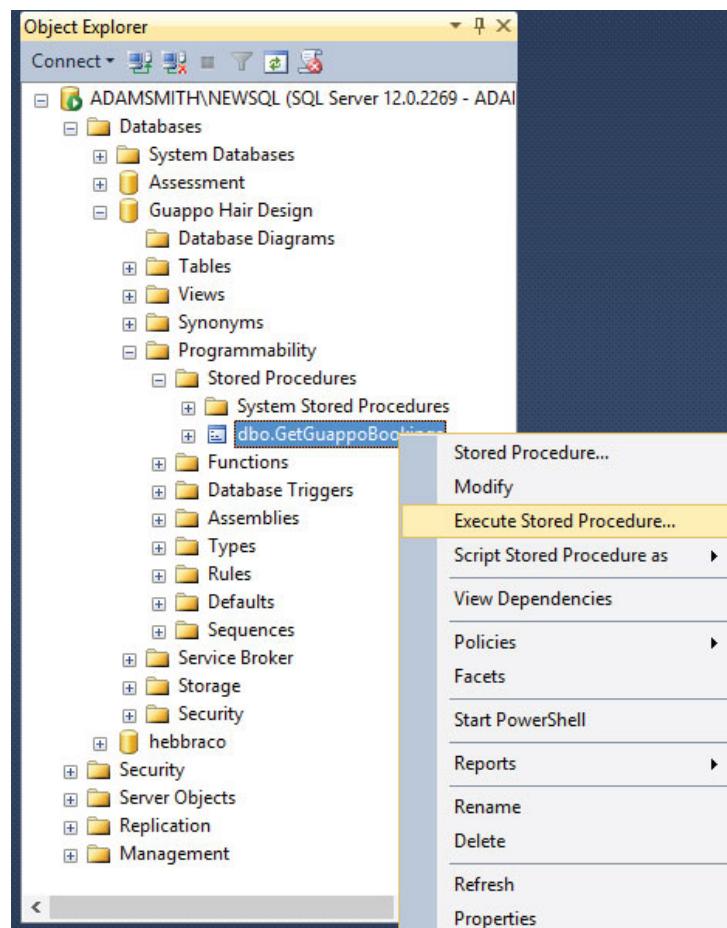
5.5.2.5 Location

The newly created stored procedure should then be located in <DatabaseName>, Programmability, Stored Procedures.



5.5.2.6 Executing Code – another way

Another way to execute the stored procedure is to right click your stored procedure and click ‘Execute Stored Procedure’.



5.5.2.7 Running the Procedure

Click ok on the pane and you should come to your Procedure. Press F5 to run the query.

The screenshot shows a SQL query window titled "SQLQuery8.sql - ...MSMITH\Adam (54) X". The query is:

```
USE [Guappo Hair Design]
GO

DECLARE @return_value int
EXEC    @return_value = [dbo].[GetGuappoBookings]
SELECT  'Return Value' = @return_value
GO
```

The results pane displays a table with five rows of data:

	Name	Address	Confirmed	Notes
1	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Fussy Customer, be mindful.
2	Guappo Hair Design	20 Front Street, Shotton, County Durham	0	Hopefully wont take too long!
3	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	NULL
4	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	First trial of the new nail art
5	Guappo Hair Design	20 Front Street, Shotton, County Durham	1	Complete re-colour.

Below the table, there is a single row labeled "Return Value" with value "0".

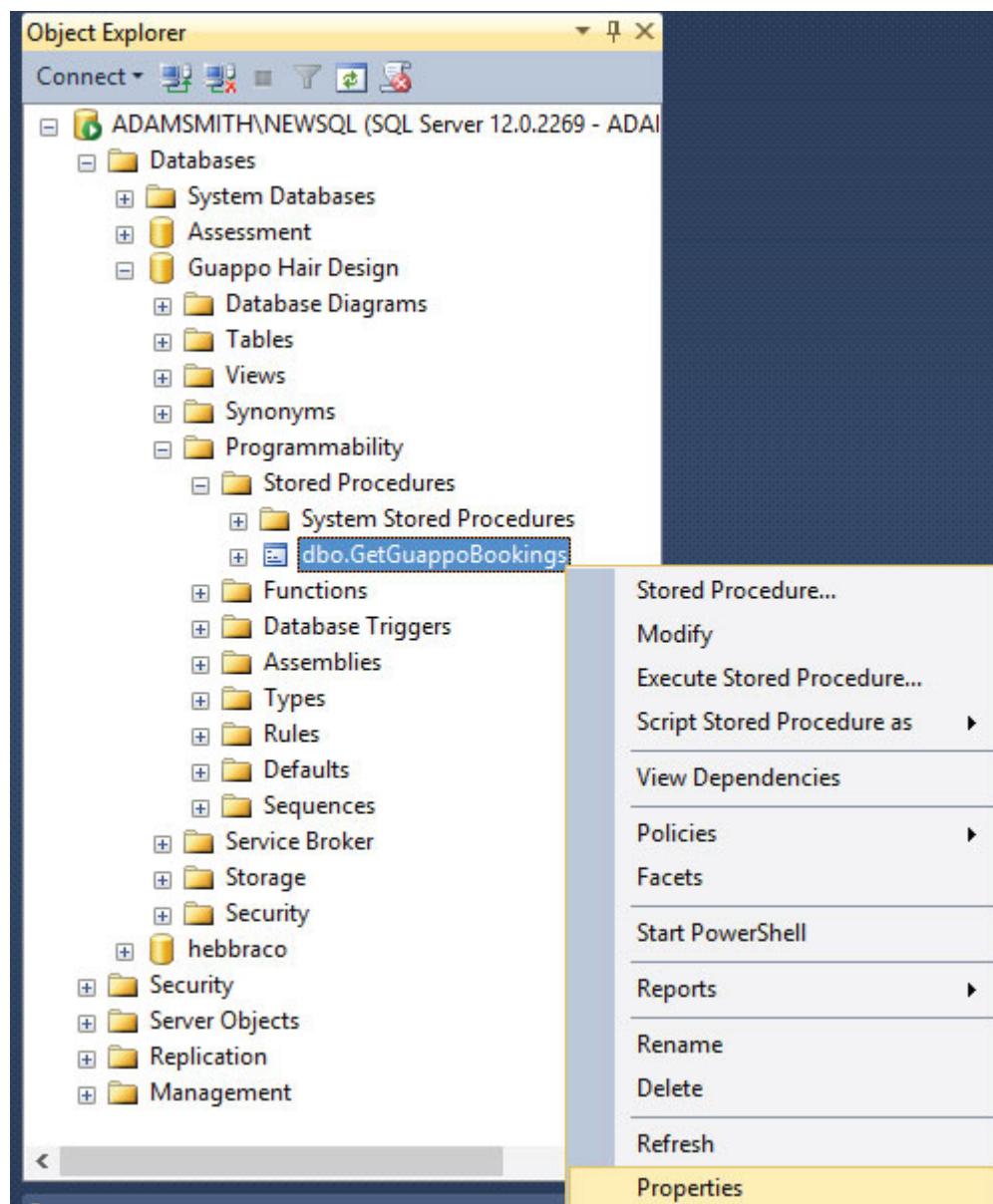
In the status bar at the bottom left, there is a green checkmark icon and the message "Query executed successfully." On the right side of the status bar, it shows the session information: ADAMSMITH\NEWSQL (12.0 RTM) | ADAMSMITH\Adam (54) | Guappo Hair Design.

5.5.3 Granting permissions on a stored procedure

The person that will be granting the permissions will usually be the database owner, but it can be a person that has been given the grant permission.

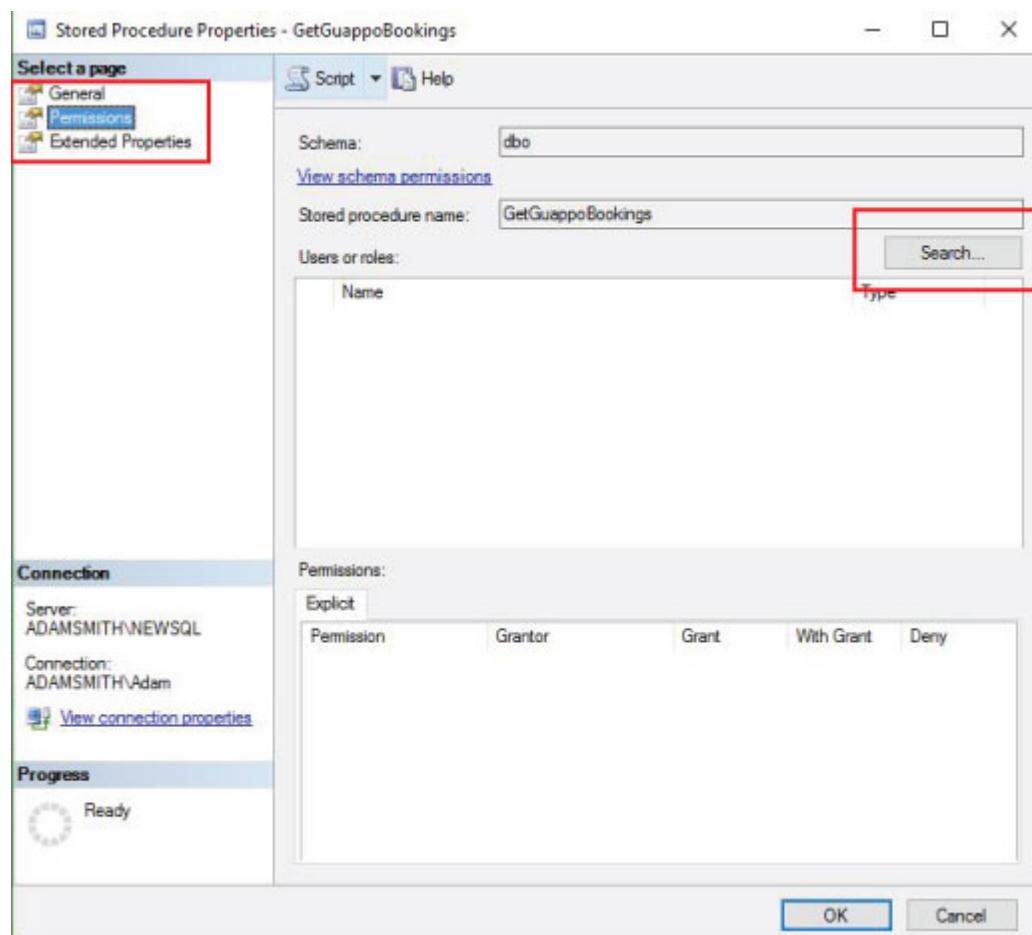
5.5.3.1 Selecting the stored procedure

Within your database, click programmability, stored procedures, right click your procedure and click properties.



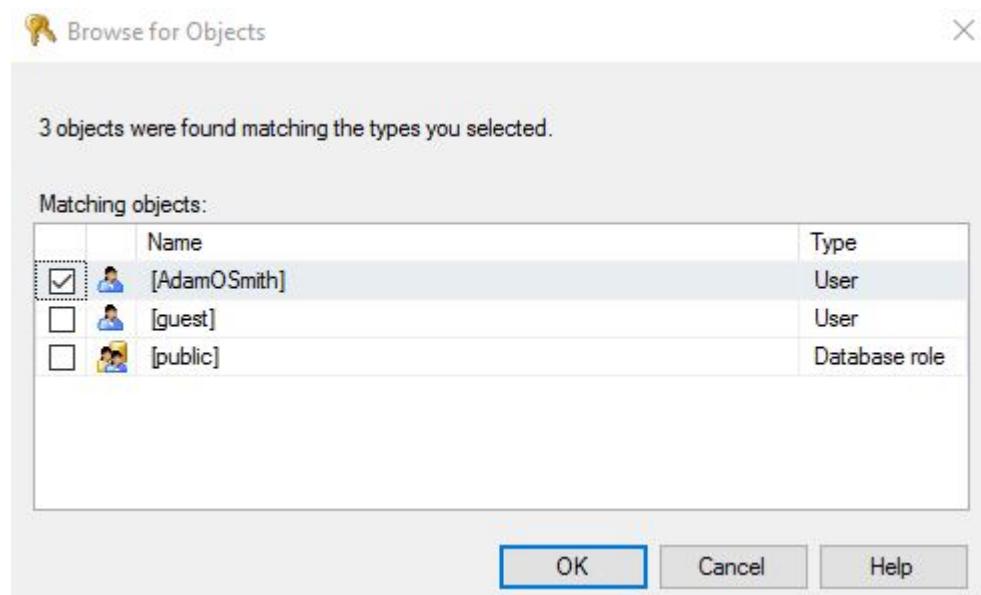
5.5.3.2 Properties

When in the properties tab click 'Permissions' then click search.



5.5.3.3 Browse for Objects

Click browse and find the name of the person you want to grant permissions, click ok.



5.5.3.4 Selecting Permissions

Now that the user has been selected you can give them permissions. Within the explicit permissions pane, select the permissions you would like the user to have. This online source going into great details about permissions (Microsoft, 2017). In this example I have given the user the right to execute the Stored Procedure.

The screenshot shows the 'Stored Procedure Properties' dialog for the stored procedure 'GetGuappoBookings'. The 'Permissions' page is selected. The 'Schema' is set to 'dbo'. The 'Stored procedure name' is 'GetGuappoBookings'. In the 'Users or roles:' list, 'AdamOSmith' is selected as a 'User'. The 'Permissions for AdamOSmith:' grid shows the following data:

Permission	Grantor	Grant	With Grant	Deny
Alter		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Execute		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take ownership		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
View definition		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

At the bottom right, there are 'OK' and 'Cancel' buttons.

6. Critical review

6.1 Purpose

The Purpose of this Critical Review is ultimately to summarise and review my creation of an SQL Server Database. It will highlight specific areas that I found difficult and how I overcome them. I will also highlight the achievements I did not manage to reach and future improvements that could be made.

6.2 Project Review

My aim for this project was to complete the whole assessment scenario, creating an error free SQL Server Database. My primary purpose for was to create a scenario then design and implement a database that would be usable within the Hair and Beauty Sector. The SQL Server Database should be able to withstand large amounts of data from Hair and Beauty Salons all over the world. It can hold all salon, customer and employee details. I can also hold a full appointment list including what hair products and equipment are needed for each. Customers and employees will be able to communicate through a build in forum. It has a built in asset management system.

Before I created the scenario I analysed if there was a need for this database within the Hair and Beauty industry. I broke this analysis down into certain sections, there are as follows:

1. Salon
2. Booking
3. Employees
4. Customers
5. Invoice
6. Forum
7. Equipment
8. Products
9. Assets

I knew that building on these nine section would turn into an exciting and quite large database.

All of the SQL Server Database was designed and developed within SQL Server Management Studio 2014. The advance implementations were completed using Visual Studio 2015.

From the outset I knew I was comfortable enough to get through this, hopefully, without hitting too many stumbling blocks. I started by drawing up a Gantt chart, this is a graph showing the timelines that I hoped to hit throughout the assessment. I hit all of my targets until I got to the advance sections, in particular the SSAS took me two weeks to complete. I found that this took the most time because I had an error that took me a while to overcome, it was an authentication error within the 'Impersonation options'. I had it as 'Inherit' or 'default'; both of which were not working for me. I then found a post on stackoverflow that said to use the details of the current user.

6.2 Achievements

As a Web Developer I have had little experience, so far in my career, dealing with databases and certainly no experience at all using any of the advance features. Following my research on this assessment criteria I felt that I would at least have the time to attempt everything listed.

The following list is what I consider to have achieved during this Advance Databases lesson, after which I shall discuss in further detail.

1. Time management
2. Deadline management
3. Researching ideas good enough for the project
4. SQL Server Database design
5. Researching and implementing views into the project
6. Researching and implementing the required advance features
7. Creating an extremely details report outlining all of the specific criteria

I will discuss both Time/Deadline management within this paragraph as I believe they are closely related. Firstly, Time management. As a part time student I sometimes struggle to find the time and motivation to do much through the week after a 7am start and a pm finish, however, I found that as it is now the ‘business end’ of my degree I find the motivation came easy. After I created the Gantt chart and created time-lines for my work I said to myself that I would stick to them. If I knew it was going to take longer than planned to do a certain task I was going to stop that task and start the next one to ensure I had the time to at least attempt everything. I found certain aspects really intriguing and enjoyable which in-turn meant I was doing a lot of work each night. Secondly, deadline management. Very simply put; I knew if I carried out all of the steps correctly regarding time management that I would ready when it came to deadline week.

I found coming up with ideas good enough for a large database really difficult. In the early stage I have three main ideas, a taxi management system, a library management system and an ice hockey league system. Upon talking with my partner, who works at a Hair dressers, I came up with the idea which I have based my assessment on and after talking with my supervisor, Mansha Nawaz, we decided that this one had the biggest scope to fulfil the assessment criteria. I believe this would also make a great final year product as it would be a ‘live project’.

To design the database I utilised SQL Server Management Studio 2014. Upon starting this lesson I was really worried because it seemed very complex, however looking back I thoroughly enjoyed it which made the design an easy part. The design of the database was complete within one week which took away all worries about the rest of the semester.

I had never used views before and did not know the real power they poses, to be able to join and get data from one table and join them to another can save the developer a lot of time. In the end I found that using the designer within the ‘New View’ pane was the simplest way to do this.

The advance features I chose to take on are SSIS, SSRS and SSAS. I knew looking into this project that if I want to take anything from it; it was going to be the advance section as these are the things the employers want to see on your CV. I feel like this is the most valuable aspect I have brought forward from this project and by at least attempting all of them without errors in my eyes is a success.

Trying to capture and document the complexing of this project is something, I believe, I can take into the final year. This document can be a refresher to look back upon to see how much detail to go into when underway with my final year project.

I can say that everything I have taken from this project I can take into my future, including the final year and my computing career. With the final year only months away this project has opened my eyes about the expectations on me as a final year student.

6.3 Non-achievements / future improvements

Upon completing the development of Database, with the deadline in sight, there are certainly some areas of the database I could strengthen, given more time.

I would redevelop the forum within my database. It works and can handle data but is not really fit for purpose as a big ‘Moodle’ style forum. To redo do it I would introduce data recursion using a threaded discussion forum. One online forum shares their insight to the importance of using data recursion (Graziano, 2001). Within a forum, a thread is group of posts. This thread will normally display the posts in chronological order. Threads can have unlimited posts by the same user. There are, of course, downsides to threads which are; ‘Thread Bumping’ and ‘Thread Stickyng’ (Wikipedia, 2011). The way I have built the current forum, a topic and a post can be created by any user but without a thread the same user could never post within any existing topic/post.

6.4 Academic Reflection

After gathering multiple ideas about Databases that would be good enough to meet the expectations set by this assignment criteria I consulted with my supervisor, Mansha Nawaz, who was quick to tell me the database I chose, Guappo Hair Design, was the best.

Quickly from there, within one week, the full database was designed in SQL Management Studio which I am very comfortable using. There were slight problems following when I came to entering the data but this was only a small problem which was easily overcome.

I decided it best practice to fully finish a section, write it up then start the next section. This process kept me in track as I knew when I was finished writing up about a section, that particular section was finished. I would them have a review at the end of the week to see if I was still on my projected guidelines.

The DDL and DML programming section I completed with ease and had no problems.

The advance features in this document were the most challenging, as expected. These challenges caused me to overrun my expected time by one week. I struggled mostly with the Data Mining section of the Analysis Services project. After some research online I was able to find why it did not work for me which is outlined within the ‘SSAS’ section above.

To conclude, I believe that my project meets the expectation of the criteria set by the University and I acknowledge the fact that with more time this could have been significantly improved. I believe that this Advance Database module has been the most valuable to my current learning which will stand me in good stead in the future.

I think a big goal of mine within this project was to at least try everything listed on the specification sheet, I have not only done that but I have managed to finish everything, error free!

6.5 Conclusion

I believe that although I have acknowledged a few points that could have made my database project stronger, what I have completed within this 17 week assignment is a really big accomplishment. From starting the project thinking of ideas for a database to writing the critical review, it has been fascinating seeing the whole project grow and I am certain I will take all the skills from this into my future.

6.6 Student Marking Sheet

This is my student marking sheet, I shall mark myself out of 100% for the four sections listed within the table below.

Section	Mark	Reasoning
Task A - Report	1 st	I put a lot of effort in keeping the flow and presentation of the document to an excellent standard. Since it was going to be a large document thought it best to dedicate an allotted time per week in keeping the document to the high standard set by myself. I believe that screen shotting even the most simple steps make my 'walk-throughs' more valuable than most.
Task B - Database Design	1 st	Although I have given myself a first for the design, I believe it could have been a lot higher within the first category. I explain, within this critical review, what I could have done to improve it; In particular to improve the forum side of the database.
Task C - Implementation	1 st	I believe I have exceeded the expectations set within the specification. I have shown great understanding of the programming codes needed. I also believe that I have met the criteria for providing sufficient evidence for the data entry side of the implementation section.
Task D - Advance Features	1 st	From the outset I was at least going to attempt all of the advanced features. Having kept to my project plan I found that I had sufficient time to fully complete all of the advance features which fully deployed with no errors.

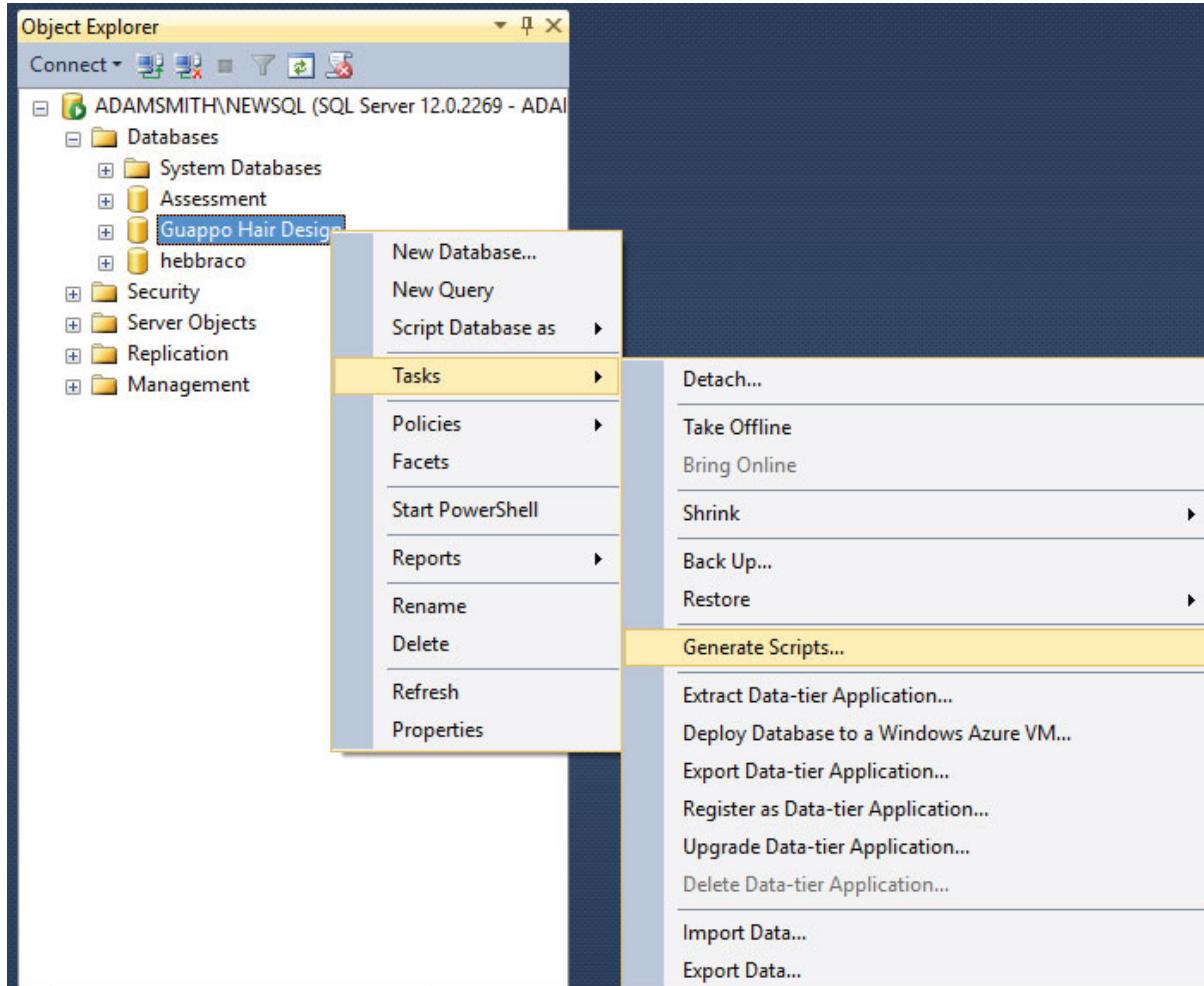
7. Appendix

7.1 Generating Scripts

This will be a quick guide in how to extract your database scripts.

