CI204 - Database

Ruthies Food Truck

University of Brighton

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# Design:

## Entity Relationship:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **From Entity:** | **To Entity:** | **Relationship Name:** | **Reason for relationship:** | **Multiplicity:** |
| Booking | Event Details | One booking may have many details |  | 1:M |
| Booking | Truck Booking | One booking may have many trucks |  | 1:M |
| Booking | Recipe Booking | One booking may have many recipe bookings |  | 1:M |
| Event Details | Staff | One event may have many staff |  | 1:M |
| Event Details | Temp Staff | One event may have many temp staff |  | 1:M |
| Truck Booking | Truck | One truck booking may have many trucks |  | 1:M |
| Recipe Booking | Recipe | One recipe booking may have many recipes |  | 1:M |

## 

## Entity Documentation Form:

|  |  |  |
| --- | --- | --- |
| **Entity Name:** | **Description:** | **Approximate number:** |
| Event Details | Details about the event; such as, event contact name, event name, organiser, address, etc… | 14 |
| Booking | Information about the booking; such as, the name of the booking, duration of the booking, if it’s a repeat event, etc... | 7 |
| Recipe Booking | Holds compounds keys from booking and recipe to resolve a many to many issue. | 3 |
| Recipe | Details of the recipes for the event. | 4 |
| Staff | Information on the staff that will be working at the event and if they hold any licenses. | 9 |
| Temp Staff | Information on the temporary staff hired for the event and if they hold any licenses. | 9 |
| Truck | Details on the truck(s) being used at the event. | 4 |
| Truck Booking | Holds compound keys to resolve a many to many issue. | 2 |

## Attribute Documentation Form:

|  |  |  |
| --- | --- | --- |
| **Attribute Name:** | **Description:** | **Approximate number:** |
| event\_ID | A unique ID (primary key) used to represent the event to ensure it is unique and constraints can be set.  Assuming they have a booking every day and the business lasts 5 years (perhaps when the database needs to be redesigned or updated) that means it would need to store 1825 unique ID’s (i.e. 365\*5). | 1,825 |
| event\_contact\_name | The name of the person under which the event will be booked.  Assuming someone won’t have more than 5 names, and 1825 events (using 1 a day for 5 years) in the life of the database; i.e. 1825\*5. | 9,125 |
| event\_name | The name of the event, one that describes the event clearly, such as, Lewes Farmers Market  Assuming the name of the vent won’t have more than 5 words in it, 1 event per day for 5 years, 365\*5\*5 | 9,125 |
| start\_time | The time the event starts.  As the database is using the official time data type HH:MM:SS | 6 |
| event\_organiser | The name of the head staff member who is in charge of organising the event.  Assuming the staff member doesn’t have more than 5 names and its 1 member per event, 1 event per day for 5 years, 5\*365\*5. | 9,125 |
| event\_address\_1 | The first line of the address for the event.  Assuming the first line won’t have more than 20 characters, 1 address per event, for 5 years = 20\*365\*5 | 36,500 |
| event\_address\_2 | The second line of the address for the event.  Assuming the first line won’t have more than 20 characters, 1 address per event, for 5 years = 20\*365\*5 | 36,500 |
| event\_post\_code | The post code of the address for the event.  Assuming it’s a UK postcode that can be up to 7 characters, one post code per event, per day for 5 years = 7\*365\*5 | 12,775 |
| event\_type | Outside catering (OC) the event organisers pay for a certain amount of food for a planned number of guests, e.g. for a wedding.  Direct Sales (DS) Ruthie’s pays a fee to attend an event and income is dependent on the number of sales. Some of these events are regular e.g. the monthly Farmers’ Market in Lewes. In these cases, Ruthie liaises with the same organiser repeatedly.  Assuming, 2 characters for the type per event, for 5 years = 2\*365\*5 | 3,650 |

