**Tutorial Task – Session 1**

The brief is to create a scenario for a database that contains a collection of material on a specific topic. The choice of scenario is yours, but it must NOT be any of the scenarios used in tutorials, examples, exercises or assessments in this module.

Use this template and the example developed in the lecture to create your own scenario.

Use the session 1 tutorial to start developing your scenario. In session 2 tutorials you will have an opportunity to get feedback on it from the teaching assistants to make sure you are on the right track.

You can use the scenario as the starting point for the first coursework so do not copy the work of others as this is academic misconduct and will be penalised.

**Scenario Title:**

**Scenario** (100 words maximum)

The Barn Café has people that want to book tables. Each person booking has a unique booking ID, customer ID, name, how many people are coming, table booked, time and date of the booking. All tables have a unique Table ID and the number of people that can be seated on them recorded as the seats. Everyone booking must fill a customer form with their name and telephone number. The company needs to track how many people ask for a certain type of menu. They have a vegan, vegetarian, main, drinks, and a Sunday menu.

**Example entities and attributes** (Minimum 4 example entities, each with at least 2 example attributes and values. At least one entity must be an event/action entity). Identify keys where appropriate.

Entity – Booking;

Attributes/Values – Unique Booking ID/B1(alphanumeric), Time/12.30pm(time) ;

Entity – Tables;

Attributes/Values – Unique Table ID/T1(alphanumeric), Seats/2(int), Current Status/reserved(Boolean/string);

Entity – Customer;

Attributes/Values – Unique Customer ID/C1(alphanumeric), Name/Bob(alphabetical);

Entity – Menu;

Attributes/Values – menu Type/Vegan(alphabetical), popularity/20(int);

Entity – Staff;

Entity – Restaurant;

Entity – Location;

Attributes/Values – Town/Colchester, Restaurant

Entity – Pay;

Entity – Responsibilities;

**Example queries** (Minimum 5 – list, who, which, how many, most, fewest etc. - check that you have listed the attributes needed to answer your queries)

List all booked tables and their tables on Friday the 12th of November?

Who is booked for table 5 today at 12.30 pm?

How many people can be seated on table 12?

Is table 10 reserved today at 4pm?

Which menu has most popularity?

Who is working on Sunday 24th October?

Fishing scenario;

Entities

Entity – Caught;

Attributes: Who – member, What – Common Name, What – Scientific name, Weight, When – date, when - time, Where - location, How – bait, how - rod;

Entity – Member;

Attributes: MemberNumber, Name, Age, Address, Nationality, Contact info, join date;

Sub-Entity – Paid;

Attributes: Monthly fee, billing information, Perks;

Entity – Member’s\_History;

Attributes: MemberNumber, Name, Date, Location, Fish\_Caught;

Entity – Fish;

Attributes: ScientificName, General Info – Growth max size, max weight, habitat, popularity;

Entity – Location;

Attributes: Name, PostCode, Type – RIVER/LAKE, Fish that live there;