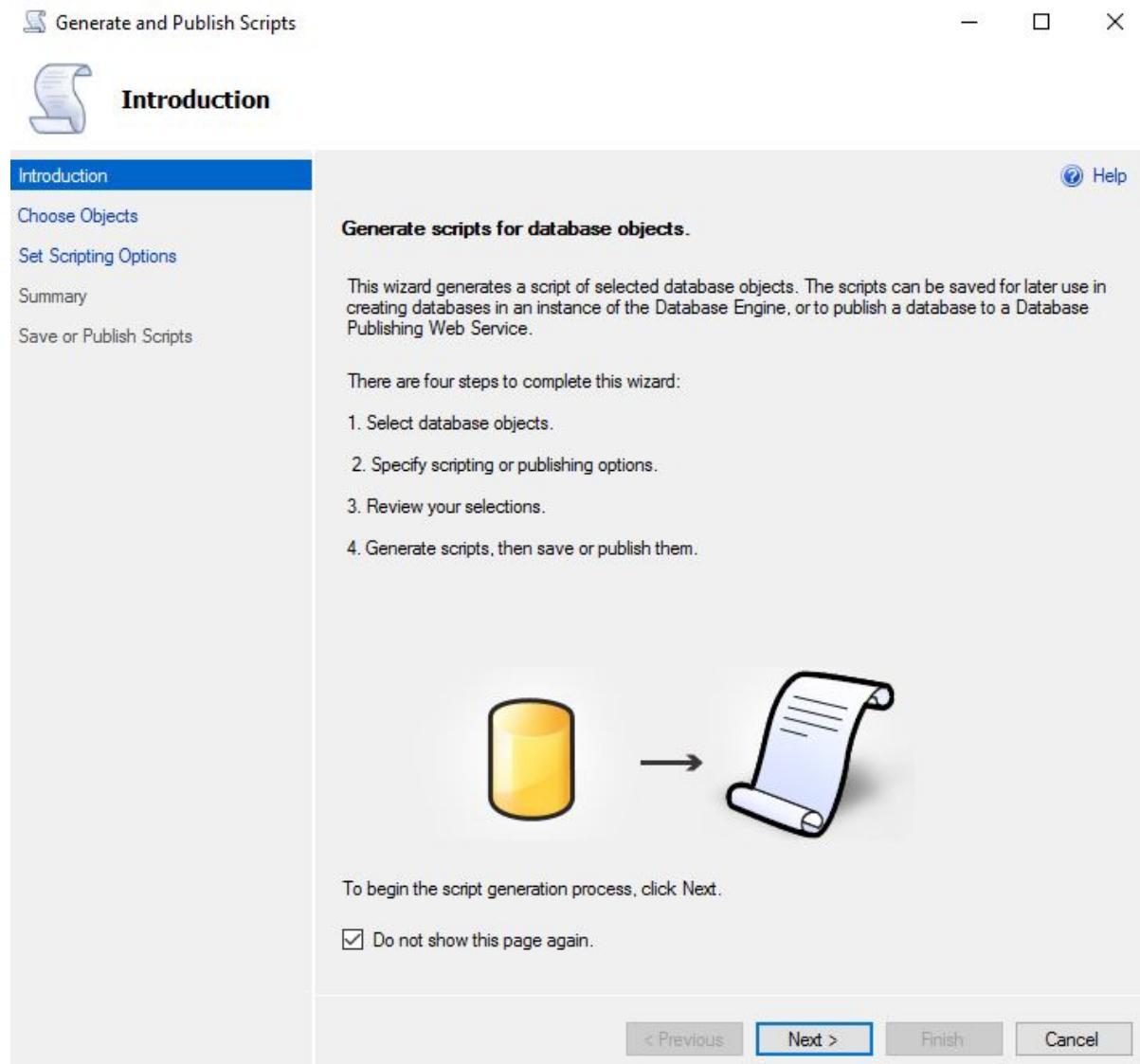
7.1.1 Object Explorer

Within the Object Explorer, right-click your database, click tasks and select 'Generate Scripts'.



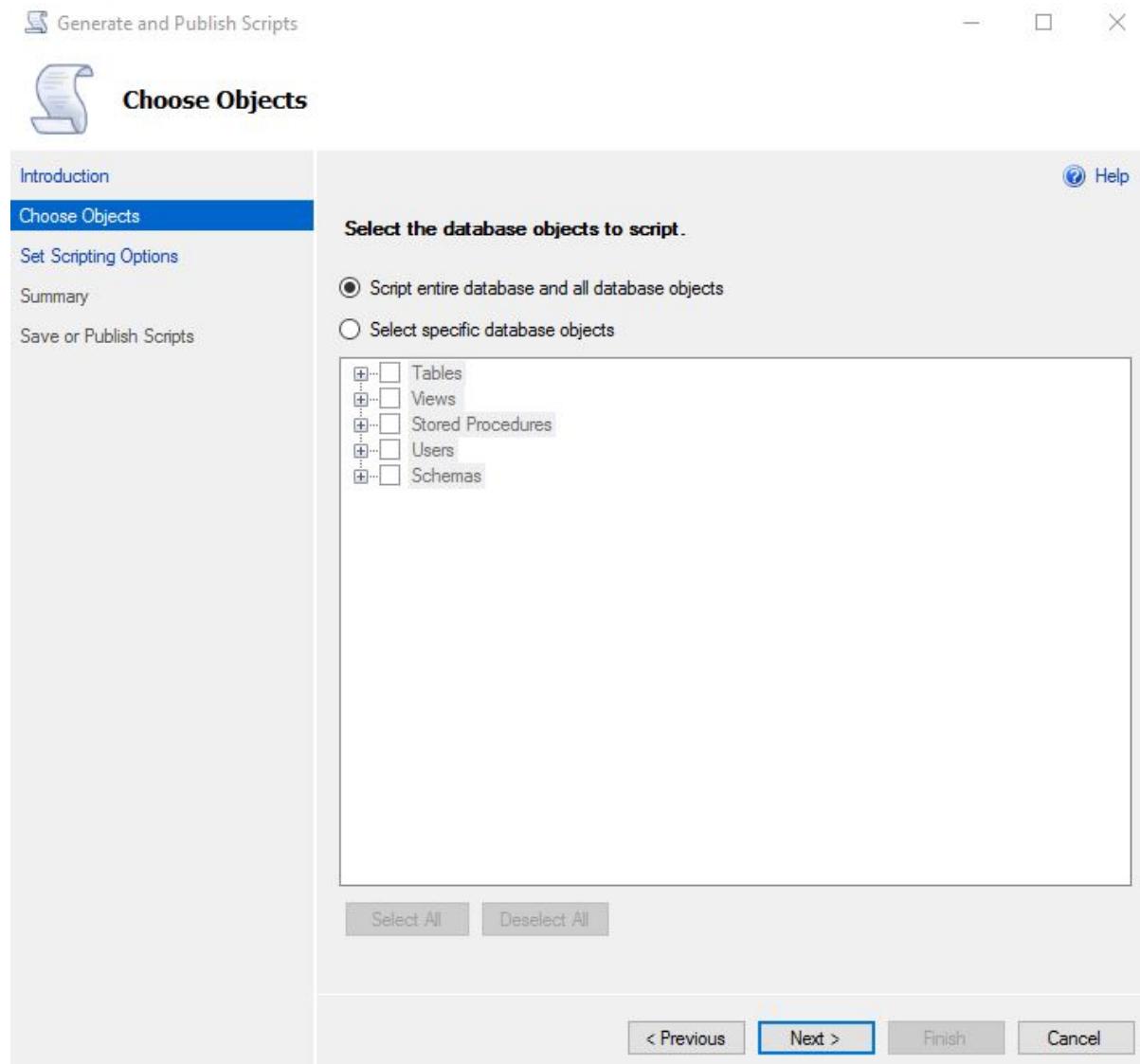
7.1.2 Introduction Page

The introduction page is simply letting you know what will happen throughout the script generating process. Tick the 'Do not show this page again' option. Click next.



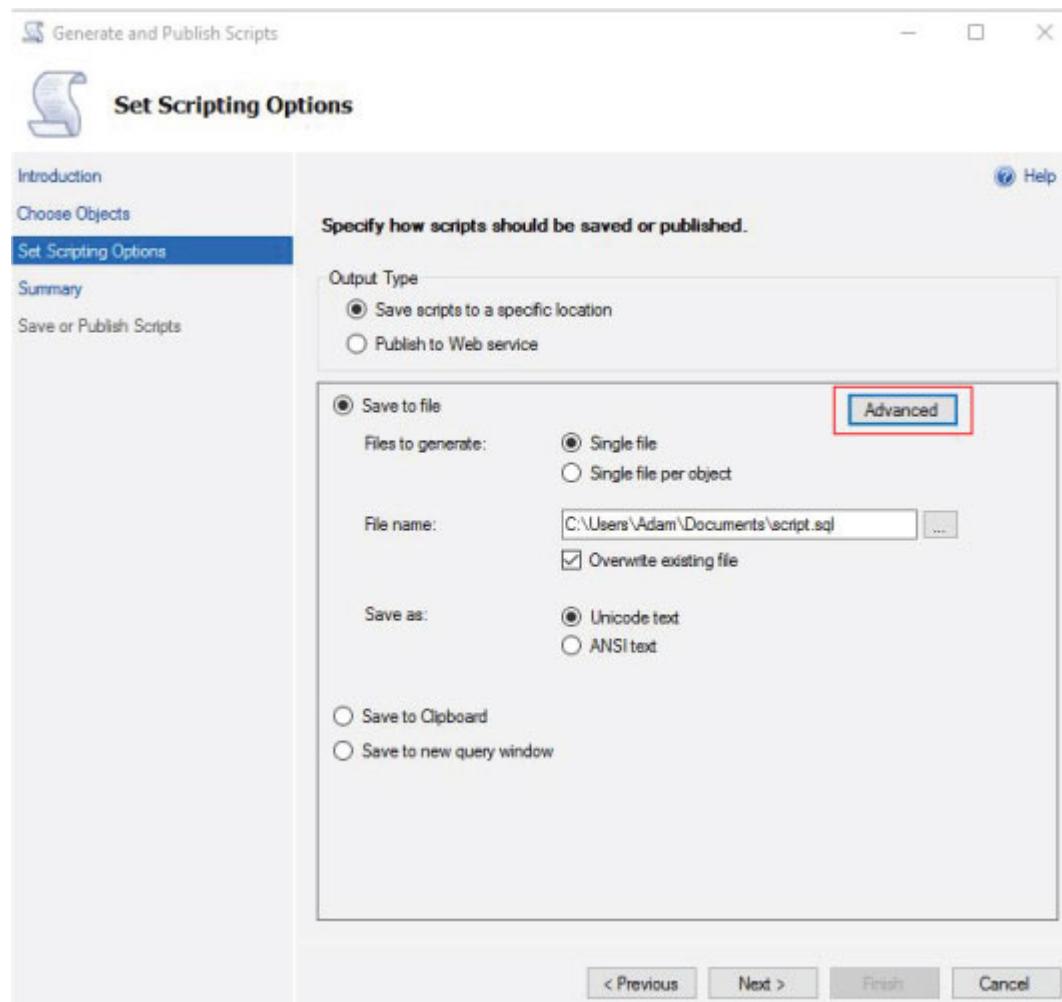
7.1.3 Choose Objects

Since I want the entire data base with all objects that is what I've selected. You can select specific objects if you choose. Click next.



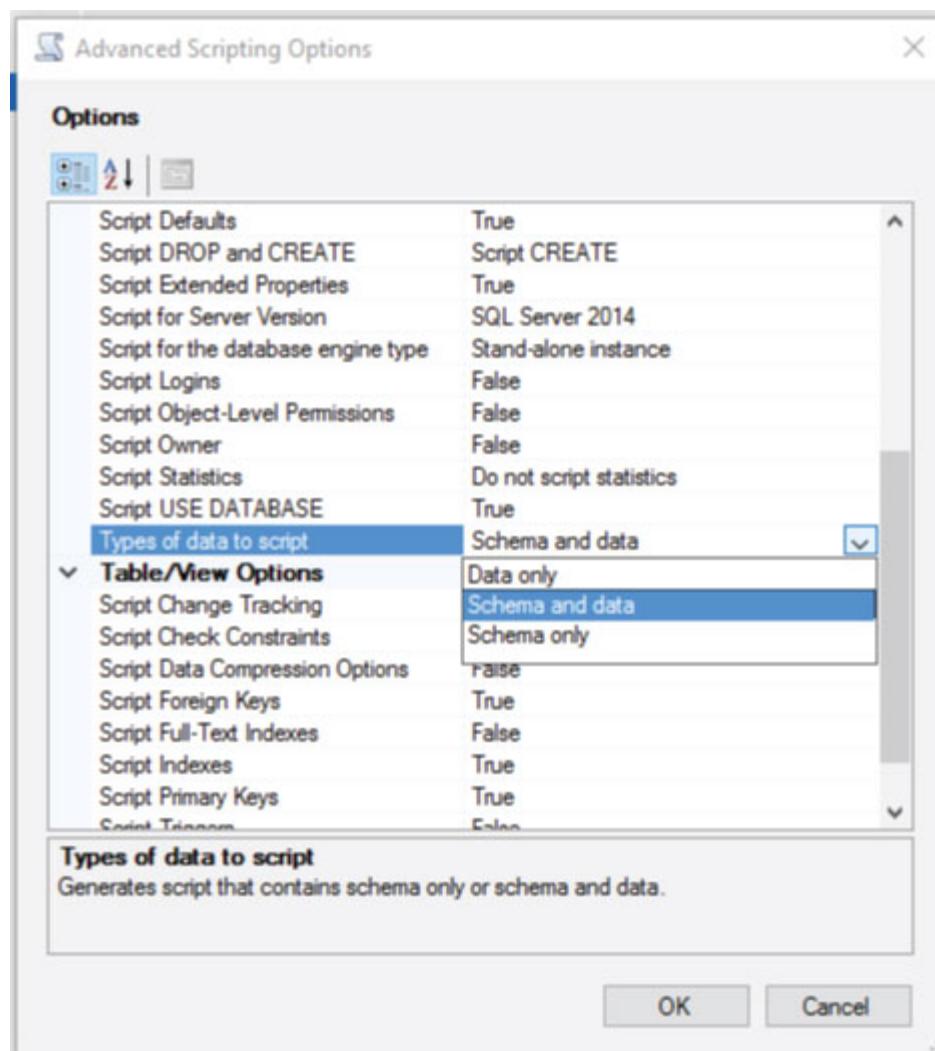
7.1.4 Set Scripting Objects

Since we want to edit some advance features, click advanced.



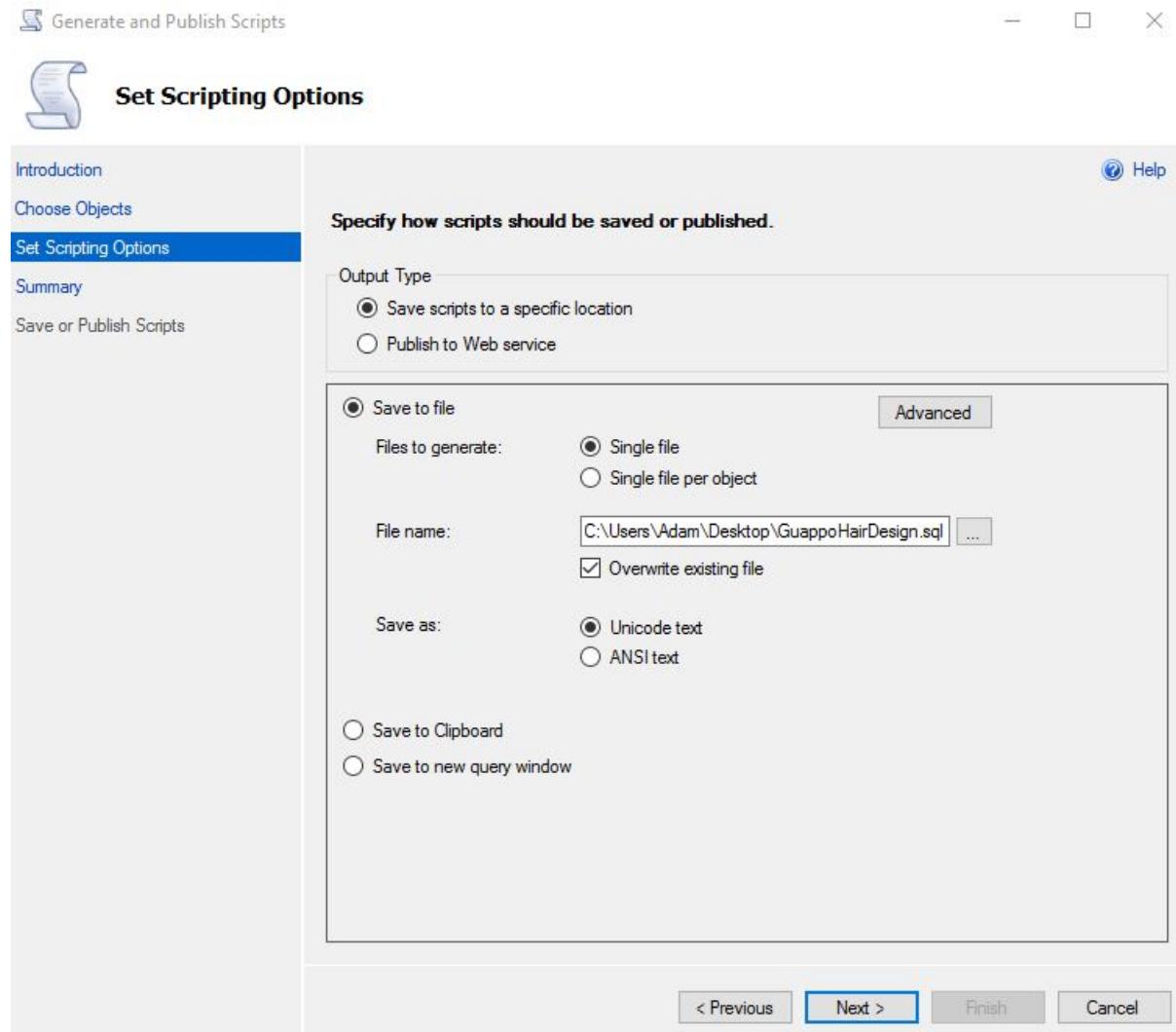
7.1.5 Advance Scripting Options

Scroll down until you find the 'Types of data to script' option, click it and it will show a drop down menu. Since we want the database and all the data in it, select 'Schema and Data'. Click ok.



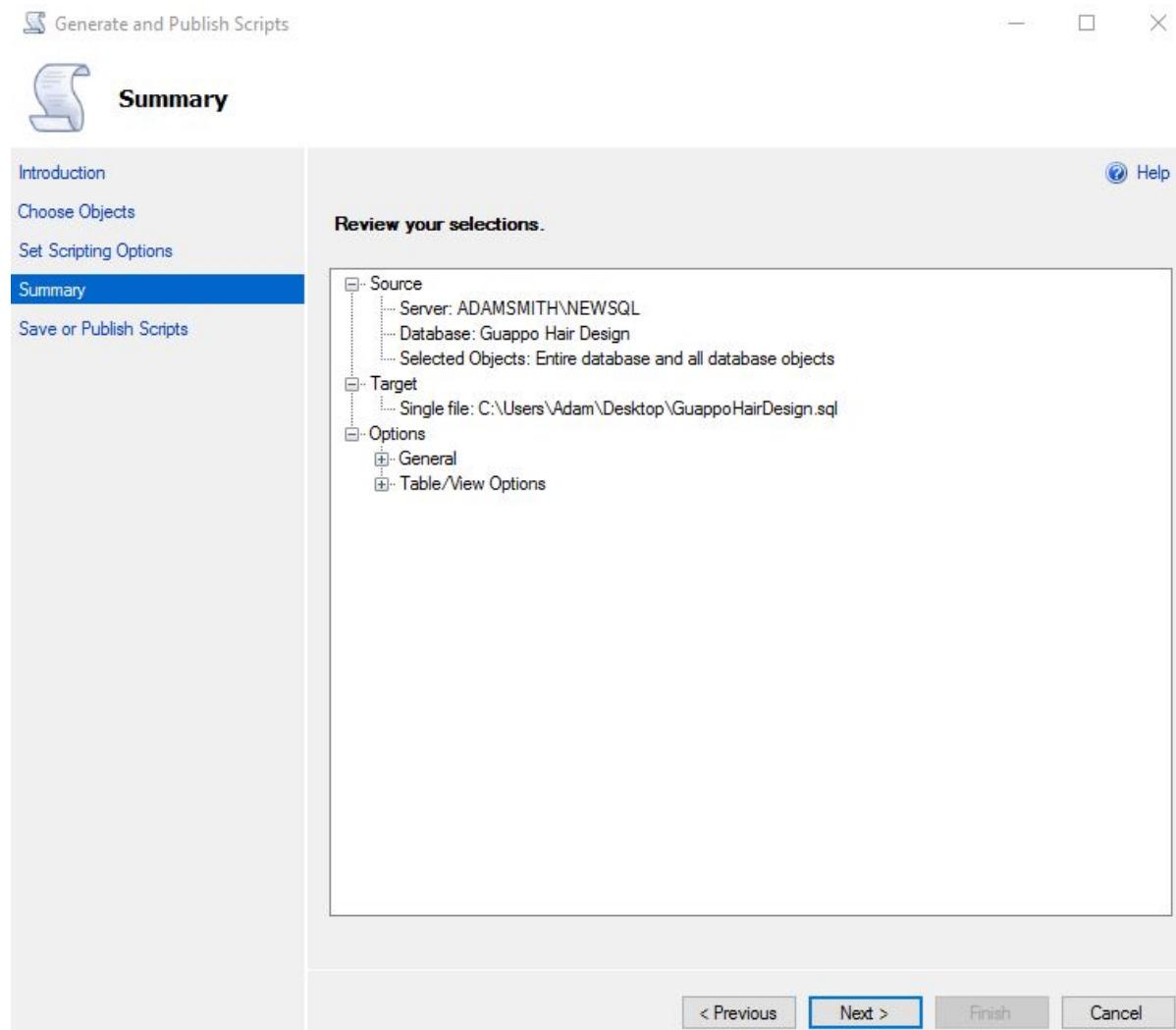
7.1.6 File Name

Give the file an appropriate name and give it a place to be saved. Click next.



7.1.7 Review your selections

Review your selection and click next.



7.1.8 Saving Scripts

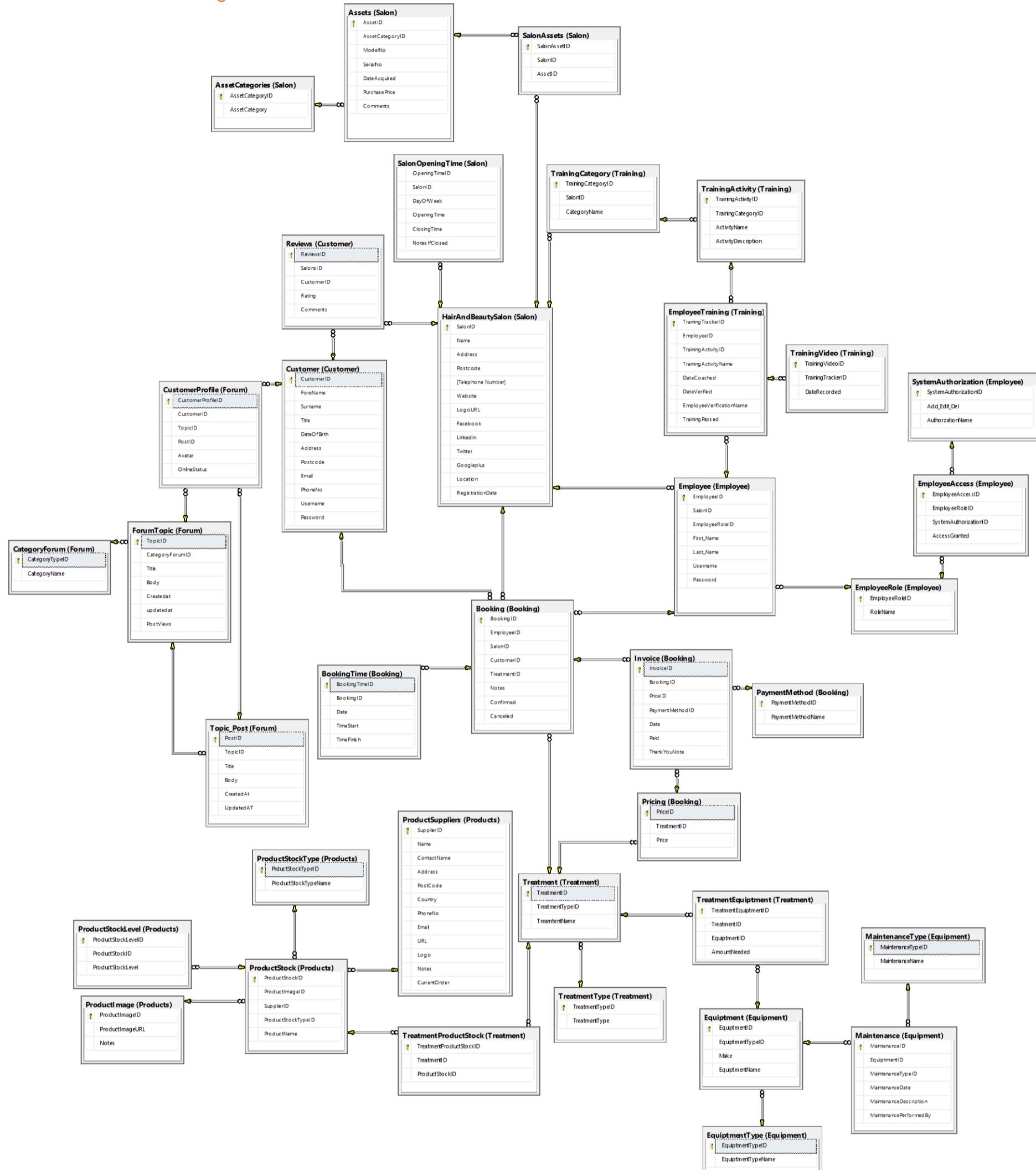
Make sure that all of your objects have saved successfully, click finish.