## Attribute Documentation Form (continued):

|  |  |  |
| --- | --- | --- |
| **Attribute Name:** | **Description:** | **Approximate number:** |
| number\_of\_covers | How many covers the event is going to need.  Assuming an event won’t need more than 500 cover per event, with an event every day for 5 years = 500\*365\*5 | 912,500 |
| number\_of\_staff\_requried | How many staff will be working at the event.  Assuming that a maximum of 10 staff will be working per event, 1 event every day for 5 years = 10\*365\*5 | 18,250 |
| event\_contact\_tel\_numb | The number the person in charge of the event can be reached on.  Assuming it is a U.K. number without an extension, a phone number would be 11 digits long and only one is stored per event. | 11 |
| event\_contact\_email | The email address that the event organiser can be reached on.  Assuming that the email will be no longer than 50 characters, and only one email will be put down | 40 |
| event\_incidents | A form that will be filled out if an incident occurs during the event, for example, someone falls or cuts themselves.  Assuming that the write up will be restricted to 250 words to describe the events that unfolded and what was done and no more than 5 accidents will occur = 250\*5. | 1,250 |
| booking\_ID | A unique ID (primary key) used to represent the booking to ensure it is unique and constraints can be set.  Assuming they have a booking every day and the business lasts 5 years (perhaps when the database needs to be redesigned or updated) that means it would need to store 1825 unique ID’s (i.e. 365\*5). | 1825 |
| booking\_name | A unique name given to easily and clearly identify the booking.  Assuming that the booking name is no more than 30 characters long, 1 event everyday for 5 years = 30\*365\*5 | 54,750 |
| booking\_date | The date of the event, in the format of “YYYY-MM-DD”.  Assuming 1 booking every day for 5 years = 365\*5 | 1,825 |
| booking\_duration | The length of the event, in days / hours.  Assuming, 1 booking every day for 5 years = 365\*5 | 1,825 |
| repeat\_event | If the event is happening again, for example, a yearly event.  Assuming an event can occur 4 times a year max for 5 years = (365/4)\*5 | 457 (rounded up) |
| repeat\_details | The details of the event that is repeating (should be on record). |  |

## Attribute Documentation Form (continued 2):

|  |  |  |
| --- | --- | --- |
| **Attribute Name:** | **Description:** | **Approximate number:** |
| staff\_ID | A unique ID (primary key) used to represent the staff member working the event to ensure it is unique and constraints can be set.  Assuming a max of 10 staff can work an event and they have a booking every day and the business lasts 5 years = 10\*365\*5 | 18,250 |
| staff\_email | The email address that the staff members can be reached on.  Assuming that the email will be no longer than 50 characters, and only one email will be put down | 40 |
| staff\_hours | The number of hours a staff member has worked during an event.  Assuming that a staff member will not work longer than 48 hours per week every week for 5 years = 48\*52\*5 | 12,480 |
| comments | Any comments about the event, such as particular items only for one day on a multi-day event.  Assuming the comments won’t be longer that 250 characters, 1 per day for 5 years = 250\*365\*5 | 456,250 |
| pay | The pay for each staff members for the hours worked during the event.  Assuming the staff member is payed minimum wage per hour (£8.23) for a 48-hour week, every week for 5 years = 8.23\*48\*52\*5 | 102,710 (rounded down) |
| alcohol\_vending\_license\_holder | If the staff member holds an alcohol vending license, as the staff member is responsible for it.  Assuming only 1 license needs to be held or can be. | 1 |
| food\_hygiene\_certificate | If the staff member holds a food hygiene license, as the staff member is responsible for it.  Assuming only 1 license needs to be held or can be. | 1 |
| food\_hygiene\_certificate\_level | If the staff member holds a food hygiene license, as the staff member is responsible for it.  Assuming only 1 license needs to be held or can be. | 1 |
| temp\_staff\_ID | A unique ID (primary key) used to represent the temporary staff member to ensure it is unique and constraints can be set.  Assuming up to 2 temp staff members are hired per event per day for 5 years = 2\*365\*5 | 3,650 |
| temp\_staff\_start\_date | The date the temporary staffs contract beings.  Assuming the temp staff is hired for 1 day every other week for 5 years = 1\*26\*5 | 130 |
| temp-staff\_end\_date | The date the temporary staffs contract ends.  Assuming the temp staff is hired for 1 day every other week for 5 years = 1\*26\*5 | 130 |