The screenshot shows a software interface titled "Save or Publish Scripts". On the left, a vertical navigation bar lists "Introduction", "Choose Objects", "Set Scripting Options", "Summary", and "Save or Publish Scripts", with "Save or Publish Scripts" being the active tab. The main area contains a table titled "Saving or publishing scripts." with two columns: "Action" and "Result". The table lists 16 actions, all of which have a green checkmark and the word "Success" in the "Result" column. The actions include: Getting the list of objects from 'Guappo Hair Design', Preparing Guappo Hair Design, Preparing AdamOSmith, Preparing Booking, Preparing Customer, Preparing Employee, Preparing Equipment, Preparing Forum, Preparing Maintenance, Preparing Products, Preparing Salon, Preparing Training, Preparing Treatment, Preparing Booking.Booking, Preparing Booking.BookingTime, and Preparing Booking.Invoice. At the bottom right of the main area are buttons for "Save Report", "Finish", and "Cancel". Navigation buttons "< Previous" and "Next >" are also present at the bottom.

Action	Result
Getting the list of objects from 'Guappo Hair Design'.	Success
Preparing Guappo Hair Design	Success
Preparing AdamOSmith	Success
Preparing Booking	Success
Preparing Customer	Success
Preparing Employee	Success
Preparing Equipment	Success
Preparing Forum	Success
Preparing Maintenance	Success
Preparing Products	Success
Preparing Salon	Success
Preparing Training	Success
Preparing Treatment	Success
Preparing Booking.Booking	Success
Preparing Booking.BookingTime	Success
Preparing Booking.Invoice	Success

7.2 Different Database Design views

7.2.1 Column name design view



7.2.2 Table Name Design View



7.3 Database Scripts

I used two databases within this project; ‘Guappo Hair Design’ which was used for the design and implementation and ‘Assessment’ which was used for the SSIS, some DML and DDL queries.

7.3.1 Guappo Hair Design Database – Full

USE [master]

GO

```
***** Object: Database [Guappo Hair Design] Script Date: 12/05/2017 21:58:05 *****
```

CREATE DATABASE [Guappo Hair Design]

CONTAINMENT = NONE

ON PRIMARY

(NAME = N'Guappo Hair Design', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL12.NEWSQL\MSSQL\DATA\Guappo Hair Design.mdf' , SIZE = 5120KB , MAXSIZE = UNLIMITED,
FILEGROWTH = 1024KB)

LOG ON

(NAME = N'Guappo Hair Design_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL12.NEWSQL\MSSQL\DATA\Guappo Hair Design_log.ldf' , SIZE = 2048KB , MAXSIZE = 2048GB ,
FILEGROWTH = 10%)

GO

ALTER DATABASE [Guappo Hair Design] SET COMPATIBILITY_LEVEL = 120

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [Guappo Hair Design].[dbo].[sp_fulltext_database] @action = 'enable'

end

GO

ALTER DATABASE [Guappo Hair Design] SET ANSI_NULL_DEFAULT OFF

GO

ALTER DATABASE [Guappo Hair Design] SET ANSI_NULLS OFF

GO

ALTER DATABASE [Guappo Hair Design] SET ANSI_PADDING OFF

GO

ALTER DATABASE [Guappo Hair Design] SET ANSI_WARNINGS OFF

GO

Adam Smith

[n3276931]

ALTER DATABASE [Guappo Hair Design] SET ARITHABORT OFF

GO

ALTER DATABASE [Guappo Hair Design] SET AUTO_CLOSE OFF

GO

ALTER DATABASE [Guappo Hair Design] SET AUTO_SHRINK OFF

GO

ALTER DATABASE [Guappo Hair Design] SET AUTO_UPDATE_STATISTICS ON

GO

ALTER DATABASE [Guappo Hair Design] SET CURSOR_CLOSE_ON_COMMIT OFF

GO

ALTER DATABASE [Guappo Hair Design] SET CURSOR_DEFAULT GLOBAL

GO

ALTER DATABASE [Guappo Hair Design] SET CONCAT_NULL_YIELDS_NULL OFF

GO

ALTER DATABASE [Guappo Hair Design] SET NUMERIC_ROUNDABORT OFF

GO

ALTER DATABASE [Guappo Hair Design] SET QUOTED_IDENTIFIER OFF

GO

ALTER DATABASE [Guappo Hair Design] SET RECURSIVE_TRIGGERS OFF

GO

ALTER DATABASE [Guappo Hair Design] SET DISABLE_BROKER

GO

ALTER DATABASE [Guappo Hair Design] SET AUTO_UPDATE_STATISTICS_ASYNC OFF

GO

ALTER DATABASE [Guappo Hair Design] SET DATE_CORRELATION_OPTIMIZATION OFF

GO

ALTER DATABASE [Guappo Hair Design] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [Guappo Hair Design] SET ALLOW_SNAPSHOT_ISOLATION OFF

GO

ALTER DATABASE [Guappo Hair Design] SET PARAMETERIZATION SIMPLE

GO

Adam Smith

[n3276931]

ALTER DATABASE [Guappo Hair Design] SET READ_COMMITTED_SNAPSHOT OFF

GO

ALTER DATABASE [Guappo Hair Design] SET HONOR_BROKER_PRIORITY OFF

GO

ALTER DATABASE [Guappo Hair Design] SET RECOVERY SIMPLE

GO

ALTER DATABASE [Guappo Hair Design] SET MULTI_USER

GO

ALTER DATABASE [Guappo Hair Design] SET PAGE_VERIFY CHECKSUM

GO

ALTER DATABASE [Guappo Hair Design] SET DB_CHAINING OFF

GO

ALTER DATABASE [Guappo Hair Design] SET FILESTREAM(NON_TRANSACTED_ACCESS = OFF)

GO

ALTER DATABASE [Guappo Hair Design] SET TARGET_RECOVERY_TIME = 0 SECONDS

GO

ALTER DATABASE [Guappo Hair Design] SET DELAYED_DURABILITY = DISABLED

GO

USE [Guappo Hair Design]

GO

***** Object: User [AdamOSmith] Script Date: 12/05/2017 21:58:06 *****

CREATE USER [AdamOSmith] FOR LOGIN [BUILTIN\Users] WITH DEFAULT_SCHEMA=[Products]

GO

***** Object: Schema [Booking] Script Date: 12/05/2017 21:58:06 *****

CREATE SCHEMA [Booking]

GO

***** Object: Schema [Customer] Script Date: 12/05/2017 21:58:06 *****

CREATE SCHEMA [Customer]

GO

***** Object: Schema [Employee] Script Date: 12/05/2017 21:58:06 *****

CREATE SCHEMA [Employee]

GO

Adam Smith [n3276931]

***** Object: Schema [Equipment] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Equipment]

GO

***** Object: Schema [Forum] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Forum]

GO

***** Object: Schema [Maintenance] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Maintenance]

GO

***** Object: Schema [Products] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Products]

GO

***** Object: Schema [Salon] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Salon]

GO

***** Object: Schema [Training] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Training]

GO

***** Object: Schema [Treatment] Script Date: 12/05/2017 21:58:06 *****/

CREATE SCHEMA [Treatment]

GO

***** Object: Table [Booking].[Booking] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Booking].[Booking](

 [BookingID] [int] NOT NULL,

 [EmployeeID] [int] NOT NULL,

 [SalonID] [int] NOT NULL,

 [CustomerID] [int] NOT NULL,

 [TreatmentID] [int] NOT NULL,

Adam Smith [n3276931]
 [Notes] [nvarchar](max) NULL,
 [Confirmed] [bit] NOT NULL,
 [Cancelled] [bit] NOT NULL,

CONSTRAINT [PK_Booking] PRIMARY KEY CLUSTERED
 (
 [BookingID] ASC
) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]

GO

***** Object: Table [Booking].[BookingTime] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Booking].[BookingTime](

[BookingTimeID] [int] NOT NULL,
 [BookingID] [int] NOT NULL,
 [Date] [date] NOT NULL,
 [TimeStart] [time](7) NOT NULL,
 [TimeFinish] [time](7) NOT NULL,

CONSTRAINT [PK_BookingTime] PRIMARY KEY CLUSTERED
 (
 [BookingTimeID] ASC
) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Booking].[Invoice] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

Adam Smith
GO

[n3276931]

```
CREATE TABLE [Booking].[Invoice]{
    [InvoiceID] [int] NOT NULL,
    [BookingID] [int] NOT NULL,
    [PriceID] [int] NOT NULL,
    [PaymentMethodID] [int] NOT NULL,
    [Date] [datetime] NOT NULL,
    [Paid] [bit] NOT NULL,
    [ThankYouNote] [nvarchar](20) NULL,
}
```

CONSTRAINT [PK_Invoice] PRIMARY KEY CLUSTERED

(

```
    [InvoiceID] ASC
```

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Booking].[PaymentMethod] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

```
CREATE TABLE [Booking].[PaymentMethod]{

```

```
    [PaymentMethodID] [int] NOT NULL,
    [PaymentMethodName] [nvarchar](25) NOT NULL,
```

CONSTRAINT [PK_PaymentMethod] PRIMARY KEY CLUSTERED

(

```
    [PaymentMethodID] ASC
```

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Booking].[Pricing] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

Adam Smith
GO

[n3276931]

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Booking].[Pricing](

 [PricelD] [int] NOT NULL,
 [TreatmentID] [int] NOT NULL,
 [Price] [nvarchar](50) NOT NULL,

CONSTRAINT [PK_Pricing] PRIMARY KEY CLUSTERED

(

 [PricelD] ASC

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Customer].[Customer] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Customer].[Customer](

 [CustomerID] [int] NOT NULL,
 [ForeName] [nvarchar](50) NOT NULL,
 [Surname] [nvarchar](50) NOT NULL,
 [Title] [nvarchar](50) NULL,
 [DateOfBirth] [datetime] NOT NULL,
 [Address] [nvarchar](max) NOT NULL,
 [Postcode] [nvarchar](10) NOT NULL,
 [Email] [nvarchar](max) NOT NULL,
 [PhoneNo] [nvarchar](50) NOT NULL,
 [Username] [nvarchar](20) NOT NULL,
 [Password] [nvarchar](20) NOT NULL,

CONSTRAINT [PK_Customer] PRIMARY KEY CLUSTERED

(

```
[CustomerID] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
```

```
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
```

```
GO
```

```
***** Object: Table [Customer].[Reviews] Script Date: 12/05/2017 21:58:06 *****
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [Customer].[Reviews](
```

```
    [ReviewsID] [int] NOT NULL,
```

```
    [SalonsID] [int] NOT NULL,
```

```
    [CustomerID] [int] NOT NULL,
```

```
    [Rating] [int] NOT NULL,
```

```
    [Comments] [nvarchar](max) NOT NULL,
```

```
CONSTRAINT [PK_Reviews] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [ReviewsID] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
```

```
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
```

```
GO
```

```
***** Object: Table [dbo].[NewTable] Script Date: 12/05/2017 21:58:06 *****
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[NewTable](
```

```
    [Title] [nvarchar](50) NULL
```

```
) ON [PRIMARY]
```

```
GO
```

Adam Smith [n3276931]
***** Object: Table [dbo].[NewTable2] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[NewTable2](
 [Title] [nvarchar](50) NULL
) ON [PRIMARY]
GO
***** Object: Table [dbo].[SalonAssets] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[SalonAssets](
 [SalonAssetID] [int] NOT NULL,
 [SalonID] [int] NOT NULL,
 [AssetID] [int] NOT NULL,
CONSTRAINT [PK_SalonAssets] PRIMARY KEY CLUSTERED
(
 [SalonAssetID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
***** Object: Table [Employee].[Employee] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Employee].[Employee](
 [EmployeeID] [int] NOT NULL,
 [SalonID] [int] NOT NULL,

Adam Smith [n3276931]
[EmployeeRoleID] [int] NOT NULL,
[First_Name] [nvarchar](max) NOT NULL,
[Last_Name] [nvarchar](max) NOT NULL,
[Username] [nvarchar](20) NOT NULL,
[Password] [nvarchar](20) NOT NULL,
CONSTRAINT [PK_Employee] PRIMARY KEY CLUSTERED
(
[EmployeeID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
***** Object: Table [Employee].[EmployeeAccess] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Employee].[EmployeeAccess](
[EmployeeAccessID] [int] NOT NULL,
[EmployeeRoleID] [int] NOT NULL,
[SystemAuthorizationID] [int] NOT NULL,
[AccessGranted] [bit] NOT NULL,
CONSTRAINT [PK_EmployeeAccess] PRIMARY KEY CLUSTERED
(
[EmployeeAccessID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
***** Object: Table [Employee].[EmployeeRole] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON

Adam Smith
GO

[n3276931]

```
CREATE TABLE [Employee].[EmployeeRole](
    [EmployeeRoleID] [int] NOT NULL,
    [RoleName] [nvarchar](30) NOT NULL,
    CONSTRAINT [PK_EmployeeRole] PRIMARY KEY CLUSTERED
(
    [EmployeeRoleID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

/******** Object: Table [Employee].[SystemAuthorization]  Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Employee].[SystemAuthorization](
    [SystemAuthorizationID] [int] NOT NULL,
    [Add_Edit_Del] [nvarchar](50) NOT NULL,
    [AuthorizationName] [nvarchar](50) NOT NULL,
    CONSTRAINT [PK_SystemAuthorization] PRIMARY KEY CLUSTERED
(
    [SystemAuthorizationID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

/******** Object: Table [Equipment].[Equiptment]  Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Equipment].[Equiptment](
```

Adam Smith [n3276931]

```
[EquiptmentID] [int] NOT NULL,
[EquiptmentTypeID] [int] NOT NULL,
[Make] [nvarchar](50) NOT NULL,
[EquiptmentName] [nvarchar](50) NOT NULL,
CONSTRAINT [PK_Equiptment] PRIMARY KEY CLUSTERED
(
    [EquiptmentID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

***** Object: Table [Equipment].[EquiptmentType] Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Equipment].[EquiptmentType](
    [EquiptmentTypeID] [int] NOT NULL,
    [EquiptmentTypeName] [nvarchar](50) NOT NULL,
CONSTRAINT [PK_EquiptmentType] PRIMARY KEY CLUSTERED
(
    [EquiptmentTypeID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

***** Object: Table [Equipment].[Maintenance] Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Equipment].[Maintenance](
    [MaintenanceID] [int] NOT NULL,
```

Adam Smith [n3276931]
[EquipmentID] [int] NOT NULL,
[MaintenanceTypeID] [int] NOT NULL,
[MaintenanceDate] [datetime] NOT NULL,
[MaintenanceDescription] [nvarchar](max) NOT NULL,
[MaintenancePerformedBy] [nvarchar](50) NOT NULL,
CONSTRAINT [PK_Maintenance] PRIMARY KEY CLUSTERED
(
[MaintenanceID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
***** Object: Table [Equipment].[MaintenanceType] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Equipment].[MaintenanceType](
[MaintenanceTypeID] [int] NOT NULL,
[MaintenanceName] [nvarchar](max) NOT NULL,
CONSTRAINT [PK_MaintenanceType] PRIMARY KEY CLUSTERED
(
[MaintenanceTypeID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
***** Object: Table [Forum].[CategoryForum] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Forum].[CategoryForum](

Adam Smith [n3276931]

```

[CategoryTypeID] [int] NOT NULL,
[CategoryName] [nvarchar](max) NOT NULL,
CONSTRAINT [PK_CategoryType] PRIMARY KEY CLUSTERED
(
    [CategoryTypeID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
***** Object: Table [Forum].[CustomerProfile] Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Forum].[CustomerProfile](
    [CustomerProfileID] [int] NOT NULL,
    [CustomerID] [int] NOT NULL,
    [TopicID] [int] NULL,
    [PostID] [int] NULL,
    [Avatar] [image] NULL,
    [OnlineStatus] [bit] NOT NULL,
CONSTRAINT [PK_CustomerProfile] PRIMARY KEY CLUSTERED
(
    [CustomerProfileID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
***** Object: Table [Forum].[ForumTopic] Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

```
CREATE TABLE [Forum].[ForumTopic](
```

```
    [TopicID] [int] NOT NULL,  
    [CategoryForumID] [int] NOT NULL,  
    [Title] [nvarchar](50) NOT NULL,  
    [Body] [nvarchar](max) NOT NULL,  
    [Createdat] [datetime] NOT NULL,  
    [updatedat] [datetime] NULL,  
    [PostViews] [int] NULL,
```

```
CONSTRAINT [PK_ForumTopic] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [TopicID] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
```

```
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
```

```
GO
```

```
***** Object: Table [Forum].[Topic_Post]  Script Date: 12/05/2017 21:58:06 *****
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [Forum].[Topic_Post](
```

```
    [PostID] [int] NOT NULL,  
    [TopicID] [int] NULL,  
    [Title] [nvarchar](max) NOT NULL,  
    [Body] [nvarchar](max) NOT NULL,  
    [CreatedAt] [datetime] NOT NULL,  
    [UpdatedAT] [datetime] NOT NULL,
```

```
CONSTRAINT [PK_Topic_Post] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [PostID] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
```

```
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
```

GO

***** Object: Table [Products].[ProductImage] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Products].[ProductImage](

[ProductImageID] [int] NOT NULL,

[ProductImageURL] [nvarchar](max) NOT NULL,

[Notes] [nvarchar](max) NOT NULL,

CONSTRAINT [PK_ProductImage] PRIMARY KEY CLUSTERED

(

[ProductImageID] ASC

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]

GO

***** Object: Table [Products].[ProductStock] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Products].[ProductStock](

[ProductStockID] [int] NOT NULL,

[ProductImageID] [int] NOT NULL,

[SupplierID] [int] NOT NULL,

[ProductStockTypeID] [int] NOT NULL,

[ProductName] [nvarchar](50) NOT NULL,

CONSTRAINT [PK_Stock] PRIMARY KEY CLUSTERED

(

[ProductStockID] ASC

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

Adam Smith [n3276931]
) ON [PRIMARY]

GO

***** Object: Table [Products].[ProductStockLevel] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Products].[ProductStockLevel](
 [ProductStockLevelID] [int] NOT NULL,
 [ProductStockID] [int] NOT NULL,
 [ProductStockLevel] [int] NOT NULL,
 CONSTRAINT [PK_ProductStockLevel] PRIMARY KEY CLUSTERED
(
 [ProductStockLevelID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

***** Object: Table [Products].[ProductStockType] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Products].[ProductStockType](
 [PrductStockTypeID] [int] NOT NULL,
 [ProductStockTypeName] [nvarchar](50) NOT NULL,
 CONSTRAINT [PK_StockType] PRIMARY KEY CLUSTERED
(
 [PrductStockTypeID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

Adam Smith [n3276931]
GO

***** Object: Table [Products].[ProductSuppliers] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [Products].[ProductSuppliers](
 [SupplierID] [int] NOT NULL,
 [Name] [nvarchar](50) NOT NULL,
 [ContactName] [nvarchar](50) NOT NULL,
 [Address] [nvarchar](50) NOT NULL,
 [PostCode] [nvarchar](50) NOT NULL,
 [Country] [nvarchar](50) NOT NULL,
 [PhoneNo] [nvarchar](50) NOT NULL,
 [Email] [nvarchar](50) NOT NULL,
 [URL] [nvarchar](max) NULL,
 [Logo] [nvarchar](max) NULL,
 [Notes] [nvarchar](max) NULL,
 [CurrentOrder] [nvarchar](50) NOT NULL,
 CONSTRAINT [PK_ProductSuppliers] PRIMARY KEY CLUSTERED
(
 [SupplierID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]

GO

***** Object: Table [Salon].[AssetCategories] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [Salon].[AssetCategories](
 [AssetCategoryID] [int] NOT NULL,

Adam Smith [n3276931]

```

[AssetCategory] [nvarchar](50) NOT NULL,
CONSTRAINT [PK_AssetCategories] PRIMARY KEY CLUSTERED
(
    [AssetCategoryID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

/****** Object: Table [Salon].[Assets] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Salon].[Assets](
    [AssetID] [int] NOT NULL,
    [AssetCategoryID] [int] NOT NULL,
    [ModelNo] [nvarchar](20) NOT NULL,
    [SerialNo] [nvarchar](20) NOT NULL,
    [DateAcquired] [datetime] NOT NULL,
    [PurchasePrice] [nvarchar](50) NOT NULL,
    [Comments] [nvarchar](50) NULL,
CONSTRAINT [PK_Assets] PRIMARY KEY CLUSTERED
(
    [AssetID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

/****** Object: Table [Salon].[HairAndBeautySalon] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

```
CREATE TABLE [Salon].[HairAndBeautySalon]()

    [SalonID] [int] NOT NULL,
    [Name] [nvarchar](max) NOT NULL,
    [Address] [nvarchar](max) NOT NULL,
    [Postcode] [nvarchar](max) NOT NULL,
    [Telephone Number] [nvarchar](max) NOT NULL,
    [Website] [nvarchar](max) NULL,
    [LogoURL] [nvarchar](max) NULL,
    [Facebook] [nvarchar](max) NULL,
    [Linkedin] [nvarchar](max) NULL,
    [Twitter] [nvarchar](max) NULL,
    [Googleplus] [nvarchar](max) NULL,
    [Location] [geography] NULL,
    [RegistrationDate] [datetime] NOT NULL,
```

```
CONSTRAINT [PK_Salon] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [SalonID] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
```

```
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
```

```
GO
```

```
***** Object: Table [Salon].[SalonAssets] Script Date: 12/05/2017 21:58:06 *****
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [Salon].[SalonAssets]()
```

```
    [SalonAssetID] [int] NOT NULL,
    [SalonID] [int] NOT NULL,
    [AssetID] [int] NOT NULL,
```

```
CONSTRAINT [PK_SalonAssets_1] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [SalonAssetID] ASC
```

Adam Smith [n3276931]
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
***** Object: Table [Salon].[SalonOpeningTime] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Salon].[SalonOpeningTime](
 [OpeningTimeID] [int] NOT NULL,
 [SalonID] [int] NOT NULL,
 [DayOfWeek] [nvarchar](50) NOT NULL,
 [OpeningTime] [time](7) NOT NULL,
 [ClosingTime] [time](7) NOT NULL,
 [NotesIfClosed] [nvarchar](50) NULL
) ON [PRIMARY]
GO
***** Object: Table [Training].[EmployeeTraining] Script Date: 12/05/2017 21:58:06 *****
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [Training].[EmployeeTraining](
 [TrainingTrackerID] [int] NOT NULL,
 [EmployeeID] [int] NOT NULL,
 [TrainingActivityID] [int] NOT NULL,
 [TrainingActivityName] [nvarchar](max) NOT NULL,
 [DateCoached] [datetime] NOT NULL,
 [DateVerified] [datetime] NULL,
 [EmployeeVerificationName] [nvarchar](50) NOT NULL,
 [TrainingPassed] [bit] NULL,
CONSTRAINT [PK_TrainingTracker] PRIMARY KEY CLUSTERED

```
(  
    [TrainingTrackerID] ASC  
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]  
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]  
GO  
***** Object: Table [Training].[TrainingActivity]  Script Date: 12/05/2017 21:58:06 *****/  
SET ANSI_NULLS ON  
GO  
SET QUOTED_IDENTIFIER ON  
GO  
CREATE TABLE [Training].[TrainingActivity](  
    [TrainingActivityID] [int] NOT NULL,  
    [TrainingCategoryID] [int] NOT NULL,  
    [ActivityName] [nvarchar](max) NOT NULL,  
    [ActivityDescription] [nvarchar](max) NOT NULL,  
CONSTRAINT [PK_TrainingActivity] PRIMARY KEY CLUSTERED  
(  
    [TrainingActivityID] ASC  
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]  
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]  
GO  
***** Object: Table [Training].[TrainingCategory]  Script Date: 12/05/2017 21:58:06 *****/  
SET ANSI_NULLS ON  
GO  
SET QUOTED_IDENTIFIER ON  
GO  
CREATE TABLE [Training].[TrainingCategory](  
    [TrainingCategoryID] [int] NOT NULL,  
    [SalonID] [int] NOT NULL,  
    [CategoryName] [nvarchar](50) NOT NULL,  
CONSTRAINT [PK_TrainingCategory] PRIMARY KEY CLUSTERED
```

```
(  
    [TrainingCategoryID] ASC  
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]  
) ON [PRIMARY]  
  
GO  
  
/******** Object: Table [Training].[TrainingVideo]  Script Date: 12/05/2017 21:58:06 *****/  
  
SET ANSI_NULLS ON  
  
GO  
  
SET QUOTED_IDENTIFIER ON  
  
GO  
  
CREATE TABLE [Training].[TrainingVideo](  
    [TrainingVideoID] [int] NOT NULL,  
    [TrainingTrackerID] [int] NOT NULL,  
    [DateRecorded] [datetime] NOT NULL,  
CONSTRAINT [PK_TrainingRecorded] PRIMARY KEY CLUSTERED  
(  
    [TrainingVideoID] ASC  
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,  
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]  
) ON [PRIMARY]  
  
GO  
  
/******** Object: Table [Treatment].[Treatment]  Script Date: 12/05/2017 21:58:06 *****/  
  
SET ANSI_NULLS ON  
  
GO  
  
SET QUOTED_IDENTIFIER ON  
  
GO  
  
CREATE TABLE [Treatment].[Treatment](  
    [TreatmentID] [int] NOT NULL,  
    [TreatmentTypeID] [int] NOT NULL,  
    [TreatmentName] [nvarchar](50) NOT NULL,  
CONSTRAINT [PK_Haircut] PRIMARY KEY CLUSTERED  
(
```

[TreatmentID] ASC

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Treatment].[TreatmentEquiptment] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Treatment].[TreatmentEquiptment](

[TreatmentEquiptmentID] [int] NOT NULL,

[TreatmentID] [int] NOT NULL,

[EquiptmentID] [int] NOT NULL,

[AmountNeeded] [int] NOT NULL,

CONSTRAINT [PK_HaircutEquiptment] PRIMARY KEY CLUSTERED

(

[TreatmentEquiptmentID] ASC

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Treatment].[TreatmentProductStock] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [Treatment].[TreatmentProductStock](

[TreatmentProductStockID] [int] NOT NULL,

[TreatmentID] [int] NOT NULL,

[ProductStockID] [int] NOT NULL,

CONSTRAINT [PK_HaircutProductStock] PRIMARY KEY CLUSTERED

(

Adam Smith
[TreatmentProductStockID] ASC

[n3276931]

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

***** Object: Table [Treatment].[TreatmentType] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

```
CREATE TABLE [Treatment].[TreatmentType](
```

[TreatmentTypeID] [int] NOT NULL,

[TreatmentType] [nvarchar](max) NOT NULL,

CONSTRAINT [PK_TreatmentType] PRIMARY KEY CLUSTERED

(

[TreatmentTypeID] ASC

)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]

GO

***** Object: View [dbo].[All_Bookings] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

```
CREATE VIEW [dbo].[All_Bookings]
```

AS

SELECT Customer.Customer.ForeName, Treatment.TreatmentName

```
FROM      Treatment.TreatmentType INNER JOIN  
          Treatment.Treatment ON Treatment.TreatmentType.TreatmentTypeID =  
Treatment.Treatment.TreatmentTypeID AND Treatment.TreatmentType.TreatmentTypeID =  
Treatment.Treatment.TreatmentTypeID INNER JOIN
```

Adam Smith

[n3276931]

Booking.Booking ON Treatment.Treatment.TreatmentID = Booking.Booking.TreatmentID AND
Treatment.Treatment.TreatmentID = Booking.Booking.TreatmentID INNER JOIN

Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID AND
Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN

Booking.BookingTime ON Booking.Booking.BookingID = Booking.BookingTime.BookingID

GO

***** Object: View [dbo].[All_Future_Bookings] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[All_Future_Bookings]

AS

SELECT Customer.Customer.ForeName, Treatment.Treatment.TreatmentName,
Treatment.TreatmentType.TreatmentType, Booking.BookingTime.Date, Booking.BookingTime.TimeStart
FROM Treatment.TreatmentType INNER JOIN

Treatment.Treatment ON Treatment.TreatmentType.TreatmentTypeID =
Treatment.Treatment.TreatmentTypeID AND Treatment.TreatmentType.TreatmentTypeID =
Treatment.Treatment.TreatmentTypeID INNER JOIN

Booking.Booking ON Treatment.Treatment.TreatmentID = Booking.Booking.TreatmentID AND
Treatment.Treatment.TreatmentID = Booking.Booking.TreatmentID INNER JOIN

Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID AND
Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN

Booking.BookingTime ON Booking.Booking.BookingID = Booking.BookingTime.BookingID

WHERE (Booking.BookingTime.Date > GETDATE())

GO

***** Object: View [dbo].[All_Reviews] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[All_Reviews]

AS

SELECT Customer.Customer.ForeName, Customer.Customer.Surname, Customer.Reviews.Rating,
Salon.HairAndBeautySalon.Name, Customer.Reviews.Comments

Adam Smith [n3276931]

```
FROM Customer.Customer INNER JOIN
      Customer.Reviews ON Customer.Customer.CustomerID = Customer.Reviews.CustomerID INNER JOIN
      Salon.HairAndBeautySalon ON Customer.Reviews.SalonsID = Salon.HairAndBeautySalon.SalonID
```

GO

***** Object: View [dbo].[forum] Script Date: 12/05/2017 21:58:06 *****

```
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE VIEW [dbo].[forum]
AS
SELECT Customer.Customer.ForeName, Forum.Topic_Post.Title, Forum.Topic_Post.Body
FROM Forum.CustomerProfile INNER JOIN
      Customer.Customer ON Forum.CustomerProfile.CustomerID = Customer.Customer.CustomerID INNER JOIN
      Forum.ForumTopic ON Forum.CustomerProfile.TopicID = Forum.ForumTopic.TopicID INNER JOIN
      Forum.CategoryForum ON Forum.ForumTopic.CategoryForumID =
      Forum.CategoryForum.CategoryTypeID AND Forum.ForumTopic.CategoryForumID =
      Forum.CategoryForum.CategoryTypeID INNER JOIN
      Forum.Topic_Post ON Forum.CustomerProfile.PostID = Forum.Topic_Post.PostID AND
      Forum.ForumTopic.TopicID = Forum.Topic_Post.TopicID AND Forum.ForumTopic.TopicID =
      Forum.Topic_Post.TopicID
```

GO

***** Object: View [dbo].[Invoice] Script Date: 12/05/2017 21:58:06 *****

```
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE VIEW [dbo].[Invoice]
AS
SELECT Salon.HairAndBeautySalon.SalonID, Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name,
Treatment.Treatment.TreatmentName, Booking.Pricing.Price, Customer.Customer.ForeName,
Customer.Customer.Surname
FROM Booking.Booking INNER JOIN
```

Adam Smith [n3276931]

```
Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN
Salon.HairAndBeautySalon ON Booking.Booking.SalonID = Salon.HairAndBeautySalon.SalonID INNER
JOIN
Treatment.Treatment ON Booking.Booking.TreatmentID = Treatment.Treatment.TreatmentID INNER
JOIN
Booking.Pricing ON Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID AND
Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID AND
Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID AND Booking.Pricing.TreatmentID =
Treatment.Treatment.TreatmentID INNER JOIN
Employee.Employee ON Booking.Booking.EmployeeID = Employee.Employee.EmployeeID AND
Booking.Booking.EmployeeID = Employee.Employee.EmployeeID AND
Salon.HairAndBeautySalon.SalonID = Employee.Employee.SalonID AND
Salon.HairAndBeautySalon.SalonID = Employee.Employee.SalonID AND
Salon.HairAndBeautySalon.SalonID = Employee.Employee.SalonID

WHERE (Salon.HairAndBeautySalon.SalonID = 1)

GO
***** Object: View [dbo].[Maintenance_Date] Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE VIEW [dbo].[Maintenance_Date]
AS
SELECT Equipment.EquipmentType.EquipmentTypeName, Equipment.Equipment.EquipmentName,
Equipment.Equipment.Make, Equipment.Maintenance.MaintenanceDate
FROM Equipment.Equipment INNER JOIN
Equipment.EquipmentType ON Equipment.Equipment.EquipmentTypeID =
Equipment.EquipmentType.EquipmentTypeID INNER JOIN
Equipment.Maintenance ON Equipment.Equipment.EquipmentID =
Equipment.Maintenance.EquipmentID
GO
***** Object: View [dbo].[Negative_Reviews] Script Date: 12/05/2017 21:58:06 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

Adam Smith

[n3276931]

CREATE VIEW [dbo].[Negative_Reviews]

AS

```
SELECT Customer.Customer.ForeName, Customer.Customer.Surname, Customer.Reviews.Rating,
Salon.HairAndBeautySalon.Name, Customer.Reviews.Comments
FROM Customer.Customer INNER JOIN
Customer.Reviews ON Customer.Customer.CustomerID = Customer.Reviews.CustomerID INNER JOIN
Salon.HairAndBeautySalon ON Customer.Reviews.SalonsID = Salon.HairAndBeautySalon.SalonID
WHERE (Customer.Reviews.Rating <= 5)
```

GO

***** Object: View [dbo].[Next_Month_Bookings] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[Next_Month_Bookings]

AS

```
SELECT Customer.Customer.ForeName, Treatment.Treatment.TreatmentName,
Treatment.TreatmentType.TreatmentType, Booking.BookingTime.Date, Booking.BookingTime.TimeStart
FROM Treatment.TreatmentType INNER JOIN
Treatment.Treatment ON Treatment.TreatmentType.TreatmentTypeID =
Treatment.Treatment.TreatmentTypeID AND Treatment.TreatmentType.TreatmentTypeID =
Treatment.Treatment.TreatmentTypeID INNER JOIN
```

```
Booking.Booking ON Treatment.Treatment.TreatmentID = Booking.Booking.TreatmentID AND
Treatment.Treatment.TreatmentID = Booking.Booking.TreatmentID INNER JOIN
```

```
Customer.Customer ON Booking.Booking.CustomerID = Customer.Customer.CustomerID AND
Booking.Booking.CustomerID = Customer.Customer.CustomerID INNER JOIN
```

```
Booking.BookingTime ON Booking.Booking.BookingID = Booking.BookingTime.BookingID
```

WHERE (Booking.BookingTime.Date BETWEEN '2017/03/20' AND '2017/04/20')

GO

***** Object: View [dbo].[Positive_Reviews] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

Adam Smith

[n3276931]

CREATE VIEW [dbo].[Positive_Reviews]

AS

```
SELECT Customer.Customer.ForeName, Customer.Customer.Surname, Customer.Reviews.Rating,
Salon.HairAndBeautySalon.Name, Customer.Reviews.Comments
FROM Customer.Customer INNER JOIN
Customer.Reviews ON Customer.Customer.CustomerID = Customer.Reviews.CustomerID INNER JOIN
Salon.HairAndBeautySalon ON Customer.Reviews.SalonsID = Salon.HairAndBeautySalon.SalonID
WHERE (Customer.Reviews.Rating > 5)
```

GO

***** Object: View [dbo].[Price_List_View] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[Price_List_View]

AS

```
SELECT Treatment.TreatmentType.TreatmentType, Treatment.Treatment.TreamtentName, Booking.Pricing.Price
FROM Booking.Pricing INNER JOIN
Treatment.Treatment ON Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID INNER
JOIN
Treatment.TreatmentType ON Treatment.Treatment.TreatmentTypeID =
Treatment.TreatmentType.TreatmentTypeID
```

GO

***** Object: View [dbo].[Price_Specific_View] Script Date: 12/05/2017 21:58:06 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[Price_Specific_View]

AS

```
SELECT Treatment.TreatmentType.TreatmentType, Treatment.Treatment.TreamtentName, Booking.Pricing.Price
FROM Booking.Pricing INNER JOIN
Treatment.Treatment ON Booking.Pricing.TreatmentID = Treatment.Treatment.TreatmentID INNER
JOIN
```

Adam Smith [n3276931]

Treatment.TreatmentType ON Treatment.Treatment.TreatmentTypeID =
Treatment.TreatmentType.TreatmentTypeID

WHERE (Treatment.TreatmentType.TreatmentTypeID = 9)

GO

***** Object: View [dbo].[Training_Failed] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[Training_Failed]

AS

SELECT Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name,
Training.TrainingActivity.ActivityName, Training.EmployeeTraining.DateCoached,
Training.EmployeeTraining.TrainingPassed

FROM Training.TrainingActivity INNER JOIN

Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID =
Training.EmployeeTraining.TrainingActivityID INNER JOIN

Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID
INNER JOIN

Salon.HairAndBeautySalon ON Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID

WHERE (Training.EmployeeTraining.TrainingPassed = 0)

GO

***** Object: View [dbo].[Training_Passed] Script Date: 12/05/2017 21:58:06 *****/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE VIEW [dbo].[Training_Passed]

AS

SELECT Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name,
Training.TrainingActivity.ActivityName, Training.EmployeeTraining.DateCoached,
Training.EmployeeTraining.TrainingPassed

FROM Training.TrainingActivity INNER JOIN

Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID =
Training.EmployeeTraining.TrainingActivityID INNER JOIN

Adam Smith [n3276931]
 Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID
 INNER JOIN
 Salon.HairAndBeautySalon ON Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID AND
 Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID

WHERE (Training.EmployeeTraining.TrainingPassed = 1)

GO

INSERT [Booking].[Booking] ([BookingID], [EmployeeID], [SalonID], [CustomerID], [TreatmentID], [Notes], [Confirmed], [Cancelled]) VALUES (1, 5, 1, 6, 1, N'Fussy Customer, be mindful.', 1, 0)

INSERT [Booking].[Booking] ([BookingID], [EmployeeID], [SalonID], [CustomerID], [TreatmentID], [Notes], [Confirmed], [Cancelled]) VALUES (2, 1, 1, 1, 11, N'Hopefully wont take too long!', 0, 0)

INSERT [Booking].[Booking] ([BookingID], [EmployeeID], [SalonID], [CustomerID], [TreatmentID], [Notes], [Confirmed], [Cancelled]) VALUES (3, 4, 1, 5, 12, NULL, 1, 1)

INSERT [Booking].[Booking] ([BookingID], [EmployeeID], [SalonID], [CustomerID], [TreatmentID], [Notes], [Confirmed], [Cancelled]) VALUES (4, 2, 1, 2, 6, N'First trial of the new nail art', 1, 0)

INSERT [Booking].[Booking] ([BookingID], [EmployeeID], [SalonID], [CustomerID], [TreatmentID], [Notes], [Confirmed], [Cancelled]) VALUES (5, 3, 1, 3, 5, N'Complete re-colour.', 1, 0)

INSERT [Booking].[Booking] ([BookingID], [EmployeeID], [SalonID], [CustomerID], [TreatmentID], [Notes], [Confirmed], [Cancelled]) VALUES (6, 6, 2, 4, 7, NULL, 1, 0)

INSERT [Booking].[BookingTime] ([BookingTimeID], [BookingID], [Date], [TimeStart], [TimeFinish]) VALUES (1, 1, CAST(N'2017-06-12' AS Date), CAST(N'11:15:00' AS Time), CAST(N'12:00:00' AS Time))

INSERT [Booking].[BookingTime] ([BookingTimeID], [BookingID], [Date], [TimeStart], [TimeFinish]) VALUES (2, 2, CAST(N'2017-05-12' AS Date), CAST(N'12:15:00' AS Time), CAST(N'13:00:00' AS Time))

INSERT [Booking].[BookingTime] ([BookingTimeID], [BookingID], [Date], [TimeStart], [TimeFinish]) VALUES (3, 3, CAST(N'2015-03-12' AS Date), CAST(N'09:00:00' AS Time), CAST(N'10:00:00' AS Time))

INSERT [Booking].[BookingTime] ([BookingTimeID], [BookingID], [Date], [TimeStart], [TimeFinish]) VALUES (4, 4, CAST(N'2015-02-27' AS Date), CAST(N'07:30:00' AS Time), CAST(N'09:00:00' AS Time))

INSERT [Booking].[BookingTime] ([BookingTimeID], [BookingID], [Date], [TimeStart], [TimeFinish]) VALUES (5, 5, CAST(N'2017-04-17' AS Date), CAST(N'15:00:00' AS Time), CAST(N'17:00:00' AS Time))

INSERT [Booking].[BookingTime] ([BookingTimeID], [BookingID], [Date], [TimeStart], [TimeFinish]) VALUES (6, 6, CAST(N'2018-03-18' AS Date), CAST(N'11:00:00' AS Time), CAST(N'13:00:00' AS Time))

INSERT [Booking].[Invoice] ([InvoiceID], [BookingID], [PriceID], [PaymentMethodID], [Date], [Paid], [ThankYouNote]) VALUES (1, 1, 1, 5, CAST(N'2017-02-12 00:00:00.000' AS DateTime), 1, N'Paid With Thanks!')

INSERT [Booking].[Invoice] ([InvoiceID], [BookingID], [PriceID], [PaymentMethodID], [Date], [Paid], [ThankYouNote]) VALUES (2, 2, 11, 2, CAST(N'2017-02-12 00:00:00.000' AS DateTime), 1, N'Paid With Thanks!')

INSERT [Booking].[Invoice] ([InvoiceID], [BookingID], [PriceID], [PaymentMethodID], [Date], [Paid], [ThankYouNote]) VALUES (3, 3, 12, 1, CAST(N'2017-03-12 00:00:00.000' AS DateTime), 1, N'Paid With Thanks!')

INSERT [Booking].[Invoice] ([InvoiceID], [BookingID], [PriceID], [PaymentMethodID], [Date], [Paid], [ThankYouNote]) VALUES (4, 4, 6, 5, CAST(N'2017-02-27 00:00:00.000' AS DateTime), 0, NULL)

Adam Smith [n3276931]
INSERT [Booking].[Invoice] ([InvoiceID], [BookingID], [PriceID], [PaymentMethodID], [Date], [Paid], [ThankYouNote])
VALUES (5, 5, 5, 4, CAST(N'2017-03-17 00:00:00.000' AS DateTime), 1, N'Paid With Thanks!')

INSERT [Booking].[Invoice] ([InvoiceID], [BookingID], [PriceID], [PaymentMethodID], [Date], [Paid], [ThankYouNote])
VALUES (6, 6, 7, 3, CAST(N'2017-03-18 00:00:00.000' AS DateTime), 1, N'Paid With Thanks!')

INSERT [Booking].[PaymentMethod] ([PaymentMethodID], [PaymentMethodName]) VALUES (1, N'Cash')

INSERT [Booking].[PaymentMethod] ([PaymentMethodID], [PaymentMethodName]) VALUES (2, N'Debit Card')

INSERT [Booking].[PaymentMethod] ([PaymentMethodID], [PaymentMethodName]) VALUES (3, N'Credit Card')

INSERT [Booking].[PaymentMethod] ([PaymentMethodID], [PaymentMethodName]) VALUES (4, N'Gift Card')

INSERT [Booking].[PaymentMethod] ([PaymentMethodID], [PaymentMethodName]) VALUES (5, N'PayPal')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (1, 1, N'10.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (2, 2, N'10.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (3, 3, N'15.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (4, 4, N'9.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (5, 5, N'39.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (6, 6, N'15.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (7, 7, N'9.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (8, 8, N'29.99')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (9, 9, N'75.00')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (10, 10, N'100 p/h')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (11, 11, N'100 p/h')

INSERT [Booking].[Pricing] ([PriceID], [TreatmentID], [Price]) VALUES (12, 12, N'40.00')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode],
[Email], [PhoneNo], [Username], [Password]) VALUES (0, N'Mansha', N'Nawaz', N'Prof', CAST(N'1988-07-07
00:00:00.000' AS DateTime), N'26 Laburnum Terrace', N'DH6 2HQ', N'Mansha@testemail.com', N'01915264989',
N'MNawaz!!!', N'MNawaz1234!!!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode],
[Email], [PhoneNo], [Username], [Password]) VALUES (1, N'Adam', N'Smith', N'Dr', CAST(N'1988-07-07 00:00:00.000'
AS DateTime), N'18 Rosebay Close, Shotton', N'DH6 2LH', N'Smith06@hotmail.co.uk', N'07824698886',
N'Smith06@hotmail.co.u', N'ApplyMacontosh24!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode],
[Email], [PhoneNo], [Username], [Password]) VALUES (2, N'James', N'Coils', NULL, CAST(N'1976-09-30 00:00:00.000'
AS DateTime), N'29 Hawthorne crescent, Trimdon', N'SR8 2LA', N'James.Coils@yahoo.com', N'07824978655',
N'J.Coils', N'CaseyNeistat!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode],
[Email], [PhoneNo], [Username], [Password]) VALUES (3, N'Helen', N'Ferguson', N'Miss', CAST(N'1992-03-16
00:00:00.000' AS DateTime), N'47 Lilac Terrace, Horden', N'E6 4GO', N'FergieFergie@gmail.com', N'0786492349',
N'FergieFergie@gmail.c', N'BlackEyedPeas<>')

Adam Smith

[n3276931]

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (4, N'Ruth', N'Flemming', N'Mrs', CAST(N'1964-03-28 00:00:00.000' AS DateTime), N'45 Grey Street, Ingleby Barwick', N'TS1 4PU', N'Fleming_Ruth@Gmail.com', N'01915264009', N'Fleming.Ruth', N'QueenElizabeth1!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (5, N'Latisha', N'Brown', N'Mrs', CAST(N'1973-05-20 00:00:00.000' AS DateTime), N'269 North Hyde La, Hounslow, Southal', N'UB2 5TE', N'Latisha73@hotmail.co.uk', N'07896548955', N'L.Brown73', N'Gretzky99')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (6, N'Elaine', N'Simpson', N'Mrs', CAST(N'1982-06-02 00:00:00.000' AS DateTime), N'48 Dawson Road, Wingate', N'DH5 P89', N'Simpson1982@gmail.com', N'07896547866', N'Simpson_Elaine', N'Arg3nt1Na')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (7, N'Ted', N'Grant', N'Mr', CAST(N'1983-02-02 00:00:00.000' AS DateTime), N'91 Castle View, Sherwood', N'SR4 9PL', N'Granty_1212@hotmail.co.uk', N'07824665565', N'Granty_1212', N'Passw0rd!!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (8, N'Steven ', N'Blakey', N'Mr', CAST(N'1985-08-08 00:00:00.000' AS DateTime), N'21 Shotton View, Mount Pleasant', N'M3 8PL', N'Blakey1985@yahoo.co.uk', N'07862486682', N'Blakey_Senior', N'834_242!!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (9, N'Kirsty', N'Fishwick', N'Miss', CAST(N'1992-02-02 00:00:00.000' AS DateTime), N'Wessington Way, Peterlee', N'SR3 9PH', N'Kirsty.Fishwick1992@yahoo.com', N'05267256276', N'Fishers_Kirsty', N'JohnWick!!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (10, N'Megan', N'Slater', N'Miss', CAST(N'1992-12-25 00:00:00.000' AS DateTime), N'25 Langley Park, Durham', N'DH1 3NU', N'Megan.Slater@hotmail.com', N'07896242233', N'Megan.Slater', N'Slater_Megan1992')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (11, N'Jacky', N'Stansfield', N'Miss', CAST(N'1964-05-05 00:00:00.000' AS DateTime), N'67 Front Street, Coxhoe, Durham', N'DH2 3PU', N'Jacky.Stansfield@bt.com', N'07899594668', N'Jacky.Stansfield', N'Dominican_Repub99!!')

INSERT [Customer].[Customer] ([CustomerID], [ForeName], [Surname], [Title], [DateOfBirth], [Address], [Postcode], [Email], [PhoneNo], [Username], [Password]) VALUES (12, N'Carly', N'Mitchell', N'Mrs', CAST(N'1988-08-06 00:00:00.000' AS DateTime), N'32 Victoria Street, South Hetton', N'DH4 7PH', N'Carly.cm88@hotmail.co.uk', N'07845545872', N'Carly88.Mitchell', N'Dublin_Guiness34!!')

INSERT [Customer].[Reviews] ([ReviewsID], [SalonsID], [CustomerID], [Rating], [Comments]) VALUES (1, 6, 1, 9, N'Really good, pleased with my hair and will certaily be booking again!')

INSERT [Customer].[Reviews] ([ReviewsID], [SalonsID], [CustomerID], [Rating], [Comments]) VALUES (2, 4, 2, 5, N'Please with my treatment but the staff were not very friendly. ')

INSERT [Customer].[Reviews] ([ReviewsID], [SalonsID], [CustomerID], [Rating], [Comments]) VALUES (3, 3, 3, 3, N'Certainly will not both with Miss Nails Again that is for certain.')

Adam Smith

[n3276931]

INSERT [Customer].[Reviews] ([ReviewsID], [SalonsID], [CustomerID], [Rating], [Comments]) VALUES (4, 5, 4, 7, N'Awesome love my new tattoo')

INSERT [Customer].[Reviews] ([ReviewsID], [SalonsID], [CustomerID], [Rating], [Comments]) VALUES (5, 2, 5, 8, N'MAGNIFIQUE!!!')

INSERT [Customer].[Reviews] ([ReviewsID], [SalonsID], [CustomerID], [Rating], [Comments]) VALUES (6, 1, 6, 10, N'Thoroughly enjoyed it, the staff treated me like royalty. ')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Dr')

INSERT [dbo].[NewTable] ([Title]) VALUES (NULL)

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Mr')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Mr')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Dr')

INSERT [dbo].[NewTable2] ([Title]) VALUES (NULL)

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Mrs')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Mr')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Mr')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Miss')

INSERT [dbo].[NewTable2] ([Title]) VALUES (N'Mrs')

INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (1, 1, 1, N'Phil', N'Unsworth', N'P.Unsworth', N'Ph1lUnsy1!')

INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (2, 1, 2, N'Sam ', N'Unsworth', N'S.Unsworth', N'Chicken123!')

Adam Smith [n3276931]
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (3, 1, 3, N'Helen', N'Wilkinson', N'H.Wilkinson', N'Sm1thy1234!')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (4, 1, 4, N'Brogham', N'Garfield', N'B.Garfield', N'PasswOrd!')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (5, 1, 5, N'Karl', N'Knox', N'K.Knox', N'MaX26LaB')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (6, 2, 1, N'Barry', N'Smith', N'B.Smith', N'Casp2906189')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (7, 3, 2, N'Kayleigh', N'Tiplady', N'K.Tiplady', N'SamiPod')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (8, 4, 3, N'Ian', N'Wilkinson', N'I.Wilkinson', N'ShadForth783')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (9, 5, 4, N'Elaine', N'Pairs', N'E.Pears', N'AmazOn!')
INSERT [Employee].[Employee] ([EmployeeID], [SalonID], [EmployeeRoleID], [First_Name], [Last_Name], [Username], [Password]) VALUES (10, 6, 5, N'Sophie ', N'Griffiths', N'S.Giffiths', N'POLOMP56')
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (1, 1, 1, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (2, 2, 1, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (3, 3, 1, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (4, 4, 1, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (5, 5, 1, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (6, 1, 2, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (7, 2, 2, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (8, 3, 2, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (9, 4, 2, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (10, 5, 2, 1)
INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (11, 1, 3, 1)

Adam Smith [n3276931]

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INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (12, 2, 3, 1)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (13, 3, 3, 1)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (14, 4, 3, 0)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (15, 5, 3, 0)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (16, 1, 4, 1)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (17, 2, 4, 1)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (18, 3, 4, 1)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (19, 4, 4, 0)

INSERT [Employee].[EmployeeAccess] ([EmployeeAccessID], [EmployeeRoleID], [SystemAuthorizationID], [AccessGranted]) VALUES (20, 5, 4, 0)

INSERT [Employee].[EmployeeRole] ([EmployeeRoleID], [RoleName]) VALUES (1, N'Owner')

INSERT [Employee].[EmployeeRole] ([EmployeeRoleID], [RoleName]) VALUES (2, N'Manager')

INSERT [Employee].[EmployeeRole] ([EmployeeRoleID], [RoleName]) VALUES (3, N'Senior')

INSERT [Employee].[EmployeeRole] ([EmployeeRoleID], [RoleName]) VALUES (4, N'Mid Level')

INSERT [Employee].[EmployeeRole] ([EmployeeRoleID], [RoleName]) VALUES (5, N'Junior')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (1, N'CreateCustomer', N'Customer')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (2, N'UpdateCustomer', N'Customer')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (3, N'DeleteCustomer', N'Customer')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (4, N'CreateSupplier', N'Supplier')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (5, N'UpdateSupplier', N'Supplier')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (6, N'DeleteSupplier', N'Supplier')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (7, N'CreateSalon', N'Salon')
```