## Attribute Documentation Form (continued 3):

|  |  |  |
| --- | --- | --- |
| **Attribute Name:** | **Description:** | **Approximate number:** |
| temp\_staff\_email | The email address that the temporary staff can be reached on.  Assuming that the email will be no longer than 50 characters, and only one email will be put down | 40 |
| truck\_ID | A unique ID (primary key) used to represent the truck booked for the event to ensure it is unique and constraints can be set.  Assuming they have 20 trucks, each truck will have a unique ID, and not buy more than 20 trucks at any one time over the 5 years, also only needing to replace the trucks every 2 years = 20\*2 | 40 |
| truck\_VIN | A unique number given to the truck by law.  Assuming that the trucks are all legal the VIN numbers will all be 17 characters long. | 17 |
| truck\_incidents | A write up form if any incidents occur to the truck, for example, a tire burst.  Assuming that the write up won’t be more than 500 characters and there won’t be more than 1 write up every 3 month0 over 5 years = 500\*4\*5 | 10,000 |
| recipe\_ID | A unique ID (primary key) used to represent the recipe to ensure it is unique and constraints can be set.  Assuming the company will only have up to 50 recipes per year for 5 years = 50\*5 | 250 |
| recipe\_name | The name given to the recipe to clearly identify it and what is in it.  Assuming the name won’t be longer than 30 characters, 50 recipes for 5 years = 30\*50\*5 | 7.500 |
| recipe\_ingredients | The ingredients used in the recipe.  Assuming there won’t be more than 500 characters used to write up all recipes, 50 recipes per year for 5 years = 500\*50\*5 | 125,00 |
| allergens | A description of any ingredients used that could cause allergies in a recipe.  Assuming 50 recipes per year for 5 years with up to 5 ingredients that could cause allergies per recipe = 50\*5\*5 | 12,500 |