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(8, N'UpdateSalon', N'Salon')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(9, N'DeleteSalon', N'Salon')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(10, N'CreateEmployee', N'Employee')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(11, N'UpdateEmployee', N'Employee')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(12, N'DeleteEmployee', N'Employee')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(13, N'CreateStock', N'Stock')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(14, N'UpdateStock', N'Stock')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(15, N'DeleteStock', N'Stock')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(16, N'CreateTreatments', N'Treatments')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(17, N'UpdateTreatments', N'Treatments')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(18, N'DeleteTreatments', N'Treatments')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(19, N'CreateInvoice', N'Invoice')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(20, N'UpdateInvoice', N'Invoice')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(21, N'DeleteInvoice', N'Invoice')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(22, N'CreatePrice', N'Price')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(23, N'UpdatePrice', N'Price')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(24, N'DeletePrice', N'Price')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(25, N'CreateReviews', N'Reviews')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES
(26, N'CreateEquipment', N'Equipment')

Adam Smith

[n3276931]

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (27, N'UpdateEquipment', N'Equipment')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (28, N'DeleteEquipment', N'Equipment')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (29, N'CreateMaintenance', N'Maintenance')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (30, N'UpdateMaintenance', N'Maintenance')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (31, N'DeleteMaintenance', N'Maintenance')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (32, N'CreateAssets', N'Assets')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (33, N'UpdateAssets', N'Assets')

INSERT [Employee].[SystemAuthorization] ([SystemAuthorizationID], [Add_Edit_Del], [AuthorizationName]) VALUES (34, N'DeleteAssets', N'Assets')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (1, 1, N'Wahl', N'Clippers')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (2, 1, N'Diva', N'Hairdryers')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (3, 1, N'Cloud9', N'Tongs')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (4, 1, N'Cloud9', N'Straightners')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (5, 1, N'Jaguar', N'Scissors')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (6, 2, N'Rio', N'UV Polish Lamp')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (7, 2, N'CND', N'Nail File')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (8, 2, N'CND', N'Nail Brush')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (9, 3, N'Hive', N'Wax Pot')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (10, 3, N'Option', N'Wax Stips')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (11, 4, N'St. Tropez', N'Spray Gun')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (12, 4, N'St. Tropez', N'Tanning Tent')

INSERT [Equipment].[Equiptment] ([EquiptmentID], [EquiptmentTypeID], [Make], [EquiptmentName]) VALUES (13, 5, N'Erikson', N'Tattoo Pen')

INSERT [Equipment].[EquiptmentType] ([EquiptmentTypeID], [EquiptmentTypeName]) VALUES (1, N'HairEquiptment')

INSERT [Equipment].[EquiptmentType] ([EquiptmentTypeID], [EquiptmentTypeName]) VALUES (2, N'NailEquiptment')

INSERT [Equipment].[EquiptmentType] ([EquiptmentTypeID], [EquiptmentTypeName]) VALUES (3, N'EyebrowEquiptment')

INSERT [Equipment].[EquiptmentType] ([EquiptmentTypeID], [EquiptmentTypeName]) VALUES (4, N'TanningEquiptment')

INSERT [Equipment].[EquiptmentType] ([EquiptmentTypeID], [EquiptmentTypeName]) VALUES (5, N'Tattoo')

INSERT [Equipment].[Maintenance] ([MaintenanceID], [EquiptmentID], [MaintenanceTypeID], [MaintenanceDate], [MaintenanceDescription], [MaintenancePerformedBy]) VALUES (1, 1, 3, CAST(N'2017-12-14 00:00:00.000' AS DateTime), N'Faulty, new equiptment needed', N'Ken Chegworth')

INSERT [Equipment].[Maintenance] ([MaintenanceID], [EquiptmentID], [MaintenanceTypeID], [MaintenanceDate], [MaintenanceDescription], [MaintenancePerformedBy]) VALUES (2, 2, 1, CAST(N'2016-12-14 00:00:00.000' AS DateTime), N'No problems.', N'Ken Chegworth')

INSERT [Equipment].[Maintenance] ([MaintenanceID], [EquiptmentID], [MaintenanceTypeID], [MaintenanceDate], [MaintenanceDescription], [MaintenancePerformedBy]) VALUES (3, 3, 2, CAST(N'2016-12-14 00:00:00.000' AS DateTime), N'Power shortage, fuse repaired.', N'Ken Chegworth')

INSERT [Equipment].[Maintenance] ([MaintenanceID], [EquiptmentID], [MaintenanceTypeID], [MaintenanceDate], [MaintenanceDescription], [MaintenancePerformedBy]) VALUES (4, 4, 1, CAST(N'2017-12-14 00:00:00.000' AS DateTime), N'No problems at all.', N'Ken Chegworth')

INSERT [Equipment].[Maintenance] ([MaintenanceID], [EquiptmentID], [MaintenanceTypeID], [MaintenanceDate], [MaintenanceDescription], [MaintenancePerformedBy]) VALUES (5, 5, 2, CAST(N'2017-12-14 00:00:00.000' AS DateTime), N'Sharpened and returned.', N'Ken Chegworth')

INSERT [Equipment].[Maintenance] ([MaintenanceID], [EquiptmentID], [MaintenanceTypeID], [MaintenanceDate], [MaintenanceDescription], [MaintenancePerformedBy]) VALUES (6, 6, 3, CAST(N'2017-12-14 00:00:00.000' AS DateTime), N'Faulty, new Polish Lamp Needed', N'Ken Chegworth')

INSERT [Equipment].[MaintenanceType] ([MaintenanceTypeID], [MaintenanceName]) VALUES (1, N'Full Maintenance')

INSERT [Equipment].[MaintenanceType] ([MaintenanceTypeID], [MaintenanceName]) VALUES (2, N'Repair')

INSERT [Equipment].[MaintenanceType] ([MaintenanceTypeID], [MaintenanceName]) VALUES (3, N'Faulty')

INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (1, N'Mens Hair')

INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (2, N'Ladies Hair')

INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (3, N'General Styling')

INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (4, N'Nail Polish')

Adam Smith [n3276931]
INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (5, N'Nail Art')
INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (6, N'Tanning Products')
INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (7, N'Tanning Enquiries')
INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (8, N'Tattoo Healing')
INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (9, N'General Beauty')
INSERT [Forum].[CategoryForum] ([CategoryTypeID], [CategoryName]) VALUES (10, N'General')
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (1, 1, 1, NULL, NULL, 1)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (2, 2, 3, NULL, NULL, 0)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (3, 3, 3, NULL, NULL, 1)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (4, 4, 4, NULL, NULL, 1)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (5, 5, 5, NULL, NULL, 0)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (6, 6, 6, NULL, NULL, 0)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (7, 7, NULL, 2, NULL, 0)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (8, 8, NULL, 4, NULL, 1)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (9, 9, NULL, 1, NULL, 1)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (10, 10, NULL, 3, NULL, 1)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (11, 11, NULL, 5, NULL, 0)
INSERT [Forum].[CustomerProfile] ([CustomerProfileID], [CustomerID], [TopicID], [PostID], [Avatar], [OnlineStatus])
VALUES (12, 12, NULL, 3, NULL, 1)
INSERT [Forum].[ForumTopic] ([TopicID], [CategoryForumID], [Title], [Body], [Createdat], [updatedat], [PostViews])
VALUES (1, 10, N'Guappo Hair Design...', N'Can anyone tell me if guappo are good?', CAST(N'2016-07-29
00:00:00.000' AS DateTime), NULL, 3)
INSERT [Forum].[ForumTopic] ([TopicID], [CategoryForumID], [Title], [Body], [Createdat], [updatedat], [PostViews])
VALUES (2, 3, N'New Hair Cut NEEDED', N'Whats fashionable for us gents these days?', CAST(N'2016-12-25
00:00:00.000' AS DateTime), CAST(N'2016-12-26 00:00:00.000' AS DateTime), 5)
INSERT [Forum].[ForumTopic] ([TopicID], [CategoryForumID], [Title], [Body], [Createdat], [updatedat], [PostViews])
VALUES (3, 5, N'Nail Art (Miss Nails)', N'Love my new nails will certainly be going back!!!!', CAST(N'2017-03-02
11:00:00.000' AS DateTime), NULL, 4)

Adam Smith

[n3276931]

INSERT [Forum].[ForumTopic] ([TopicID], [CategoryForumID], [Title], [Body], [Createdat], [updatedat], [PostViews])
VALUES (4, 10, N'Tattoo Cover-up', N'Looking for a tattoo idea to cover a very poor tattoo I have', CAST(N'2017-03-02 11:00:00.000' AS DateTime), CAST(N'2017-03-03 00:00:00.000' AS DateTime), 5)

INSERT [Forum].[ForumTopic] ([TopicID], [CategoryForumID], [Title], [Body], [Createdat], [updatedat], [PostViews])
VALUES (5, 9, N'Jesmond Beauty Clinic', N'how can I create a good smokey eye?', CAST(N'2017-01-11 00:00:00.000' AS DateTime), NULL, 4)

INSERT [Forum].[ForumTopic] ([TopicID], [CategoryForumID], [Title], [Body], [Createdat], [updatedat], [PostViews])
VALUES (6, 2, N'Beach Wave', N'How do I create a beach wave using straightners', CAST(N'2017-01-15 00:00:00.000' AS DateTime), NULL, 11)

INSERT [Forum].[Topic_Post] ([PostID], [TopicID], [Title], [Body], [CreatedAt], [UpdatedAT]) VALUES (1, 6, N'Beach Wave', N'Wrap the hair around the straightners, turn the straighters once and pull through the ends.', CAST(N'1900-01-01 11:00:00.000' AS DateTime), CAST(N'1900-01-01 11:00:00.000' AS DateTime))

INSERT [Forum].[Topic_Post] ([PostID], [TopicID], [Title], [Body], [CreatedAt], [UpdatedAT]) VALUES (2, 1, N'GUAPPO', N'I think that Guappo's Hair Design, is excellent. The staff are also so friendly and love catching up with their customers.', CAST(N'1900-01-01 11:00:00.000' AS DateTime), CAST(N'1900-01-01 11:00:00.000' AS DateTime))

INSERT [Forum].[Topic_Post] ([PostID], [TopicID], [Title], [Body], [CreatedAt], [UpdatedAT]) VALUES (3, 5, N'Smokey Eye', N'Sweep Dark eyeshadow to a point at end of eyebrow, then sweep a little onto your lower lid.', CAST(N'1900-01-01 11:00:00.000' AS DateTime), CAST(N'1900-01-01 11:00:00.000' AS DateTime))

INSERT [Forum].[Topic_Post] ([PostID], [TopicID], [Title], [Body], [CreatedAt], [UpdatedAT]) VALUES (4, 4, N'Tattoo cover-up', N'Hi, it depents on the size of your current tattoo, please elaborate.', CAST(N'1900-01-01 11:00:00.000' AS DateTime), CAST(N'1900-01-01 11:00:00.000' AS DateTime))

INSERT [Forum].[Topic_Post] ([PostID], [TopicID], [Title], [Body], [CreatedAt], [UpdatedAT]) VALUES (5, 2, N'Fashionable Hair', N'skin fades are in at the moment.', CAST(N'1900-01-01 11:00:00.000' AS DateTime), CAST(N'1900-01-01 11:00:00.000' AS DateTime))

INSERT [Forum].[Topic_Post] ([PostID], [TopicID], [Title], [Body], [CreatedAt], [UpdatedAT]) VALUES (6, 3, N'Nail Art', N'Hi, Ive been looking to change for a while now, what art would you recommend?', CAST(N'1900-01-01 11:00:00.000' AS DateTime), CAST(N'1900-01-01 11:00:00.000' AS DateTime))

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (1, N'http://3.bp.blogspot.com/_O4YbuUH2Kms/TJWbd0D0SoI/AAAAAAAAs/e3VgaXhYbDY/s1600/Tigi+Bed+Head+Urban+Anti-dotes.jpg', N'Bead Head Gel and Wax')

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (2, N'https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcRlkhlTrNW410hXCA0cm4Ro7qXeAHSGy4Mt100jw-25L3fEj7c', N'got2B Hair gel')

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (3, N'https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcTl61QOIGgdSV7SyLZLjVWINEntBFhVux1WB7NeQUTSHdakS5FziQ', N'Garnier Hair Wax')

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (4, N'data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMTEhUTEExMWFRUXGB8bGBYWGCEdIBofHh4dGhoaHR0hHSggGholHx0aljEhJSkrLi4uHh8zODMtNyotLisBCgoKDg0OGxAQGy0IH4U4LS0tLS0tLS0tLy0tLS0tLS0tLS0tLS0tLS0tLS0tLf/AABEIaJEBXAMB1gACEQEDEQH/xAAcAAABBQEBAQAAAAAAAAAAAHAAAMEBQYCCAH/xABHEAACQIEAgcFBQQJAwMFAAABAhEAAwQSITFBQUQUGByJhcZETMoGhsUJSYsHwFCNy0RUzgpKissLh8VNjgyRD0hclRJP/8QAGQEAAwEBAQAAAAAAAAAAECAwQF/8QAKBEAAgIBAwQCAQUBAAAAAAAEECEQMSITEEMkFREylFDNCYYGR/9oADAMBAIRAxEAPwA40qVKgBUqVKgBUqVV+M6cw1oxcv2IP3S4n0maLGk3wWF

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[n3276931]

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INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (8, N'http://thumbs1.ebaystatic.com/d/l225/m/m0Wli09MYW0WUbyaq63HApQ.jpg', N'Antiseptic Tattoo wipes')

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (9, N'http://www.famousdave.co.uk/files/6113/4019/2359/colourchart.jpg', N'Tanning Oils')

Adam Smith

[n3276931]

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (10,
N'http://www.imagehere.com', N'Tanning Mit')

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (11,
N'http://www.imagehere.com', N'Beard oils')

INSERT [Products].[ProductImage] ([ProductImageID], [ProductImageURL], [Notes]) VALUES (12,
N'http://www.imagehere.com', N'Beard Comb')

INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
[ProductName]) VALUES (1, 4, 1, 6, N'Unigloves Alcohol Wipes')

INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
[ProductName]) VALUES (2, 8, 1, 6, N'Braun Tattoo bandages')

INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
[ProductName]) VALUES (3, 1, 2, 1, N'Bed Head Gel and Wax')

INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
[ProductName]) VALUES (4, 3, 2, 1, N'Garnier Hair Wax')

INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
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INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
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INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
[ProductName]) VALUES (7, 11, 3, 7, N'Beard oils')

INSERT [Products].[ProductStock] ([ProductStockID], [ProductImageID], [SupplierID], [ProductStockTypeID],
[ProductName]) VALUES (8, 12, 3, 7, N'Beard Comb')

INSERT [Products].[ProductStockLevel] ([ProductStockLevelID], [ProductStockID], [ProductStockLevel]) VALUES (1, 1,
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INSERT [Products].[ProductStockLevel] ([ProductStockLevelID], [ProductStockID], [ProductStockLevel]) VALUES (2, 2,
150)

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30)

INSERT [Products].[ProductStockLevel] ([ProductStockLevelID], [ProductStockID], [ProductStockLevel]) VALUES (7, 7,
10)

INSERT [Products].[ProductStockLevel] ([ProductStockLevelID], [ProductStockID], [ProductStockLevel]) VALUES (8, 8,
150)

INSERT [Products].[ProductStockType] ([ProductStockTypeID], [ProductStockTypeName]) VALUES (1, N'Hair Product')

Adam Smith [n3276931]
INSERT [Products].[ProductStockType] ([PrductStockTypeID], [ProductStockTypeName]) VALUES (2, N'NailProduct')
INSERT [Products].[ProductStockType] ([PrductStockTypeID], [ProductStockTypeName]) VALUES (3, N'EyebrowProduct')
INSERT [Products].[ProductStockType] ([PrductStockTypeID], [ProductStockTypeName]) VALUES (4, N'TanningProduct')
INSERT [Products].[ProductStockType] ([PrductStockTypeID], [ProductStockTypeName]) VALUES (5, N'BeautyProduct')
INSERT [Products].[ProductStockType] ([PrductStockTypeID], [ProductStockTypeName]) VALUES (6, N'Tattoo')
INSERT [Products].[ProductStockType] ([PrductStockTypeID], [ProductStockTypeName]) VALUES (7, N'Beard Products')
INSERT [Products].[ProductSuppliers] ([SupplierID], [Name], [ContactName], [Address], [PostCode], [Country], [PhoneNo], [Email], [URL], [Logo], [Notes], [CurrentOrder]) VALUES (1, N'Sallys', N'Gill Burgess', N'33 Shadforth Close', N'SR8 2LA', N'England', N'0800 980 9961', N'G.Burgess@sallys.com', N'http://www.sallyexpress.com', N'http://www.sallyexpress.com/images/core/logo.gif', N'---', N'15 Hair Products')
INSERT [Products].[ProductSuppliers] ([SupplierID], [Name], [ContactName], [Address], [PostCode], [Country], [PhoneNo], [Email], [URL], [Logo], [Notes], [CurrentOrder]) VALUES (2, N'Salon Services', N'Barbara Yews', N'Bothar Na Mine, Ballybane', N'H91 RFC1', N'Ireland', N'00353 917 51377', N'B.Yews@SalServ.co.uk', N'http://www.salon-services.com', N'http://www.salon-services.com/images/core/ss_logo.gif', N'Every 2 Month', N'15 Hair Products')
INSERT [Products].[ProductSuppliers] ([SupplierID], [Name], [ContactName], [Address], [PostCode], [Country], [PhoneNo], [Email], [URL], [Logo], [Notes], [CurrentOrder]) VALUES (3, N'Beauty Express', N'Bill Myers', N'Unit 3 The Arc,
25 Colquhoun Ave,', N'G52 4BN ', N'Scotland', N'0330 123 1908', N'B.Myers@BExpress.co.uk', N'http://www.beautyexpress.co.uk/nails/', N'http://www.beautyexpress.co.uk/images/core/belogo.gif', N'Every Quarter', N'35 Nail Products')
INSERT [Products].[ProductSuppliers] ([SupplierID], [Name], [ContactName], [Address], [PostCode], [Country], [PhoneNo], [Email], [URL], [Logo], [Notes], [CurrentOrder]) VALUES (4, N'LA Tanning', N'Kimberley Jayne', N'62 Buxton Rd, Stockport,', N'SK2 6NB', N'England', N'0161 483 7156', N'K.Jayne@latanning.com', N'http://www.latanning.co.uk', N'http://www.latanning.co.uk/media/images/default/la_tan_new_logo_2-min.jpg', N'Monthly', N'5 Tanning Products')
INSERT [Products].[ProductSuppliers] ([SupplierID], [Name], [ContactName], [Address], [PostCode], [Country], [PhoneNo], [Email], [URL], [Logo], [Notes], [CurrentOrder]) VALUES (5, N'Feel Unique', N'Marg Kay', N'4th floor, Berkshire House, ', N'WC1V 7AA', N'England', N'+447937 946929', N'M.K@Feelunique.com', N'http://www.feelunique.com', N'http://cdn1.feelunique.com/assets/img/feelunique-logo.png?LoOP=890a39ddec5f939885dafc6d03eaae57Dc', N'Monthly', N'Beauty and Eyebrow products x25')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (1, N'Monitors')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (2, N'Keyboards')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (3, N'Laptops')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (4, N'Safe')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (5, N'CashRegister')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (6, N'Server')