# Normalisation:

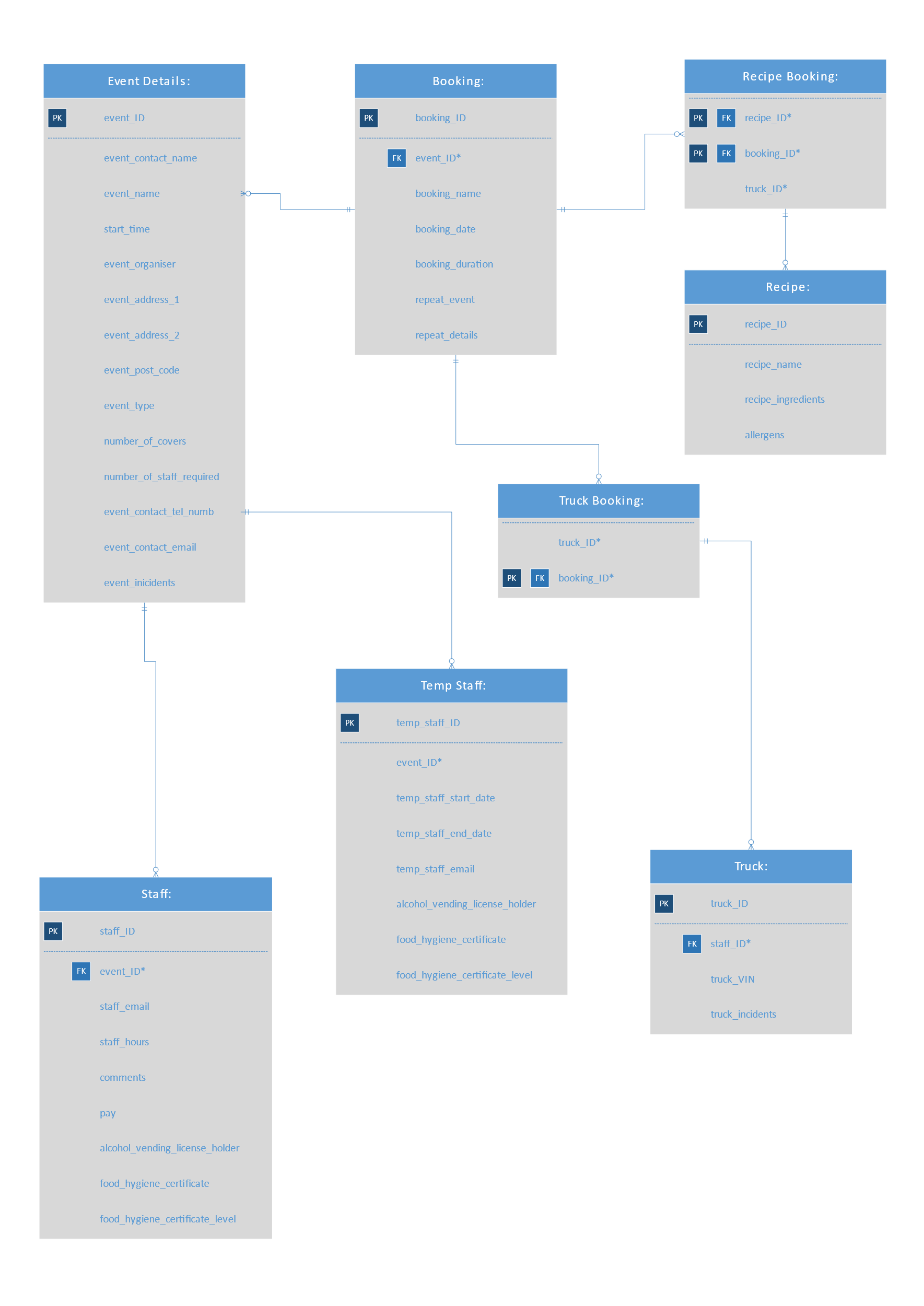
## Ruthies Food Truck Normalisation (appendix A / B):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UNF:** | **1NF:** | **2NF:** | **3NF:** | **Tables:** |
| booking\_ID  event\_ID  event\_name  booking\_date  booking\_duration  start\_time  event\_address\_1  event\_address\_2  event\_post\_code  event\_type  number\_of\_covers  event\_contact\_name  event\_contact\_tel\_numb  event\_contact\_email  repeat\_event  repeat\_details  truck\_ID  truck\_VIN  number\_of\_trucks  recipe\_ID  recipe\_name  staff\_ID  staff\_email  staff\_hours  number\_of\_staff\_required  comments  booking\_ID  booking\_date  event\_name  booking\_duration  start\_time  booking\_name  event\_address\_1  event\_address\_2  event\_post\_code  event\_type  event\_organiser  event\_contact\_tel  event\_contact\_email  repeat\_event  repeat\_details  truck\_ID  truck\_VIN  recipe\_ID  recipe\_Name  number\_of\_trucks  staff\_ID  staff\_email  staff\_hours  number\_of\_staff\_required  comments  food\_hygiene\_certificate  food\_hygiene\_certificate\_level  recipe\_ingredients  allergens  truck\_incidents  event\_incidents  pay  alcohol\_vending\_license\_holder  temp\_staff\_ID  temp\_staff\_contract\_duration  temp\_staff\_email | booking\_ID  event\_ID  event\_name  booking\_name  booking\_date  booking\_duration  start\_time  event\_address\_1  event\_address\_2  event\_post\_code  event\_type  number\_of\_covers  event\_contact\_name  event\_contact\_tel\_numb  event\_contact\_email  repeat\_event  repeat\_details  event\_organiser  event\_incidents  staff\_ID  staff\_email  staff\_hours  number\_of\_staff\_required  comments  pay  truck\_ID  truck\_VIN  number\_of\_trucks  truck\_incidents  recipe\_ID  recipe\_name  recipe\_ingredients  allergens  food\_hygiene\_certificate  food\_hygiene\_certificate\_level  alcohol\_vending\_license\_holder  temp\_staff\_ID  temp\_staff\_contract\_duration  temp\_staff\_email  temp\_staff\_contract\_duration  temp\_staff\_email | booking\_ID  event\_ID\*  booking\_name  booking\_date  booking\_duration  repeat\_event  repeat\_details  event\_ID  event\_contact\_name  event\_name  start\_time  event\_organiser  event\_address\_1  event\_address\_2  event\_post\_code  event\_type  number\_of\_covers  event\_contact\_tel\_numb  event\_contact\_email  event\_incidents  staff\_ID  event\_ID\*  staff\_email  staff\_hours  number\_of\_staff\_required  comments  pay  truck\_ID  staff\_ID\*  truck\_VIN  number\_of\_trucks  truck\_incidents  recipe\_ID  recipe\_name  recipe\_ingredients  allergens  staff\_ID\*  food\_hygiene\_certificate  food\_hygiene\_certificate\_level  alcohol\_vending\_license\_holder  temp\_staff\_ID  event\_ID\*  temp\_staff\_start\_date  temp\_staff\_end\_date  temp\_staff\_email | booking\_ID  event\_ID\*  booking\_name  booking\_date  booking\_duration  repeat\_event  repeat\_details  event\_ID  event\_contact\_name  event\_name  start\_time  event\_organiser  event\_address\_1  event\_address\_2  event\_post\_code  event\_type  number\_of\_covers  number\_of\_staff\_required  event\_contact\_tel\_numb  event\_contact\_email  event\_incidents  staff\_ID  event\_ID\*  temp\_staff\_ID\*  staff\_email  staff\_hours  comments  pay  alcohol\_vending\_license\_holder  food\_hygiene\_certificate  food\_hygiene\_certificate\_level  truck\_ID  staff\_ID\*  truck\_VIN  truck\_incidents  truck\_ID\*  booking\_ID\*  recipe\_ID  recipe\_name  recipe\_ingredients  allergens  recipe\_ID\*  booking\_ID\*  truck\_ID\*  temp\_staff\_ID  event\_ID\*  temp\_staff\_start\_date  temp\_staff\_end\_date  temp\_staff\_email  alcohol\_vending\_license\_holder  food\_hygiene\_certificate  food\_hygiene\_certificate\_level | **Booking:**  booking\_ID  event\_ID\*  booking\_name  booking\_date  booking\_duration  repeat\_event  repeat\_details  **Event\_Details:**  event\_ID  event\_contact\_name  event\_name  start\_time  event\_organiser  event\_address\_1  event\_address\_2  event\_post\_code  event\_type  number\_of\_covers  number\_of\_staff\_required  event\_contact\_tel\_numb  event\_contact\_email  event\_incidents  **Staff:**  staff\_ID  event\_ID\*  temp\_staff\_ID\*  staff\_email  staff\_hours  comments  pay  alcohol\_vending\_license\_holder  food\_hygiene\_certificate  food\_hygiene\_certificate\_level  **Truck:**  truck\_ID  staff\_ID\*  truck\_VIN  truck\_incidents  **Truck Bookings:**  truck\_ID\*  booking\_ID\*  **Recipe:**  recipe\_ID  recipe\_name  recipe\_ingredients  allergens  **Recipe Booking:**  recipe\_ID\*  booking\_ID\*  truck\_ID\*  **Temp Staff:**  temp\_staff\_ID  event\_ID\*  temp\_staff\_start\_date  temp\_staff\_end\_date  temp\_staff\_email  alcohol\_vending\_license\_holder  food\_hygiene\_certificate  food\_hygiene\_certificate\_level |