Adam Smith [n3276931]
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (7, N'MobilePhones')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (8, N'Scissors')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (9, N'product')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (10, N'Combs')
INSERT [Salon].[AssetCategories] ([AssetCategoryID], [AssetCategory]) VALUES (11, N'Nail Equipment')
INSERT [Salon].[Assets] ([AssetID], [AssetCategoryID], [ModelNo], [SerialNo], [DateAcquired], [PurchasePrice], [Comments]) VALUES (1, 6, N'Dell', N'8345pX4i', CAST(N'2017-02-02 00:00:00.000' AS DateTime), N'400.00', N'Server, great condition')
INSERT [Salon].[Assets] ([AssetID], [AssetCategoryID], [ModelNo], [SerialNo], [DateAcquired], [PurchasePrice], [Comments]) VALUES (2, 8, N'Wella', N'823454LL', CAST(N'2016-12-12 00:00:00.000' AS DateTime), N'12.65', N'Scissors, still sharp.')
INSERT [Salon].[Assets] ([AssetID], [AssetCategoryID], [ModelNo], [SerialNo], [DateAcquired], [PurchasePrice], [Comments]) VALUES (3, 3, N'Apple Macbook Pro', N'i349345BG', CAST(N'2015-07-08 00:00:00.000' AS DateTime), N'1250.00', N'Macbook, getting slower')
INSERT [Salon].[Assets] ([AssetID], [AssetCategoryID], [ModelNo], [SerialNo], [DateAcquired], [PurchasePrice], [Comments]) VALUES (4, 10, N'---', N'197GTY', CAST(N'2017-01-28 00:00:00.000' AS DateTime), N'20.00', N'Comb has teeth missing')
INSERT [Salon].[Assets] ([AssetID], [AssetCategoryID], [ModelNo], [SerialNo], [DateAcquired], [PurchasePrice], [Comments]) VALUES (5, 11, N'NSI', N'NSI012547BG', CAST(N'2016-12-25 00:00:00.000' AS DateTime), N'500.00', N'Twin Fan Nail Dryer, possible repair needed')
INSERT [Salon].[Assets] ([AssetID], [AssetCategoryID], [ModelNo], [SerialNo], [DateAcquired], [PurchasePrice], [Comments]) VALUES (6, 1, N'Dell', N'896GB', CAST(N'2016-12-25 00:00:00.000' AS DateTime), N'125.00', N'Dell Monitor')
INSERT [Salon].[HairAndBeautySalon] ([SalonID], [Name], [Address], [Postcode], [Telephone Number], [Website], [LogoURL], [Facebook], [Linkedin], [Twitter], [Googleplus], [Location], [RegistrationDate]) VALUES (1, N'Guappo Hair Design', N'20 Front Street, Shotton,
County Durham', N'DH6 2LT', N'0191 520 8244', N'http://www.guappo.co.uk', N'https://static.wixstatic.com/media/f84d5c_43d927d4a56f45218a720196ed58d601~mv2.jpeg/v1/fill/w_867,h_155,al_c,q_80,usm_0.66_1.00_0.01/f84d5c_43d927d4a56f45218a720196ed58d601~mv2.webp', N'https://www.facebook.com/guappohd/', NULL, NULL, NULL, 0xE6100000010C17D9CEF753D347407593180456965EC0, CAST(N'2016-05-20 00:00:00.000' AS DateTime))
INSERT [Salon].[HairAndBeautySalon] ([SalonID], [Name], [Address], [Postcode], [Telephone Number], [Website], [LogoURL], [Facebook], [Linkedin], [Twitter], [Googleplus], [Location], [RegistrationDate]) VALUES (2, N'The Hair Studio', N'9 Upper Yoden Way, Castle Dene Shopping Centre, Peterlee', N'SR8 1AX', N'0191 518 1515', N'http://castledeneshoppingcentre.co.uk/shops/the-hair-studio/', N'http://castledeneshoppingcentre.co.uk/wp-content/themes/centretHEME/images/siteimages/logo.png', N'https://www.facebook.com/pages/The-Hair-Studio-peterlee/189083514459730', NULL, NULL, NULL, 0xE6100000010C17D9CEF753D347407593180456965EC0, CAST(N'2015-06-21 00:00:00.000' AS DateTime))

INSERT [Salon].[HairAndBeautySalon] ([SalonID], [Name], [Address], [Postcode], [Telephone Number], [Website], [LogoURL], [Facebook], [Linkedin], [Twitter], [Googleplus], [Location], [RegistrationDate]) VALUES (3, N'Miss Nails', N'75 North Road, Durham', N'DH14SQ', N'01274309114', N'http://www.miss-nails.co.uk/miss%20nails-price%20list.htm', N'http://www.miss-nails.co.uk/index_htm_files/0.png', N'https://www.facebook.com/missnailsforyou/', NULL, NULL, NULL, 0xE6100000010C17D9CEF753D347407593180456965EC0, CAST(N'2014-04-29 00:00:00.000' AS DateTime))

INSERT [Salon].[HairAndBeautySalon] ([SalonID], [Name], [Address], [Postcode], [Telephone Number], [Website], [LogoURL], [Facebook], [Linkedin], [Twitter], [Googleplus], [Location], [RegistrationDate]) VALUES (4, N'BONAPPEFEET', N'34b river walk, Durham', N'DH1 4SJ', N'07903564310', N'http://www.bonappefeet.co.uk/', N'http://www.bonappefeet.co.uk/includes/templates/trai_uk/images/logo-bona.png', N'https://www.facebook.com/Bonappefeet-129508600461267/', NULL, NULL, NULL, 0xE6100000010C17D9CEF753D347407593180456965EC0, CAST(N'2017-01-01 00:00:00.000' AS DateTime))

INSERT [Salon].[HairAndBeautySalon] ([SalonID], [Name], [Address], [Postcode], [Telephone Number], [Website], [LogoURL], [Facebook], [Linkedin], [Twitter], [Googleplus], [Location], [RegistrationDate]) VALUES (5, N'Angels Tattoo's And Piercing', N'11 Newport Cres, Middlesbrough', N'TS1 5EP', N'01642 228749', N'http://www.angeltattooandpiercing.com/', N'http://www.angeltattooandpiercing.com/logo.php/1', NULL, NULL, NULL, NULL, 0xE6100000010C17D9CEF753D347407593180456965EC0, CAST(N'2016-07-29 00:00:00.000' AS DateTime))

INSERT [Salon].[HairAndBeautySalon] ([SalonID], [Name], [Address], [Postcode], [Telephone Number], [Website], [LogoURL], [Facebook], [Linkedin], [Twitter], [Googleplus], [Location], [RegistrationDate]) VALUES (6, N'Jesmond Beauty Clinic', N'11-12 Clayton Road, Jesmond, Newcastle upon Tyne', N'NE2 4RP', N'0191 2818775', N'http://www.jesmondbeauty.co.uk', N'http://www.jesmondbeauty.co.uk/images/jesmond-beauty-logo.png', N'https://www.facebook.com/jesmondbeautyclinic/', NULL, N'https://twitter.com/beautyjesmond', NULL, 0xE6100000010C17D9CEF753D347407593180456965EC0, CAST(N'2014-04-30 00:00:00.000' AS DateTime))

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (1, 1, 1)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (2, 2, 1)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (3, 3, 1)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (4, 5, 1)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (5, 6, 1)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (7, 1, 2)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (8, 2, 2)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (9, 3, 2)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (10, 4, 2)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (11, 5, 2)

INSERT [Salon].[SalonAssets] ([SalonAssetID], [SalonID], [AssetID]) VALUES (12, 6, 2)

INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (1, 1, N'Monday', CAST(N'08:00:00' AS Time), CAST(N'17:00:00' AS Time), NULL)

INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (2, 1, N'Tuesday', CAST(N'08:00:00' AS Time), CAST(N'17:00:00' AS Time), NULL)

INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (3, 1, N'Wednesday', CAST(N'08:00:00' AS Time), CAST(N'17:00:00' AS Time), N'CLOSED')

Adam Smith [n3276931]

```
INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (4, 1, N'Thursday', CAST(N'10:30:00' AS Time), CAST(N'19:30:00' AS Time), NULL)
```

```
INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (5, 1, N'Friday', CAST(N'08:00:00' AS Time), CAST(N'17:00:00' AS Time), NULL)
```

```
INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (6, 1, N'Saturday', CAST(N'07:00:00' AS Time), CAST(N'14:00:00' AS Time), NULL)
```

```
INSERT [Salon].[SalonOpeningTime] ([OpeningTimeID], [SalonID], [DayOfWeek], [OpeningTime], [ClosingTime], [NotesIfClosed]) VALUES (7, 1, N'Sunday', CAST(N'08:00:00' AS Time), CAST(N'17:00:00' AS Time), N'CLOSED')
```

```
INSERT [Training].[EmployeeTraining] ([TrainingTrackerID], [EmployeeID], [TrainingActivityID], [TrainingActivityName], [DateCoached], [DateVerified], [EmployeeVerificationName], [TrainingPassed]) VALUES (1, 5, 2, N'MensColour', CAST(N'2017-03-05 00:00:00.000' AS DateTime), CAST(N'2017-03-05 00:00:00.000' AS DateTime), N'Phil Unsworth', 1)
```

```
INSERT [Training].[EmployeeTraining] ([TrainingTrackerID], [EmployeeID], [TrainingActivityID], [TrainingActivityName], [DateCoached], [DateVerified], [EmployeeVerificationName], [TrainingPassed]) VALUES (2, 4, 4, N'WomansColour', CAST(N'2016-12-12 00:00:00.000' AS DateTime), CAST(N'2016-12-12 00:00:00.000' AS DateTime), N'Phil Unsworth', 1)
```

```
INSERT [Training].[EmployeeTraining] ([TrainingTrackerID], [EmployeeID], [TrainingActivityID], [TrainingActivityName], [DateCoached], [DateVerified], [EmployeeVerificationName], [TrainingPassed]) VALUES (3, 3, 5, N'CutThroatShave', CAST(N'2017-11-12 00:00:00.000' AS DateTime), CAST(N'2017-11-12 00:00:00.000' AS DateTime), N'Phil Unsworth', 1)
```

```
INSERT [Training].[EmployeeTraining] ([TrainingTrackerID], [EmployeeID], [TrainingActivityID], [TrainingActivityName], [DateCoached], [DateVerified], [EmployeeVerificationName], [TrainingPassed]) VALUES (4, 10, 1, N'MensCut', CAST(N'2017-03-05 00:00:00.000' AS DateTime), CAST(N'2017-03-05 00:00:00.000' AS DateTime), N'Jeffrey Turner', 0)
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (1, 8, N'Waxing', N'Full Eyebrow Wax')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (2, 1, N'MensCut', N'Heavy Blend')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (3, 2, N'MensColour', N'Mens Full Colour Change')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (4, 7, N'BeardPrecision', N'Trimming and neatening of the beard')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (5, 6, N'Tanning', N'Full body fake tan application')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (6, 5, N'CutThroatShave', N'Wet towelling followed by cut throat shave')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (7, 3, N'WomansCut', N'Cut in a full fringe')
```

```
INSERT [Training].[TrainingActivity] ([TrainingActivityID], [TrainingCategoryID], [ActivityName], [ActivityDescription]) VALUES (8, 4, N'WomansColour', N'Extreme Colour change')
```

```
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (1, 1, N'MensCut')
```

Adam Smith [n3276931]
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (2, 1, N'MensColour')
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (3, 1, N'WomansCut')
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (4, 1, N'WomansColour')
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (5, 1, N'CutThroatShave')
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (6, 1, N'Tanning')
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (7, 1, N'BeardPrecision')
INSERT [Training].[TrainingCategory] ([TrainingCategoryID], [SalonID], [CategoryName]) VALUES (8, 1, N'Waxing')
INSERT [Training].[TrainingVideo] ([TrainingVideoID], [TrainingTrackerID], [DateRecorded]) VALUES (1, 4, CAST(N'2017-03-05 00:00:00.000' AS DateTime))
INSERT [Training].[TrainingVideo] ([TrainingVideoID], [TrainingTrackerID], [DateRecorded]) VALUES (2, 3, CAST(N'2017-11-12 00:00:00.000' AS DateTime))
INSERT [Training].[TrainingVideo] ([TrainingVideoID], [TrainingTrackerID], [DateRecorded]) VALUES (3, 2, CAST(N'2016-12-12 00:00:00.000' AS DateTime))
INSERT [Training].[TrainingVideo] ([TrainingVideoID], [TrainingTrackerID], [DateRecorded]) VALUES (4, 1, CAST(N'2017-03-05 00:00:00.000' AS DateTime))
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (1, 4, N'Eyebrow Re-shape')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (2, 1, N'Short back and sides')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (3, 2, N'Top Knot')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (4, 5, N'Beard Trim')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (5, 3, N'Re-colour')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (6, 13, N'Custom Nail Art')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (7, 8, N'Fringe trim')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (8, 9, N'Slight Colour change')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (9, 9, N'Complete Colour change')
INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (10, 14, N'New Tattoo')

Adam Smith

[n3276931]

INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (11, 14, N'Tattoo Cover-up')

INSERT [Treatment].[Treatment] ([TreatmentID], [TreatmentTypeID], [TreatmentName]) VALUES (12, 7, N'Full Body Tan')

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (1, 2, 1, 1)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (2, 2, 1, 2)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (3, 1, 9, 1)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (4, 1, 9, 25)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (5, 12, 12, 1)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (6, 12, 11, 1)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (7, 4, 1, 1)

INSERT [Treatment].[TreatmentEquipment] ([TreatmentEquipmentID], [TreatmentID], [EquipmentID], [AmountNeeded]) VALUES (8, 10, 13, 1)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (1, 2, 3)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (2, 2, 4)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (3, 4, 7)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (4, 4, 8)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (5, 10, 1)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (6, 10, 2)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (7, 12, 5)

INSERT [Treatment].[TreatmentProductStock] ([TreatmentProductStockID], [TreatmentID], [ProductStockID]) VALUES (8, 12, 6)

INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (1, N'Mens Traditional cut')

INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (2, N'Mens Trend Cut')

INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (3, N'Mens Colouring')

Adam Smith [n3276931]
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (4, N'Eye brows')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (5, N'Beard work')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (6, N'Shaving')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (7, N'Tanning')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (8, N'Womans trim')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (9, N'Womans full head colour')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (10, N'Womans re-style')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (11, N'Gel Nails')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (12, N'Acrylic Nails')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (13, N'Nail Art')
INSERT [Treatment].[TreatmentType] ([TreatmentTypeID], [TreatmentType]) VALUES (14, N'Tattoo')
ALTER TABLE [Booking].[Booking] WITH CHECK ADD CONSTRAINT [FK_Booking_Customer] FOREIGN KEY([CustomerID])
REFERENCES [Customer].[Customer] ([CustomerID])
GO
ALTER TABLE [Booking].[Booking] CHECK CONSTRAINT [FK_Booking_Customer]
GO
ALTER TABLE [Booking].[Booking] WITH CHECK ADD CONSTRAINT [FK_Booking_Employee] FOREIGN KEY([EmployeeID])
REFERENCES [Employee].[Employee] ([EmployeeID])
GO
ALTER TABLE [Booking].[Booking] CHECK CONSTRAINT [FK_Booking_Employee]
GO
ALTER TABLE [Booking].[Booking] WITH CHECK ADD CONSTRAINT [FK_Booking_Salon] FOREIGN KEY([SalonID])
REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])
GO
ALTER TABLE [Booking].[Booking] CHECK CONSTRAINT [FK_Booking_Salon]
GO
ALTER TABLE [Booking].[Booking] WITH CHECK ADD CONSTRAINT [FK_Booking_Treatment] FOREIGN KEY([TreatmentID])
REFERENCES [Treatment].[Treatment] ([TreatmentID])
GO
ALTER TABLE [Booking].[Booking] CHECK CONSTRAINT [FK_Booking_Treatment]

Adam Smith
GO

[n3276931]

ALTER TABLE [Booking].[BookingTime] WITH CHECK ADD CONSTRAINT [FK_BookingTime_Booking] FOREIGN KEY([BookingID])

REFERENCES [Booking].[Booking] ([BookingID])

GO

ALTER TABLE [Booking].[BookingTime] CHECK CONSTRAINT [FK_BookingTime_Booking]

GO

ALTER TABLE [Booking].[Invoice] WITH CHECK ADD CONSTRAINT [FK_Invoice_Booking] FOREIGN KEY([BookingID])

REFERENCES [Booking].[Booking] ([BookingID])

GO

ALTER TABLE [Booking].[Invoice] CHECK CONSTRAINT [FK_Invoice_Booking]

GO

ALTER TABLE [Booking].[Invoice] WITH CHECK ADD CONSTRAINT [FK_Invoice_PaymentMethod] FOREIGN KEY([PaymentMethodID])

REFERENCES [Booking].[PaymentMethod] ([PaymentMethodID])

GO

ALTER TABLE [Booking].[Invoice] CHECK CONSTRAINT [FK_Invoice_PaymentMethod]

GO

ALTER TABLE [Booking].[Invoice] WITH CHECK ADD CONSTRAINT [FK_Invoice_Pricing1] FOREIGN KEY([PriceID])

REFERENCES [Booking].[Pricing] ([PriceID])

GO

ALTER TABLE [Booking].[Invoice] CHECK CONSTRAINT [FK_Invoice_Pricing1]

GO

ALTER TABLE [Booking].[Pricing] WITH CHECK ADD CONSTRAINT [FK_Pricing_Haircut] FOREIGN KEY([TreatmentID])

REFERENCES [Treatment].[Treatment] ([TreatmentID])

GO

ALTER TABLE [Booking].[Pricing] CHECK CONSTRAINT [FK_Pricing_Haircut]

GO

ALTER TABLE [Customer].[Reviews] WITH CHECK ADD CONSTRAINT [FK_Reviews_Customer] FOREIGN KEY([CustomerID])

REFERENCES [Customer].[Customer] ([CustomerID])

GO

ALTER TABLE [Customer].[Reviews] CHECK CONSTRAINT [FK_Reviews_Customer]

Adam Smith

[n3276931]

GO

```
ALTER TABLE [Customer].[Reviews] WITH CHECK ADD CONSTRAINT [FK_Reviews_Salon] FOREIGN KEY([SalonsID])
REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])
```

GO

```
ALTER TABLE [Customer].[Reviews] CHECK CONSTRAINT [FK_Reviews_Salon]
```

GO

```
ALTER TABLE [dbo].[SalonAssets] WITH CHECK ADD CONSTRAINT [FK_SalonAssets_Assets] FOREIGN KEY([AssetID])
REFERENCES [Salon].[Assets] ([AssetID])
```

GO

```
ALTER TABLE [dbo].[SalonAssets] CHECK CONSTRAINT [FK_SalonAssets_Assets]
```

GO

```
ALTER TABLE [dbo].[SalonAssets] WITH CHECK ADD CONSTRAINT [FK_SalonAssets_HairAndBeautySalon] FOREIGN
KEY([SalonID])
```

```
REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])
```

GO

```
ALTER TABLE [dbo].[SalonAssets] CHECK CONSTRAINT [FK_SalonAssets_HairAndBeautySalon]
```

GO

```
ALTER TABLE [Employee].[Employee] WITH CHECK ADD CONSTRAINT [FK_Employee_EmployeeRole] FOREIGN
KEY([EmployeeRoleID])
```

```
REFERENCES [Employee].[EmployeeRole] ([EmployeeRoleID])
```

GO

```
ALTER TABLE [Employee].[Employee] CHECK CONSTRAINT [FK_Employee_EmployeeRole]
```

GO

```
ALTER TABLE [Employee].[Employee] WITH CHECK ADD CONSTRAINT [FK_Employee_HairAndBeautySalon] FOREIGN
KEY([SalonID])
```

```
REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])
```

GO

```
ALTER TABLE [Employee].[Employee] CHECK CONSTRAINT [FK_Employee_HairAndBeautySalon]
```

GO

```
ALTER TABLE [Employee].[EmployeeAccess] WITH CHECK ADD CONSTRAINT [FK_EmployeeAccess_EmployeeRole]
FOREIGN KEY([EmployeeRoleID])
```

```
REFERENCES [Employee].[EmployeeRole] ([EmployeeRoleID])
```

GO

```
ALTER TABLE [Employee].[EmployeeAccess] CHECK CONSTRAINT [FK_EmployeeAccess_EmployeeRole]
```

Adam Smith
GO

[n3276931]

ALTER TABLE [Employee].[EmployeeAccess] WITH CHECK ADD CONSTRAINT
[FK_EmployeeAccess_SystemAuthorization] FOREIGN KEY([SystemAuthorizationID])
REFERENCES [Employee].[SystemAuthorization] ([SystemAuthorizationID])

GO
ALTER TABLE [Employee].[EmployeeAccess] CHECK CONSTRAINT [FK_EmployeeAccess_SystemAuthorization]
GO

ALTER TABLE [Equipment].[Equiptment] WITH CHECK ADD CONSTRAINT [FK_Equiptment_EquiptmentType]
FOREIGN KEY([EquiptmentTypeID])
REFERENCES [Equipment].[EquiptmentType] ([EquiptmentTypeID])

GO
ALTER TABLE [Equipment].[Equiptment] CHECK CONSTRAINT [FK_Equiptment_EquiptmentType]
GO

ALTER TABLE [Equipment].[Maintenance] WITH CHECK ADD CONSTRAINT [FK_Maintenance_Equiptment] FOREIGN
KEY([EquiptmentID])
REFERENCES [Equipment].[Equiptment] ([EquiptmentID])

GO
ALTER TABLE [Equipment].[Maintenance] CHECK CONSTRAINT [FK_Maintenance_Equiptment]
GO

ALTER TABLE [Equipment].[Maintenance] WITH CHECK ADD CONSTRAINT [FK_Maintenance_MaintenanceType]
FOREIGN KEY([MaintenanceTypeID])
REFERENCES [Equipment].[MaintenanceType] ([MaintenanceTypeID])

GO
ALTER TABLE [Equipment].[Maintenance] CHECK CONSTRAINT [FK_Maintenance_MaintenanceType]
GO

ALTER TABLE [Forum].[CustomerProfile] WITH CHECK ADD CONSTRAINT [FK_CustomerProfile_Customer] FOREIGN
KEY([CustomerID])
REFERENCES [Customer].[Customer] ([CustomerID])

GO
ALTER TABLE [Forum].[CustomerProfile] CHECK CONSTRAINT [FK_CustomerProfile_Customer]
GO

ALTER TABLE [Forum].[CustomerProfile] WITH CHECK ADD CONSTRAINT [FK_CustomerProfile_ForumTopic]
FOREIGN KEY([TopicID])
REFERENCES [Forum].[ForumTopic] ([TopicID])

Adam Smith
GO

[n3276931]

ALTER TABLE [Forum].[CustomerProfile] CHECK CONSTRAINT [FK_CustomerProfile_ForumTopic]

GO

ALTER TABLE [Forum].[CustomerProfile] WITH CHECK ADD CONSTRAINT [FK_CustomerProfile_Topic_Post] FOREIGN KEY([PostID])

REFERENCES [Forum].[Topic_Post] ([PostID])

GO

ALTER TABLE [Forum].[CustomerProfile] CHECK CONSTRAINT [FK_CustomerProfile_Topic_Post]

GO

ALTER TABLE [Forum].[ForumTopic] WITH CHECK ADD CONSTRAINT [FK_ForumTopic_CategoryForum] FOREIGN KEY([CategoryForumID])

REFERENCES [Forum].[CategoryForum] ([CategoryTypeID])

GO

ALTER TABLE [Forum].[ForumTopic] CHECK CONSTRAINT [FK_ForumTopic_CategoryForum]

GO

ALTER TABLE [Forum].[Topic_Post] WITH CHECK ADD CONSTRAINT [FK_Topic_Post_ForumTopic] FOREIGN KEY([TopicID])

REFERENCES [Forum].[ForumTopic] ([TopicID])

GO

ALTER TABLE [Forum].[Topic_Post] CHECK CONSTRAINT [FK_Topic_Post_ForumTopic]

GO

ALTER TABLE [Products].[ProductStock] WITH CHECK ADD CONSTRAINT [FK_ProductStock_ProductImage] FOREIGN KEY([ProductImageID])

REFERENCES [Products].[ProductImage] ([ProductImageID])

GO

ALTER TABLE [Products].[ProductStock] CHECK CONSTRAINT [FK_ProductStock_ProductImage]

GO

ALTER TABLE [Products].[ProductStock] WITH CHECK ADD CONSTRAINT [FK_ProductStock_ProductStockType] FOREIGN KEY([ProductStockTypeID])

REFERENCES [Products].[ProductStockType] ([PrductStockTypeID])

GO

ALTER TABLE [Products].[ProductStock] CHECK CONSTRAINT [FK_ProductStock_ProductStockType]

GO

Adam Smith

[n3276931]

```
ALTER TABLE [Products].[ProductStock] WITH CHECK ADD CONSTRAINT [FK_ProductStock_ProductSuppliers]
FOREIGN KEY([SupplierID])
```

```
REFERENCES [Products].[ProductSuppliers] ([SupplierID])
```

GO

```
ALTER TABLE [Products].[ProductStock] CHECK CONSTRAINT [FK_ProductStock_ProductSuppliers]
```

GO

```
ALTER TABLE [Products].[ProductStockLevel] WITH CHECK ADD CONSTRAINT [FK_ProductStockLevel_ProductStock]
FOREIGN KEY([ProductStockID])
```

```
REFERENCES [Products].[ProductStock] ([ProductStockID])
```

GO

```
ALTER TABLE [Products].[ProductStockLevel] CHECK CONSTRAINT [FK_ProductStockLevel_ProductStock]
```

GO

```
ALTER TABLE [Salon].[Assets] WITH CHECK ADD CONSTRAINT [FK_Assets_AssetCategories] FOREIGN
KEY([AssetCategoryID])
```

```
REFERENCES [Salon].[AssetCategories] ([AssetCategoryID])
```

GO

```
ALTER TABLE [Salon].[Assets] CHECK CONSTRAINT [FK_Assets_AssetCategories]
```

GO

```
ALTER TABLE [Salon].[SalonAssets] WITH CHECK ADD CONSTRAINT [FK_SalonAssets_Assets] FOREIGN KEY([AssetID])
```

```
REFERENCES [Salon].[Assets] ([AssetID])
```

GO

```
ALTER TABLE [Salon].[SalonAssets] CHECK CONSTRAINT [FK_SalonAssets_Assets]
```

GO

```
ALTER TABLE [Salon].[SalonAssets] WITH CHECK ADD CONSTRAINT [FK_SalonAssets_HairAndBeautySalon] FOREIGN
KEY([SalonID])
```

```
REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])
```

GO

```
ALTER TABLE [Salon].[SalonAssets] CHECK CONSTRAINT [FK_SalonAssets_HairAndBeautySalon]
```

GO

```
ALTER TABLE [Salon].[SalonOpeningTime] WITH CHECK ADD CONSTRAINT
[FK_SalonOpeningTime_HairAndBeautySalon] FOREIGN KEY([SalonID])
```

```
REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])
```

GO

```
ALTER TABLE [Salon].[SalonOpeningTime] CHECK CONSTRAINT [FK_SalonOpeningTime_HairAndBeautySalon]
```

ALTER TABLE [Training].[EmployeeTraining] WITH CHECK ADD CONSTRAINT [FK_EmployeeTraining_Employee]
FOREIGN KEY([EmployeeID])

REFERENCES [Employee].[Employee] ([EmployeeID])

GO

ALTER TABLE [Training].[EmployeeTraining] CHECK CONSTRAINT [FK_EmployeeTraining_Employee]

GO

ALTER TABLE [Training].[EmployeeTraining] WITH CHECK ADD CONSTRAINT [FK_EmployeeTraining_TrainingActivity]
FOREIGN KEY([TrainingActivityID])

REFERENCES [Training].[TrainingActivity] ([TrainingActivityID])

GO

ALTER TABLE [Training].[EmployeeTraining] CHECK CONSTRAINT [FK_EmployeeTraining_TrainingActivity]

GO

ALTER TABLE [Training].[TrainingActivity] WITH CHECK ADD CONSTRAINT [FK_TrainingActivity_TrainingCategory]
FOREIGN KEY([TrainingCategoryID])

REFERENCES [Training].[TrainingCategory] ([TrainingCategoryID])

GO

ALTER TABLE [Training].[TrainingActivity] CHECK CONSTRAINT [FK_TrainingActivity_TrainingCategory]

GO

ALTER TABLE [Training].[TrainingCategory] WITH CHECK ADD CONSTRAINT [FK_TrainingCategory_Salon] FOREIGN
KEY([SalonID])

REFERENCES [Salon].[HairAndBeautySalon] ([SalonID])

GO

ALTER TABLE [Training].[TrainingCategory] CHECK CONSTRAINT [FK_TrainingCategory_Salon]

GO

ALTER TABLE [Training].[TrainingVideo] WITH CHECK ADD CONSTRAINT [FK_TrainingRecorded_EmployeeTraining]
FOREIGN KEY([TrainingTrackerID])

REFERENCES [Training].[EmployeeTraining] ([TrainingTrackerID])

GO

ALTER TABLE [Training].[TrainingVideo] CHECK CONSTRAINT [FK_TrainingRecorded_EmployeeTraining]

GO

ALTER TABLE [Treatment].[Treatment] WITH CHECK ADD CONSTRAINT [FK_Treatment_TreatmentType] FOREIGN
KEY([TreatmentTypeID])

REFERENCES [Treatment].[TreatmentType] ([TreatmentTypeID])

Adam Smith
GO

[n3276931]

ALTER TABLE [Treatment].[Treatment] CHECK CONSTRAINT [FK_Treatment_TreatmentType]

GO

ALTER TABLE [Treatment].[TreatmentEquiptment] WITH CHECK ADD CONSTRAINT
[FK_TreatmentEquiptment_Equiptment1] FOREIGN KEY([EquiptmentID])

REFERENCES [Equipment].[Equiptment] ([EquiptmentID])

GO

ALTER TABLE [Treatment].[TreatmentEquiptment] CHECK CONSTRAINT [FK_TreatmentEquiptment_Equiptment1]

GO

ALTER TABLE [Treatment].[TreatmentEquiptment] WITH CHECK ADD CONSTRAINT
[FK_TreatmentEquiptment_Treatment] FOREIGN KEY([TreatmentID])

REFERENCES [Treatment].[Treatment] ([TreatmentID])

GO

ALTER TABLE [Treatment].[TreatmentEquiptment] CHECK CONSTRAINT [FK_TreatmentEquiptment_Treatment]

GO

ALTER TABLE [Treatment].[TreatmentProductStock] WITH CHECK ADD CONSTRAINT
[FK_TreatmentProductStock_ProductStock] FOREIGN KEY([ProductStockID])

REFERENCES [Products].[ProductStock] ([ProductStockID])

GO

ALTER TABLE [Treatment].[TreatmentProductStock] CHECK CONSTRAINT [FK_TreatmentProductStock_ProductStock]

GO

ALTER TABLE [Treatment].[TreatmentProductStock] WITH CHECK ADD CONSTRAINT
[FK_TreatmentProductStock_Treatment] FOREIGN KEY([TreatmentID])

REFERENCES [Treatment].[Treatment] ([TreatmentID])

GO

ALTER TABLE [Treatment].[TreatmentProductStock] CHECK CONSTRAINT [FK_TreatmentProductStock_Treatment]

GO

***** Object: StoredProcedure [dbo].[GetGuappoBookings] Script Date: 12/05/2017 21:58:07 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[GetGuappoBookings]

AS

```
    SELECT S.Name, S.Address, B.Confirmed, B.[Notes]

    FROM Booking.Booking AS B

    INNER JOIN Salon.HairAndBeautySalon AS S

    ON B.SalonID = S.SalonID

    Where S.[Name] = 'Guappo Hair Design'
```

GO

```
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFFF, 1.00]
```

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[46] 4[15] 2[33] 3))"

End

Begin PaneConfiguration = 1

NumPanes = 3

Configuration = "(H (1 [50] 4 [25] 3))"

End

Begin PaneConfiguration = 2

NumPanes = 3

Configuration = "(H (1 [50] 2 [25] 3))"

End

Begin PaneConfiguration = 3

NumPanes = 3

Configuration = "(H (4 [30] 2 [40] 3))"

End

Begin PaneConfiguration = 4

NumPanes = 2

Configuration = "(H (1 [56] 3))"

End

Begin PaneConfiguration = 5

NumPanes = 2

Configuration = "(H (2 [66] 3))"

Adam Smith
End

[n3276931]

Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"
End
Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"
End
Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2))"
End
Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2))"
End
Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1))"
End
Begin PaneConfiguration = 13
NumPanes = 1
Configuration = "(V (4))"

Adam Smith
End

[n3276931]

Begin PaneConfiguration = 14

NumPanes = 1

Configuration = "(V (2))"

End

ActivePaneConfig = 0

End

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

End

Begin Tables =

Begin Table = "TreatmentType (Treatment)"

Begin Extent =

Top = 6

Left = 673

Bottom = 102

Right = 854

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Treatment (Treatment)"

Begin Extent =

Top = 6

Left = 454

Bottom = 119

Right = 635

End

DisplayFlags = 280

TopColumn = 0

Adam Smith

End

[n3276931]

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 11

Left = 193

Bottom = 196

Right = 363

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "BookingTime (Booking)"

Begin Extent =

Top = 105

Left = 463

Bottom = 272

Right = 634

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Booking (Booking)"

Begin Extent =

Top = 19

Left = 1

Bottom = 149

Right = 171

End

DisplayFlags = 280

TopColumn = 0

End

End

Adam Smith [n3276931]
End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane2', @value=N' = 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=2 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Bookings'

GO

Adam Smith [n3276931]
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]

Begin DesignProperties =

 Begin PaneConfigurations =

 Begin PaneConfiguration = 0

 NumPanes = 4

 Configuration = "(H (1[41] 4[20] 2[28] 3))"

 End

 Begin PaneConfiguration = 1

 NumPanes = 3

 Configuration = "(H (1 [50] 4 [25] 3))"

 End

 Begin PaneConfiguration = 2

 NumPanes = 3

 Configuration = "(H (1 [50] 2 [25] 3))"

 End

 Begin PaneConfiguration = 3

 NumPanes = 3

 Configuration = "(H (4 [30] 2 [40] 3))"

 End

 Begin PaneConfiguration = 4

 NumPanes = 2

 Configuration = "(H (1 [56] 3))"

 End

 Begin PaneConfiguration = 5

 NumPanes = 2

 Configuration = "(H (2 [66] 3))"

 End

 Begin PaneConfiguration = 6

 NumPanes = 2

 Configuration = "(H (4 [50] 3))"

 End

 Begin PaneConfiguration = 7

Adam Smith

[n3276931]

NumPanes = 1

Configuration = "(V (3))"

End

Begin PaneConfiguration = 8

NumPanes = 3

Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9

NumPanes = 2

Configuration = "(H (1 [75] 4))"

End

Begin PaneConfiguration = 10

NumPanes = 2

Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11

NumPanes = 2

Configuration = "(H (4 [60] 2))"

End

Begin PaneConfiguration = 12

NumPanes = 1

Configuration = "(H (1))"

End

Begin PaneConfiguration = 13

NumPanes = 1

Configuration = "(V (4))"

End

Begin PaneConfiguration = 14

NumPanes = 1

Configuration = "(V (2))"

End

ActivePaneConfig = 0

Adam Smith
End

[n3276931]

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

End

Begin Tables =

Begin Table = "TreatmentType (Treatment)"

Begin Extent =

Top = 6

Left = 38

Bottom = 102

Right = 219

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Treatment (Treatment)"

Begin Extent =

Top = 6

Left = 257

Bottom = 119

Right = 438

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Booking (Booking)"

Begin Extent =

Top = 6

Left = 476

Bottom = 136

Adam Smith [n3276931]

Right = 646

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 6

Left = 684

Bottom = 136

Right = 854

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "BookingTime (Booking)"

Begin Extent =

Top = 102

Left = 38

Bottom = 232

Right = 209

End

DisplayFlags = 280

TopColumn = 0

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

Adam Smith [n3276931]

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = ' , @level0type=N'SCHEMA',@level0name=N'dbo',
@level1type=N'VIEW',@level1name=N'All_Future_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane2', @value=N' 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Future_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=2 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Future_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFF, 1.00]

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Adam Smith

[n3276931]

Configuration = "(H (1[41] 4[7] 2[33] 3))"

End

Begin PaneConfiguration = 1

NumPanes = 3

Configuration = "(H (1 [50] 4 [25] 3))"

End

Begin PaneConfiguration = 2

NumPanes = 3

Configuration = "(H (1 [50] 2 [25] 3))"

End

Begin PaneConfiguration = 3

NumPanes = 3

Configuration = "(H (4 [30] 2 [40] 3))"

End

Begin PaneConfiguration = 4

NumPanes = 2

Configuration = "(H (1 [56] 3))"

End

Begin PaneConfiguration = 5

NumPanes = 2

Configuration = "(H (2 [66] 3))"

End

Begin PaneConfiguration = 6

NumPanes = 2

Configuration = "(H (4 [50] 3))"

End

Begin PaneConfiguration = 7

NumPanes = 1

Configuration = "(V (3))"

End

Begin PaneConfiguration = 8

NumPanes = 3

Adam Smith
Configuration = "(H (1[56] 4[18] 2))"

[n3276931]

End

Begin PaneConfiguration = 9

NumPanes = 2

Configuration = "(H (1 [75] 4))"

End

Begin PaneConfiguration = 10

NumPanes = 2

Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11

NumPanes = 2

Configuration = "(H (4 [60] 2))"

End

Begin PaneConfiguration = 12

NumPanes = 1

Configuration = "(H (1))"

End

Begin PaneConfiguration = 13

NumPanes = 1

Configuration = "(V (4))"

End

Begin PaneConfiguration = 14

NumPanes = 1

Configuration = "(V (2))"

End

ActivePaneConfig = 0

End

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

Adam Smith
End

[n3276931]

Begin Tables =

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 6

Left = 38

Bottom = 136

Right = 208

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "HairAndBeautySalon (Salon)"

Begin Extent =

Top = 6

Left = 246

Bottom = 136

Right = 438

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Reviews (Customer)"

Begin Extent =

Top = 6

Left = 476

Bottom = 136

Right = 646

End

DisplayFlags = 280

TopColumn = 1

End

Adam Smith [n3276931]

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Reviews'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'All_Reviews'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]

Adam Smith

[n3276931]

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[60] 4[3] 2[23] 3))"

End

Begin PaneConfiguration = 1

NumPanes = 3

Configuration = "(H (1 [50] 4 [25] 3))"

End

Begin PaneConfiguration = 2

NumPanes = 3

Configuration = "(H (1 [50] 2 [25] 3))"

End

Begin PaneConfiguration = 3

NumPanes = 3

Configuration = "(H (4 [30] 2 [40] 3))"

End

Begin PaneConfiguration = 4

NumPanes = 2

Configuration = "(H (1 [56] 3))"

End

Begin PaneConfiguration = 5

NumPanes = 2

Configuration = "(H (2 [66] 3))"

End

Begin PaneConfiguration = 6

NumPanes = 2

Configuration = "(H (4 [50] 3))"

End

Begin PaneConfiguration = 7

NumPanes = 1

Adam Smith
Configuration = "(V (3))"

[n3276931]

End

Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1))"

End

Begin PaneConfiguration = 13
NumPanes = 1
Configuration = "(V (4))"

End

Begin PaneConfiguration = 14
NumPanes = 1
Configuration = "(V (2))"

End

ActivePaneConfig = 0

End

Adam Smith [n3276931]

Begin DiagramPane =

Begin Origin =

Top = 0

Left = -32

End

Begin Tables =

Begin Table = "CategoryForum (Forum)"

Begin Extent =

Top = 6

Left = 70

Bottom = 102

Right = 244

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 6

Left = 282

Bottom = 136

Right = 452

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "CustomerProfile (Forum)"

Begin Extent =

Top = 6

Left = 490

Bottom = 136

Right = 676

Adam Smith [n3276931]
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "ForumTopic (Forum)"
Begin Extent =
Top = 102
Left = 70
Bottom = 232
Right = 253
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "Topic_Post (Forum)"
Begin Extent =
Top = 138
Left = 291
Bottom = 268
Right = 461
End
DisplayFlags = 280
TopColumn = 0
End
End
Begin SQLPane =
End
Begin DataPane =
Begin ParameterDefaults = ""
End
End

Adam Smith [n3276931]

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = ', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'forum'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane2', @value=N'1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'forum'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=2 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'forum'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFFF, 1.00]

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[53] 4[5] 2[37] 3))"

End

Adam Smith

[n3276931]

```
Begin PaneConfiguration = 1
    NumPanes = 3
    Configuration = "(H (1 [50] 4 [25] 3))"
End

Begin PaneConfiguration = 2
    NumPanes = 3
    Configuration = "(H (1 [50] 2 [25] 3))"
End

Begin PaneConfiguration = 3
    NumPanes = 3
    Configuration = "(H (4 [30] 2 [40] 3))"
End

Begin PaneConfiguration = 4
    NumPanes = 2
    Configuration = "(H (1 [56] 3))"
End

Begin PaneConfiguration = 5
    NumPanes = 2
    Configuration = "(H (2 [66] 3))"
End

Begin PaneConfiguration = 6
    NumPanes = 2
    Configuration = "(H (4 [50] 3))"
End

Begin PaneConfiguration = 7
    NumPanes = 1
    Configuration = "(V (3))"
End

Begin PaneConfiguration = 8
    NumPanes = 3
    Configuration = "(H (1[56] 4[18] 2) )"
End
```

Adam Smith

[n3276931]

```
Begin PaneConfiguration = 9
    NumPanes = 2
    Configuration = "(H (1 [75] 4))"
End

Begin PaneConfiguration = 10
    NumPanes = 2
    Configuration = "(H (1[66] 2) )"
End

Begin PaneConfiguration = 11
    NumPanes = 2
    Configuration = "(H (4 [60] 2))"
End

Begin PaneConfiguration = 12
    NumPanes = 1
    Configuration = "(H (1) )"
End

Begin PaneConfiguration = 13
    NumPanes = 1
    Configuration = "(V (4))"
End

Begin PaneConfiguration = 14
    NumPanes = 1
    Configuration = "(V (2))"
End

ActivePaneConfig = 0
End

Begin DiagramPane =
    Begin Origin =
        Top = 0
        Left = 0
    End

    Begin Tables =

```

Adam Smith

[n3276931]

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 172

Left = 20

Bottom = 428

Right = 190

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "HairAndBeautySalon (Salon)"

Begin Extent =

Top = 61

Left = 934

Bottom = 347

Right = 1126

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Pricing (Booking)"

Begin Extent =

Top = 303

Left = 713

Bottom = 416

Right = 883

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Treatment (Treatment)"

Begin Extent =

Adam Smith [n3276931]
Top = 305
Left = 484
Bottom = 425
Right = 665
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "Booking (Booking)"
Begin Extent =
Top = 205
Left = 228
Bottom = 404
Right = 398
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "Employee (Employee)"
Begin Extent =
Top = 9
Left = 484
Bottom = 192
Right = 659
End
DisplayFlags = 280
TopColumn = 0
End
End
Begin SQLPane =
End

Adam Smith [n3276931]
Begin DataPane =
 Begin ParameterDefaults = ""
 End
 End
Begin Criteri' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Invoice'
GO
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane2', @value=N'aPane =
 Begin ColumnWidths = 11
 Column = 1440
 Alias = 900
 Table = 1170
 Output = 720
 Append = 1400
 NewValue = 1170
 SortType = 1350
 SortOrder = 1410
 GroupBy = 1350
 Filter = 1350
 Or = 1350
 Or = 1350
 Or = 1350
 End
End
End
' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Invoice'
GO
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=2 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Invoice'
GO
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFFF, 1.00]
Begin DesignProperties =
 Begin PaneConfigurations =

Adam Smith

[n3276931]

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[40] 4[20] 2[20] 3))"

End

Begin PaneConfiguration = 1

NumPanes = 3

Configuration = "(H (1 [50] 4 [25] 3))"

End

Begin PaneConfiguration = 2

NumPanes = 3

Configuration = "(H (1 [50] 2 [25] 3))"

End

Begin PaneConfiguration = 3

NumPanes = 3

Configuration = "(H (4 [30] 2 [40] 3))"

End

Begin PaneConfiguration = 4

NumPanes = 2

Configuration = "(H (1 [56] 3))"

End

Begin PaneConfiguration = 5

NumPanes = 2

Configuration = "(H (2 [66] 3))"

End

Begin PaneConfiguration = 6

NumPanes = 2

Configuration = "(H (4 [50] 3))"

End

Begin PaneConfiguration = 7

NumPanes = 1

Configuration = "(V (3))"

End

Adam Smith

[n3276931]

```
Begin PaneConfiguration = 8
    NumPanes = 3
    Configuration = "(H (1[56] 4[18] 2) )"
End

Begin PaneConfiguration = 9
    NumPanes = 2
    Configuration = "(H (1 [75] 4))"
End

Begin PaneConfiguration = 10
    NumPanes = 2
    Configuration = "(H (1[66] 2) )"
End

Begin PaneConfiguration = 11
    NumPanes = 2
    Configuration = "(H (4 [60] 2))"
End

Begin PaneConfiguration = 12
    NumPanes = 1
    Configuration = "(H (1) )"
End

Begin PaneConfiguration = 13
    NumPanes = 1
    Configuration = "(V (4))"
End

Begin PaneConfiguration = 14
    NumPanes = 1
    Configuration = "(V (2))"
End

ActivePaneConfig = 0
End

Begin DiagramPane =
    Begin Origin =

```

Adam Smith
Top = 0

[n3276931]

Left = 0

End

Begin Tables =

Begin Table = "Equipment (Equipment)"

Begin Extent =

Top = 6

Left = 38

Bottom = 149

Right = 226

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "EquipmentType (Equipment)"

Begin Extent =

Top = 6

Left = 264

Bottom = 127

Right = 473

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Maintenance (Equipment)"

Begin Extent =

Top = 6

Left = 511

Bottom = 176

Right = 738

End

DisplayFlags = 280

Adam Smith
TopColumn = 0

[n3276931]

End

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Maintenance_Date'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Maintenance_Date'

GO

Adam Smith [n3276931]
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]

Begin DesignProperties =

 Begin PaneConfigurations =

 Begin PaneConfiguration = 0

 NumPanes = 4

 Configuration = "(H (1[40] 4[20] 2[20] 3))"

 End

 Begin PaneConfiguration = 1

 NumPanes = 3

 Configuration = "(H (1 [50] 4 [25] 3))"

 End

 Begin PaneConfiguration = 2

 NumPanes = 3

 Configuration = "(H (1 [50] 2 [25] 3))"

 End

 Begin PaneConfiguration = 3

 NumPanes = 3

 Configuration = "(H (4 [30] 2 [40] 3))"

 End

 Begin PaneConfiguration = 4

 NumPanes = 2

 Configuration = "(H (1 [56] 3))"

 End

 Begin PaneConfiguration = 5

 NumPanes = 2

 Configuration = "(H (2 [66] 3))"

 End

 Begin PaneConfiguration = 6

 NumPanes = 2

 Configuration = "(H (4 [50] 3))"

 End

 Begin PaneConfiguration = 7

Adam Smith

[n3276931]

NumPanes = 1

Configuration = "(V (3))"

End

Begin PaneConfiguration = 8

NumPanes = 3

Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9

NumPanes = 2

Configuration = "(H (1 [75] 4))"

End

Begin PaneConfiguration = 10

NumPanes = 2

Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11

NumPanes = 2

Configuration = "(H (4 [60] 2))"

End

Begin PaneConfiguration = 12

NumPanes = 1

Configuration = "(H (1))"

End

Begin PaneConfiguration = 13

NumPanes = 1

Configuration = "(V (4))"

End

Begin PaneConfiguration = 14

NumPanes = 1

Configuration = "(V (2))"

End

ActivePaneConfig = 0

Adam Smith
End

[n3276931]

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

End

Begin Tables =

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 6

Left = 38

Bottom = 136

Right = 208

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Reviews (Customer)"

Begin Extent =

Top = 6

Left = 246

Bottom = 136

Right = 416

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "HairAndBeautySalon (Salon)"

Begin Extent =

Top = 6

Left = 454

Bottom = 136

Adam Smith
Right = 646

[n3276931]

End

DisplayFlags = 280

TopColumn = 0

End

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Negative_Reviews'

```
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Negative_Reviews'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFFF, 1.00]

Begin DesignProperties =
    Begin PaneConfigurations =
        Begin PaneConfiguration = 0
            NumPanes = 4
            Configuration = "(H (1[40] 4[20] 2[20] 3) )"
        End
        Begin PaneConfiguration = 1
            NumPanes = 3
            Configuration = "(H (1 [50] 4 [25] 3))"
        End
        Begin PaneConfiguration = 2
            NumPanes = 3
            Configuration = "(H (1 [50] 2 [25] 3))"
        End
        Begin PaneConfiguration = 3
            NumPanes = 3
            Configuration = "(H (4 [30] 2 [40] 3))"
        End
        Begin PaneConfiguration = 4
            NumPanes = 2
            Configuration = "(H (1 [56] 3))"
        End
        Begin PaneConfiguration = 5
            NumPanes = 2
            Configuration = "(H (2 [66] 3))"
        End
        Begin PaneConfiguration = 6
```