# Table Definition / Data Dictionary:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table: Booking | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Default:** | **Key:** |
| booking\_ID | int | 4 |  | 0001 |  | Y |  | Primary |
| event\_ID\* | int | 4 |  | 1234 |  | Y |  | Foreign |
| booking\_name | varchar | 50 |  | Fuss – Budget Wedding |  | N |  |  |
| booking\_date | date | 8 | YYYY-MM-DD | 06/02/2019 | Must follow date format | Y |  |  |
| booking\_duration | int | 1 |  | 1 |  | Y |  |  |
| repeat\_event | bit | 1 |  | 0 |  | N |  |  |
| repeat\_details | varchar | 100 |  | Name & Address |  | N |  |  |
| Table: Event Details | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Default:** | **Key:** |
| event\_ID | int | 4 |  | 6789 |  | Y |  | Primary |
| event\_contact\_name | varchar | 50 |  | Ms P Budget |  | Y |  |  |
| event\_name | varchar | 50 |  | Lewes Farmers Market |  | N |  |  |
| start\_time | time | 6 | HH:MI:SS | 10:00:00 |  | Y |  |  |
| event\_organiser | varchar | 50 |  | John Smith |  | Y |  |  |
| event\_address\_1 | varchar | 100 |  | Village Way | Must be road | Y |  |  |
| event\_address\_2 | varchar | 100 |  | Brighton | Must be town / city | Y |  |  |
| event\_post\_code | varchar | 8 | LLN(N)NLL | BN1 9PH | Must follow post code format | Y |  |  |
| event\_type | varchar | 2 |  | OC |  | Y |  |  |
| number\_of\_covers | int | 4 |  | 200 |  | Y |  |  |
| number\_of\_staff\_required | int | 2 |  | 4 |  | Y |  |  |
| event\_contact\_tel\_numb | char | 10 |  | 07762112597 |  | Y |  |  |
| event\_incidents | varchar | 500 |  | Member of staff cut themselves |  | N |  |  |
| event\_contact\_email | varchar | 40 |  | jfarmer@lfm.com |  | N |  |  |
| Table: Staff | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Default:** | **Key:** |
| staff\_ID | int | 4 |  | 023 |  | Y |  | Primary |
| event\_ID\* | int | 4 |  | 6789 |  | Y |  | Foreign |
| staff\_email | varchar | 40 |  | [teddy@gall.co.uk](mailto:teddy@gall.co.uk) |  | Y |  |  |
| staff\_hours | int | 2 |  | 8 |  | Y |  |  |
| comments | varchar | 100 |  | VB1 for next morning only |  | N |  |  |
| pay | int | 4 |  | 500 |  | Y |  |  |
| Table: Truck | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Default:** | **Key:** |
| truck\_ID | int | 4 |  | YUM1 |  | Y |  | Primary |
| staff\_ID\* | int | 4 |  | 458 |  | Y |  | Foreign |
| truck\_VIN | varchar | 17 |  | 1HGBH41JXMN109186 |  | Y |  |  |
| truck\_incidents | varchar | 200 |  | Dent on back right side whilst parking |  | N |  |  |
| Table: Truck Booking | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Default:** | **Key:** |
| truck\_ID\* | int | 4 |  | YUM2 |  | Y |  | Foreign |
| booking\_ID\* | int | 4 |  | 2356 |  | Y |  | Foreign |
| Table: Recipe | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Default:** | **Key:** |
| recipe\_ID | int | 4 |  | HF1 |  | Y |  | Primary |
| recipe\_name | varchar | 4 |  | Hummus falafel wrap |  | Y |  |  |
| recipe\_ingredients | varchar | 50 |  | Hummus wrap |  | Y |  |  |
| allergens | varchar |  |  | Allergic to nuts |  | Y |  |  |
| Table: Recipe Booking | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Index:** | **Default:** |
| recipe\_ID\* | int | 4 |  | VT1 |  | Y |  | Compound |
| booking\_ID\* | int | 4 |  | 0256 |  | Y |  | Compound |
| truck\_ID\* | int | 4 |  | YUM1 |  | Y |  | Foreign |
| Table: License | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Index:** | **Default:** |
| staff\_ID\* | int | 4 |  | 0458 |  | Y |  | Foreign |
| alcohol\_vending\_license\_holder | varchar | 50 |  | Mr J Farmer |  | Y |  |  |
| food\_hygiene\_certificate | varchar | 25 |  | Food hygiene rating 5 |  | Y |  |  |
| food\_hygiene\_certificate\_level | int | 1 |  | 3 |  | Y |  |  |
| Table: Temp Staff | | | | | | | | |
| **Field Name:** | **Datatype:** | **Size:** | **Format:** | **Example:** | **Validation Rule:** | **Required:** | **Index:** | **Default:** |
| temp\_staff\_ID | int | **4** |  | **0036** |  | Y |  | Primary |
| temp\_staff\_start\_date | date | 8 | YYYY-MM-DD | 22/08/2019 | Must follow date format | Y |  |  |
| temp\_staff\_end\_date | date | 8 | YYYY-MM-DD | 24/08/2019 | Must follow date format | Y |  |  |
| temp\_staff\_email | varchar | 40 |  | soz55@btinterweb.com |  | Y |  |  |