Adam Smith

[n3276931]

NumPanes = 2

Configuration = "(H (4 [50] 3))"

End

Begin PaneConfiguration = 7

NumPanes = 1

Configuration = "(V (3))"

End

Begin PaneConfiguration = 8

NumPanes = 3

Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9

NumPanes = 2

Configuration = "(H (1 [75] 4))"

End

Begin PaneConfiguration = 10

NumPanes = 2

Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11

NumPanes = 2

Configuration = "(H (4 [60] 2))"

End

Begin PaneConfiguration = 12

NumPanes = 1

Configuration = "(H (1))"

End

Begin PaneConfiguration = 13

NumPanes = 1

Configuration = "(V (4))"

End

Begin PaneConfiguration = 14

Adam Smith
NumPanes = 1
Configuration = "(V (2))"
End
ActivePaneConfig = 0
End
Begin DiagramPane =
Begin Origin =
Top = 0
Left = 0
End
Begin Tables =
Begin Table = "TreatmentType (Treatment)"
Begin Extent =
Top = 6
Left = 38
Bottom = 102
Right = 219
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "Treatment (Treatment)"
Begin Extent =
Top = 6
Left = 257
Bottom = 119
Right = 438
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "Booking (Booking)"

[n3276931]

Adam Smith
Begin Extent =

[n3276931]

Top = 6
Left = 476
Bottom = 136
Right = 646

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Customer (Customer)"

Begin Extent =
Top = 6
Left = 684
Bottom = 136
Right = 854

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "BookingTime (Booking)"

Begin Extent =
Top = 102
Left = 38
Bottom = 232
Right = 209

End

DisplayFlags = 280

TopColumn = 0

End

End

End

Begin SQLPane =

Adam Smith [n3276931]
End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter =' , @level0type=N'SCHEMA',@level0name=N'dbo',
@level1type=N'VIEW',@level1name=N'Next_Month_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane2', @value=N' 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Next_Month_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=2 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Next_Month_Bookings'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFF, 1.00]

Adam Smith
Begin DesignProperties =

[n3276931]

Begin PaneConfigurations =
Begin PaneConfiguration = 0
NumPanes = 4
Configuration = "(H (1[40] 4[20] 2[20] 3))"
End
Begin PaneConfiguration = 1
NumPanes = 3
Configuration = "(H (1 [50] 4 [25] 3))"
End
Begin PaneConfiguration = 2
NumPanes = 3
Configuration = "(H (1 [50] 2 [25] 3))"
End
Begin PaneConfiguration = 3
NumPanes = 3
Configuration = "(H (4 [30] 2 [40] 3))"
End
Begin PaneConfiguration = 4
NumPanes = 2
Configuration = "(H (1 [56] 3))"
End
Begin PaneConfiguration = 5
NumPanes = 2
Configuration = "(H (2 [66] 3))"
End
Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"
End
Begin PaneConfiguration = 7
NumPanes = 1

Adam Smith
Configuration = "(V (3))"

[n3276931]

End

Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1))"

End

Begin PaneConfiguration = 13
NumPanes = 1
Configuration = "(V (4))"
End

Begin PaneConfiguration = 14
NumPanes = 1
Configuration = "(V (2))"
End
ActivePaneConfig = 0
End

Adam Smith [n3276931]

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

End

Begin Tables =

Begin Table = "Customer (Customer)"

Begin Extent =

Top = 6

Left = 38

Bottom = 136

Right = 208

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Reviews (Customer)"

Begin Extent =

Top = 6

Left = 246

Bottom = 136

Right = 416

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "HairAndBeautySalon (Salon)"

Begin Extent =

Top = 6

Left = 454

Bottom = 136

Right = 646

Adam Smith [n3276931]
End

DisplayFlags = 280

TopColumn = 0

End

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Positive_Reviews'

GO

Adam Smith

[n3276931]

```
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,  
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Positive_Reviews'
```

GO

```
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-  
00AA00A3EFF, 1.00]
```

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[40] 4[20] 2[20] 3))"

End

Begin PaneConfiguration = 1

NumPanes = 3

Configuration = "(H (1 [50] 4 [25] 3))"

End

Begin PaneConfiguration = 2

NumPanes = 3

Configuration = "(H (1 [50] 2 [25] 3))"

End

Begin PaneConfiguration = 3

NumPanes = 3

Configuration = "(H (4 [30] 2 [40] 3))"

End

Begin PaneConfiguration = 4

NumPanes = 2

Configuration = "(H (1 [56] 3))"

End

Begin PaneConfiguration = 5

NumPanes = 2

Configuration = "(H (2 [66] 3))"

End

Begin PaneConfiguration = 6

NumPanes = 2

Adam Smith
Configuration = "(H (4 [50] 3))"

[n3276931]

End

Begin PaneConfiguration = 7

NumPanes = 1

Configuration = "(V (3))"

End

Begin PaneConfiguration = 8

NumPanes = 3

Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9

NumPanes = 2

Configuration = "(H (1 [75] 4))"

End

Begin PaneConfiguration = 10

NumPanes = 2

Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11

NumPanes = 2

Configuration = "(H (4 [60] 2))"

End

Begin PaneConfiguration = 12

NumPanes = 1

Configuration = "(H (1))"

End

Begin PaneConfiguration = 13

NumPanes = 1

Configuration = "(V (4))"

End

Begin PaneConfiguration = 14

NumPanes = 1

Adam Smith
Configuration = "(V (2))"

[n3276931]

End

ActivePaneConfig = 0

End

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

End

Begin Tables =

Begin Table = "Pricing (Booking)"

Begin Extent =

Top = 16

Left = 38

Bottom = 129

Right = 208

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Treatment (Treatment)"

Begin Extent =

Top = 15

Left = 294

Bottom = 128

Right = 475

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "TreatmentType (Treatment)"

Begin Extent =

Adam Smith

[n3276931]

Top = 7

Left = 547

Bottom = 103

Right = 728

End

DisplayFlags = 280

TopColumn = 0

End

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

Adam Smith [n3276931]
End
End
' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Price_List_View'
GO
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Price_List_View'
GO
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFF, 1.00]
Begin DesignProperties =
Begin PaneConfigurations =
Begin PaneConfiguration = 0
NumPanes = 4
Configuration = "(H (1[40] 4[20] 2[20] 3))"
End
Begin PaneConfiguration = 1
NumPanes = 3
Configuration = "(H (1 [50] 4 [25] 3))"
End
Begin PaneConfiguration = 2
NumPanes = 3
Configuration = "(H (1 [50] 2 [25] 3))"
End
Begin PaneConfiguration = 3
NumPanes = 3
Configuration = "(H (4 [30] 2 [40] 3))"
End
Begin PaneConfiguration = 4
NumPanes = 2
Configuration = "(H (1 [56] 3))"
End
Begin PaneConfiguration = 5
NumPanes = 2

Adam Smith
Configuration = "(H (2 [66] 3))"

[n3276931]

End

Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"

End

Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"
End
Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End

Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1))"
End
Begin PaneConfiguration = 13
NumPanes = 1

Adam Smith
Configuration = "(V (4))"

[n3276931]

End

Begin PaneConfiguration = 14

NumPanes = 1

Configuration = "(V (2))"

End

ActivePaneConfig = 0

End

Begin DiagramPane =

Begin Origin =

Top = 0

Left = 0

End

Begin Tables =

Begin Table = "Pricing (Booking)"

Begin Extent =

Top = 6

Left = 38

Bottom = 119

Right = 208

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Treatment (Treatment)"

Begin Extent =

Top = 6

Left = 246

Bottom = 119

Right = 427

End

DisplayFlags = 280

Adam Smith [n3276931]
TopColumn = 0
End
Begin Table = "TreatmentType (Treatment)"
Begin Extent =
Top = 6
Left = 465
Bottom = 102
Right = 646
End
DisplayFlags = 280
TopColumn = 0
End
End
Begin SQLPane =
End
Begin DataPane =
Begin ParameterDefaults = ""
End
End
Begin CriteriaPane =
Begin ColumnWidths = 11
Column = 1440
Alias = 900
Table = 1170
Output = 720
Append = 1400
NewValue = 1170
SortType = 1350
SortOrder = 1410
GroupBy = 1350
Filter = 1350

Adam Smith [n3276931]

Or = 1350

Or = 1350

Or = 1350

End

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Price_Specific_View'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Price_Specific_View'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-
00AA00A3EFFF, 1.00]

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[40] 4[20] 2[20] 3))"

End

Begin PaneConfiguration = 1

NumPanes = 3

Configuration = "(H (1 [50] 4 [25] 3))"

End

Begin PaneConfiguration = 2

NumPanes = 3

Configuration = "(H (1 [50] 2 [25] 3))"

End

Begin PaneConfiguration = 3

NumPanes = 3

Configuration = "(H (4 [30] 2 [40] 3))"

End

Begin PaneConfiguration = 4

NumPanes = 2

Adam Smith
Configuration = "(H (1 [56] 3))"

[n3276931]

End

Begin PaneConfiguration = 5
NumPanes = 2
Configuration = "(H (2 [66] 3))"

End

Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"

End

Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"

End

Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2))"

End

Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"

End

Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2))"

End

Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"

End

Begin PaneConfiguration = 12
NumPanes = 1

Adam Smith [n3276931]
Configuration = "(H (1))"
End
Begin PaneConfiguration = 13
NumPanes = 1
Configuration = "(V (4))"
End
Begin PaneConfiguration = 14
NumPanes = 1
Configuration = "(V (2))"
End
ActivePaneConfig = 0
End
Begin DiagramPane =
Begin Origin =
Top = 0
Left = 0
End
Begin Tables =
Begin Table = "TrainingActivity (Training)"
Begin Extent =
Top = 100
Left = 836
Bottom = 232
Right = 1028
End
DisplayFlags = 280
TopColumn = 0
End
Begin Table = "EmployeeTraining (Training)"
Begin Extent =
Top = 59
Left = 568

Adam Smith

[n3276931]

Bottom = 259

Right = 801

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "Employee (Employee)"

Begin Extent =

Top = 94

Left = 352

Bottom = 275

Right = 527

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "HairAndBeautySalon (Salon)"

Begin Extent =

Top = 10

Left = 114

Bottom = 297

Right = 306

End

DisplayFlags = 280

TopColumn = 0

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

Adam Smith [n3276931]
End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

End

', @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Training_Failed'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Training_Failed'

GO

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFF, 1.00]

Begin DesignProperties =

Begin PaneConfigurations =

Begin PaneConfiguration = 0

NumPanes = 4

Configuration = "(H (1[46] 4[3] 2[33] 3))"

End

Adam Smith

[n3276931]

```
Begin PaneConfiguration = 1
    NumPanes = 3
    Configuration = "(H (1 [50] 4 [25] 3))"
End

Begin PaneConfiguration = 2
    NumPanes = 3
    Configuration = "(H (1 [50] 2 [25] 3))"
End

Begin PaneConfiguration = 3
    NumPanes = 3
    Configuration = "(H (4 [30] 2 [40] 3))"
End

Begin PaneConfiguration = 4
    NumPanes = 2
    Configuration = "(H (1 [56] 3))"
End

Begin PaneConfiguration = 5
    NumPanes = 2
    Configuration = "(H (2 [66] 3))"
End

Begin PaneConfiguration = 6
    NumPanes = 2
    Configuration = "(H (4 [50] 3))"
End

Begin PaneConfiguration = 7
    NumPanes = 1
    Configuration = "(V (3))"
End

Begin PaneConfiguration = 8
    NumPanes = 3
    Configuration = "(H (1[56] 4[18] 2) )"
End
```

Adam Smith

[n3276931]

```
Begin PaneConfiguration = 9
    NumPanes = 2
    Configuration = "(H (1 [75] 4))"
End

Begin PaneConfiguration = 10
    NumPanes = 2
    Configuration = "(H (1[66] 2) )"
End

Begin PaneConfiguration = 11
    NumPanes = 2
    Configuration = "(H (4 [60] 2))"
End

Begin PaneConfiguration = 12
    NumPanes = 1
    Configuration = "(H (1) )"
End

Begin PaneConfiguration = 13
    NumPanes = 1
    Configuration = "(V (4))"
End

Begin PaneConfiguration = 14
    NumPanes = 1
    Configuration = "(V (2))"
End

ActivePaneConfig = 0
End

Begin DiagramPane =
    Begin Origin =
        Top = 0
        Left = 0
    End

    Begin Tables =

```

Adam Smith

[n3276931]

Begin Table = "TrainingActivity (Training)"

Begin Extent =

Top = 126

Left = 23

Bottom = 258

Right = 215

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "EmployeeTraining (Training)"

Begin Extent =

Top = 74

Left = 302

Bottom = 271

Right = 535

End

DisplayFlags = 280

TopColumn = 4

End

Begin Table = "Employee (Employee)"

Begin Extent =

Top = 63

Left = 632

Bottom = 244

Right = 807

End

DisplayFlags = 280

TopColumn = 0

End

Begin Table = "HairAndBeautySalon (Salon)"

Begin Extent =

Adam Smith

[n3276931]

Top = 52

Left = 940

Bottom = 333

Right = 1132

End

DisplayFlags = 280

TopColumn = 0

End

End

End

Begin SQLPane =

End

Begin DataPane =

Begin ParameterDefaults = ""

End

End

Begin CriteriaPane =

Begin ColumnWidths = 11

Column = 1440

Alias = 900

Table = 1170

Output = 720

Append = 1400

NewValue = 1170

SortType = 1350

SortOrder = 1410

GroupBy = 1350

Filter = 1350

Or = 1350

Or = 1350

Or = 1350

End

Adam Smith [n3276931]
End
End
' , @level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Training_Passed'
GO
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'dbo', @level1type=N'VIEW',@level1name=N'Training_Passed'
GO
USE [master]
GO
ALTER DATABASE [Guappo Hair Design] SET READ_WRITE
GO

7.3.2 Assessment Database - Full

```
USE [master]
```

```
GO
```

```
***** Object: Database [Assessment] Script Date: 12/05/2017 23:38:30 *****
```

```
CREATE DATABASE [Assessment]
```

```
CONTAINMENT = NONE
```

```
ON PRIMARY
```

```
( NAME = N'Assessment', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL12.NEWSQL\MSSQL\DATA\Assessment.mdf' , SIZE = 7168KB , MAXSIZE = UNLIMITED, FILEGROWTH = 1024KB )
```

```
LOG ON
```

```
( NAME = N'Assessment_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL12.NEWSQL\MSSQL\DATA\Assessment_log.ldf' , SIZE = 2048KB , MAXSIZE = 2048GB , FILEGROWTH = 10%)
```

```
GO
```

```
ALTER DATABASE [Assessment] SET COMPATIBILITY_LEVEL = 120
```

```
GO
```

```
IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
```

```
begin
```

```
EXEC [Assessment].[dbo].[sp_fulltext_database] @action = 'enable'
```

```
end
```

```
GO
```

```
ALTER DATABASE [Assessment] SET ANSI_NULL_DEFAULT OFF
```

```
GO
```

```
ALTER DATABASE [Assessment] SET ANSI_NULLS OFF
```

```
GO
```

```
ALTER DATABASE [Assessment] SET ANSI_PADDING OFF
```

```
GO
```

```
ALTER DATABASE [Assessment] SET ANSI_WARNINGS OFF
```

```
GO
```

```
ALTER DATABASE [Assessment] SET ARITHABORT OFF
```

```
GO
```

```
ALTER DATABASE [Assessment] SET AUTO_CLOSE OFF
```

```
GO
```

Adam Smith

[n3276931]

ALTER DATABASE [Assessment] SET AUTO_SHRINK OFF

GO

ALTER DATABASE [Assessment] SET AUTO_UPDATE_STATISTICS ON

GO

ALTER DATABASE [Assessment] SET CURSOR_CLOSE_ON_COMMIT OFF

GO

ALTER DATABASE [Assessment] SET CURSOR_DEFAULT GLOBAL

GO

ALTER DATABASE [Assessment] SET CONCAT_NULL_YIELDS_NULL OFF

GO

ALTER DATABASE [Assessment] SET NUMERIC_ROUNDABORT OFF

GO

ALTER DATABASE [Assessment] SET QUOTED_IDENTIFIER OFF

GO

ALTER DATABASE [Assessment] SET RECURSIVE_TRIGGERS OFF

GO

ALTER DATABASE [Assessment] SET DISABLE_BROKER

GO

ALTER DATABASE [Assessment] SET AUTO_UPDATE_STATISTICS_ASYNC OFF

GO

ALTER DATABASE [Assessment] SET DATE_CORRELATION_OPTIMIZATION OFF

GO

ALTER DATABASE [Assessment] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [Assessment] SET ALLOW_SNAPSHOT_ISOLATION OFF

GO

ALTER DATABASE [Assessment] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [Assessment] SET READ_COMMITTED_SNAPSHOT OFF

GO

ALTER DATABASE [Assessment] SET HONOR_BROKER_PRIORITY OFF

GO

Adam Smith

[n3276931]

ALTER DATABASE [Assessment] SET RECOVERY SIMPLE

GO

ALTER DATABASE [Assessment] SET MULTI_USER

GO

ALTER DATABASE [Assessment] SET PAGE_VERIFY CHECKSUM

GO

ALTER DATABASE [Assessment] SET DB_CHAINING OFF

GO

ALTER DATABASE [Assessment] SET FILESTREAM(NON_TRANSACTED_ACCESS = OFF)

GO

ALTER DATABASE [Assessment] SET TARGET_RECOVERY_TIME = 0 SECONDS

GO

ALTER DATABASE [Assessment] SET DELAYED_DURABILITY = DISABLED

GO

USE [Assessment]

GO

***** Object: Table [dbo].[Salon] Script Date: 12/05/2017 23:38:30 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Salon](

 [SalonID] [int] NOT NULL,

 [SalonName] [nvarchar](50) NOT NULL,

 [S_Address] [nvarchar](50) NOT NULL,

 [PostCode] [nvarchar](20) NOT NULL,

 [PhoneNumber] [nvarchar](20) NOT NULL,

 [EmailAddress] [nvarchar](100) NULL,

 [Website] [nvarchar](100) NOT NULL,

 [NewColumn] [int] NULL

) ON [PRIMARY]

GO

Adam Smith [n3276931]

***** Object: Table [dbo].[SSIS] Script Date: 12/05/2017 23:38:30 *****

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[SSIS](

 [AverageRate] [nvarchar](max) NOT NULL,

 [CurrencyID] [nvarchar](250) NOT NULL,

 [CurrencyDate] [datetime] NOT NULL,

 [EndOfDayRate] [nvarchar](max) NOT NULL

) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]

GO

USE [master]

GO

ALTER DATABASE [Assessment] SET READ_WRITE

GO

7.3.3 DDL Scripts

7.3.3.1 Create Table

```
CREATE TABLE Salon(  
    SalonID int not null,  
    SalonName nvarchar(50)not null,  
    S_Address nvarchar(50)not null,  
    Postcode nvarchar(20)not null,  
    PhoneNumber nvarchar(20)not null,  
    EmailAddress nvarchar(100)not null,  
    Website nvarchar(100)not null,  
)
```

7.3.3.2 Create Index

```
CREATE INDEX AdamsIndex  
ON Salon (SalonName);
```

7.3.3.3 Create Unique Index

```
CREATE UNIQUE INDEX AdamsUniqueIndex  
ON Salon (SalonName);
```

7.3.3.4 Drop Index

```
USE ASSESSMENT;  
DROP INDEX AdamsIndex ON dbo.Salon;
```

7.3.3.5 Drop Table

```
DROP TABLE Salon;
```

7.3.3.6 Alter Table

```
ALTER TABLE Salon  
ADD NewColumn nvarchar(250);
```

7.3.3.7 Modify Column

ALTER TABLE Salon

ALTER COLUMN NewColumn int;

7.3.3.8 Primary Key

CREATE TABLE [dbo].[Salon](

```
[SalonID] [int] NOT NULL,  
[SalonName] [nvarchar](50) NOT NULL,  
[S_Address] [nvarchar](50) NOT NULL,  
[PostCode] [nvarchar](20) NOT NULL,  
[PhoneNumber] [nvarchar](20) NOT NULL,  
[EmailAddress] [nvarchar](100) NOT NULL,  
[Website] [nvarchar](100) NOT NULL,  
[NewColumn] [int] NULL,  
PRIMARY KEY (SalonID)
```

)

7.3.3.9 Foreign Key

ALTER TABLE ForeignKeyTable

ADD FOREIGN KEY (SalonID)

REFERENCES Salon(SalonID);

7.3.3.10 Check

ALTER TABLE Salon

ADD CHECK (Items>=50);

7.3.3.12 Default

ALTER TABLE Salon

ALTER COLUMN Salary SET DEFAULT '20,000';

7.3.3.13 Create View

CREATE VIEW (Training Passed Example) AS

SELECT

Salon.HairAndBeautySalon.Name, Employee.Employee.First_Name, Training.TrainingActivity.ActivityName,

Training.EmployeeTraining.DateCoached, Training.EmployeeTraining.TrainingPassed

FROM

Training.TrainingActivity INNER JOIN

Training.EmployeeTraining ON Training.TrainingActivity.TrainingActivityID =

Training.EmployeeTraining.TrainingActivityID INNER JOIN

Employee.Employee ON Training.EmployeeTraining.EmployeeID = Employee.Employee.EmployeeID INNER JOIN

Salon.HairAndBeautySalon ON Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID AND

Employee.Employee.SalonID = Salon.HairAndBeautySalon.SalonID

WHERE

(Training.EmployeeTraining.TrainingPassed = 1)

7.3.4 DML Scripts

7.3.4.1 Select All

```
Select * FROM Costomer.Reviews;
```

7.3.4.2 Select Columns

```
Select Rating, Comments FROM Customer.Reviews;
```

7.3.4.3 Select Using Where

```
Select * FROM Customer.Customer WHERE Customer.Customer.Title = 'Mr';
```

7.3.4.4 Select Using Where Range

```
Select Rating, Comments FROM Customer.Reviews WHERE Rating >=7;
```

7.3.4.5 OR Operator

```
Select CustomerID, ForeName, Surname, Title
```

```
FROM Customer.Customer
```

```
WHERE Customer.Customer.Forename = 'Megan' OR Customer.Customer.Forename = 'Elaine';
```

7.3.4.6 All

```
Select ALL ContactName, Address FROM Products.ProductsSuppliers;
```

7.3.4.7 Order By

```
SELECT * FROM Equipment.Equipment
```

```
ORDER BY EquipmentName ASC;
```

7.3.4.8 Distinct

```
SELECT DISTINCT Title FROM Customer.Customer;
```

7.3.4.9 Insert Into

```
INSERT INTO Equipment.EquipmentType (EquipmentTypeID, EquipmentTypeName)
```

```
VALUES ('6', 'NewTreatmentName');
```

7.3.4.10 Update

```
UPDATE Customer.Customer
```

```
SET Title = 'Mr', Address = 'New Address'
```

```
WHERE CustomerID = 1;
```

7.3.4.11 Delete

```
DELETE From Salon WHERE SalonID = 1;
```

7.3.4.12 Top

```
SELECT TOP 2 * FROM Employee.Employee;
```

7.3.4.13 Top Percent

```
SELECT TOP 40 PERCENT * FROM Employee.Employee;
```

7.3.4.14 Top WHERE

```
SELECT TOP 4 * FROM Employee.Employee WHERE SalonID = 1;
```

7.3.4.15 Min/Max

```
SELECT MAX(Booking.Pricing.Price)
```

```
FROM Booking.Pricing;
```

7.3.4.16 Like

```
SELECT * FROM Customer.Customer
```

```
WHERE Postcode
```

```
LIKE '%DH%';
```

7.3.4.17 SelectInto

```
SELECT Title
```

```
INTO NewTable
```

```
FROM Customer.Customer;
```

7.3.5 Script Downloads

In case of any formatting issues with the above Scripts I will provide links to download all scripts.

7.3.5.1 Database Scripts

You will find both the Guapo Hair Design and Assessment databases within this link:

https://scm-intranet.tees.ac.uk/users/n3276931/Advance_DB/Links/DatabaseScripts/

7.3.5.2 DDL Scripts

https://scm-intranet.tees.ac.uk/users/n3276931/Advance_DB/Links/DDLScripts/

7.3.5.3 DML Scripts

https://scm-intranet.tees.ac.uk/users/n3276931/Advance_DB/Links/DMLScripts/

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