# Entity Relationship Diagram:



# Evaluation of Design:

Firstly, whilst developing my database design I first went through the brief carefully highlighting and picking out any deliverables, then, went through it another time highlighting any other information I thought might be of use or importance. Furthermore, now that I had all the attributes / deliverables I started working on my normalisation, I found most of the data from [appendix B.](#appendix_B) Once I had that I did another scan of the brief and found the requirements of the database and realised I needed to implement them into my normalisation, in hindsight, I realise I should have checked if I had everything before finishing the normalisation, causing me to restart ([appendix A](#appendix_A)). It took me about 7 tries to get normalisation correct as it was a constant battle between how it all fits together and the multiple ways, I found I could do it.

Secondly, the next biggest hurdle was the ERD and how each table related to each other, during which I realised a couple of my tables were wrong, so they needed fixing in the normalisation and tables. Most errors originating from many to many relationship and me questioning all my decision. The data dictionary and design tables were by far the easiest and most straight forward part as all the information was there it was just a matter of inputting it.

# Appendix A: requirements

MUST:

1. Record /edit/cancel bookings for multiple trucks at outdoor events

2. For all staff, ensure that a level 2 food hygiene certificate is in place

3. For each item sold, produce a list of ingredients

4. Identify all truck bookings for any given date

5. Identify all bookings for a given truck

SHOULD:

6. Record any accidents / reportable incidents that take place, including the event at which they happened

7. For all staff acting as supervisors, ensure that a level 3 food hygiene certificate is in place

8. For all events involving alcohol, identify a team member as the license holder

9. Identify any temporary staff who are not currently working this weekend (i.e. may be available for a lastminute booking)

## COULD

10. Record members of staff who worked at specific events, including who was acting as the supervisor. This

should include the number of hours worked by each staff member, and their rate of pay

11. Produce a list of ingredients for each item sold, with known allergens at the top of the list - this should

include sub-ingredients, like the tahini ingredients on the hummus recipe described previously

## WOULD BE NICE IF:

12. Identify weekends in the next month with available trucks (to offer last minute deals)

13. For hourly paid staff, calculate wages due for the hours worked in the past month

[wages = (hours worked \* hourly rate) – tax] - you may assume that 20% tax is paid directly to HMRC and

should subtract this amount from the Gross Wages and record it, and be able to calculate Net Wages to be

paid

## The following functionality is also required in the database system:

A. A stored procedure is required that will create a new booking using parameters giving the details of the

date and length of event in days, a named contact and the total number of workers required

B. A stored procedure is required to produce a list of bookings and staff members (identifying the supervisor)

for the forthcoming month

C. A trigger is required that is actioned when a booking is cancelled. This will produce all staff who are booked

to be working at this event, with their contact details so that that they can be alerted to change

D. Create a simple application to provide an interface capable of executing the above functionality (select

queries and procedures)

\*For more information on the 14 allergens that must be listed, see here:

<http://allergytraining.food.gov.uk/english/rules-and-legislation/>

\*\* For more information on RIDDOR, see here: <https://www.thecaterer.com/articles/45/accident-reporting-in-thehospitality-industry>

# Appendix B: ruthie’s food truck

