ENTITY/DEFINITION MATRIX

Team Number: Team 2

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| --- | --- | --- | --- | --- | --- | --- |
| **ENTITY NAME** | **BUSINESS DEFINITION** | **SHORT**  **NAME** | **QUANTITY** | | | **Defined**  **by** |
| **Initial** | **Minimum-**  **Maximum** | **Growth**  **Rate** |
| Pet | A tame animal that belongs to a customer as a companion. | P | **0** | **many** |  |  |
| Cat | A specific animal. | C | **0** | **1** |  |  |
| Dog | A specific animal. | D | **0** | **1** |  |  |
| Vet | The pet’s vet and any necessary contact information | V | **0** | **many** |  |  |
| Vaccinations | Record of a dog’s vaccinations | V2 | **many** | **many** |  |  |
| Run | A location to store dogs, with sizes small, medium and large. | R | **40** | **40** |  |  |
| Suite | A location to store cats while boarding. | S | **many** | **many** |  |  |
| Kennel Log | The diagram of all dog runs with all information about the run | KL | 1 | 1 |  |  |
| Kennel card | A card with all the information about the pet. | KC | 1 | 1 |  |  |
| Customer | A person who requires kennel service from the business. | C2 | ? | 0 - Many |  |  |
| Invoice | The document containing all pricing information | I | ? | many |  |  |
| Services | A process for the maintenance or improvement for a pet. | S2 | 5 | 5 |  |  |
| Baths | A process of cleaning the pet. | B | ? | many |  |  |
| Playtime | An fun exercise for the pet. | P2 | ? | many |  |  |
| Walking | An exercise for the pet. | W | ? | many |  |  |
| Grooming | A process of cleaning and maintaining a pet. | G | ? | many |  |  |
| Medication | Drugs provided by the client to give to the pet during the stay. | M | ? | many |  |  |
| Reservations | An agreement for an accommodation for a pet for a set period of time. | R2 | ? | many |  |  |

Relationship Definitions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Entity** | **Second Entity** | **Relationship Name** | **Cardinality** | | **Relationship Definition** |
| **Min[[1]](#footnote-1)** | **Max** |
| Customer | *Pet* | *Owns* | *1* | *Many* | *A Customer owns a pet* |
| Customer | Invoice | Has a | 1 | Many | A Customer has an Invoice |
| Customer | Reservation | Makes a | 1 | Many | A Customer makes a Reservation |
| Customer | Customer | Is an emergency contact for | 1 | 1 | A Customer is an emergency contact for a Customer |
| Reservation | Pet | Is made for | 1 | Many | A Reservation is made for a Pet |
| Reservation | Customer | Is made for | 1 | 1 | A Reservation is made by a Customer |
| Reservation | Kennel Log | Is stored on | 1 | 1 | A Reservation is stored on the Kennel Log. |
| Reservation | Service | Has a | 1 | Many | A Reservation has zero to many Services |
| Run | Dog | Is assigned to | 0 | Many | A Run is assigned to a Dog |
| Suite | Cat | Is assigned to | 0 | Many | A Suite is assigned to a Cat |
| Pet | Customer | Is owned by | 1 | 1 | A Pet is owned by a Customer |
| Pet | Kennel Log | Is indicated in | 1 | 1 | A Pet is indicated in the Kennel Log |
| Pet | Kennel Card | Has a | 1 | 1 | A Pet has a Kennel Card |
| Pet | Cat | Can be a | 0 | 1 | A Pet can be a Cat |
| Pet | Dog | Can be a | 0 | 1 | A Pet can be a Dog |
| Pet | Reservation | Is listed in | 1 | 1 | A Pet is listed in a Reservation |
| Pet | Vet | Has a | 0 | 1 | A Pet has a Vet |
| Pet | Vaccination | May have | 0 | Many | A Pet may have zero to many Vaccinations |
| Cat | Pet | Is a | 1 | 1 | A Cat is a Pet |
| Cat | Suite | Is assigned to a | 1 | 1 | A Cat is assigned to a Suite |
| Dog | Pet | Is a | 1 | 1 | A Dog is a Pet |
| Dog | Run | Is assigned to a | 1 | 1 | A Dog is assigned to a Run |
| Kennel Card | Pet | Belongs to a | 1 | 1 | A Kennel Card belongs to a Pet |
| Kennel Log | Pet | Shows all | 1 | Many | A Kennel Log shows all Pets |
| Kennel Log | Reservation | Contains a | 1 | Many | A Kennel Log contains a Reservation |
| Services | Reservation | Is for | 1 | Many | Services is for a Reservation |
| Services | Invoice | Are listed in | 1 | 1 | Services are listed in Invoice |
| Services | Baths | Can be | 0 | Many | Service can be a Bath |
| Services | Playtime | Can be | 0 | Many | Service can be a Playtime |
| Services | Walking | Can be | 0 | Many | Service can be a Walk |
| Services | Grooming | Can be | 0 | Many | Service can be a Grooming |
| Services | Medication | Can be | 0 | Many | Service can be a Medication |
| Invoice | Services | Lists | 1 | Many | Invoice lists Services |
| Invoice | Customer | Is issued to | 1 | 1 | An Invoice is issued to zero to many Customers |
| Vet | Pet | Has a | 1 | Many | A Vet has zero to many Pets |
| Vaccinations | Pet | Can be given to | 1 | Many | A Vaccination can be given to 0 to many Pets |
| Baths | Services | is a | 0 | 1 | A Bath is a Service |
| Playtime | Services | is a | 0 | 1 | A Playtime is a Service |
| Walking | Services | is a | 0 | 1 | A Walk is a Service |
| Grooming | Services | is a | 0 | 1 | A Grooming is a Service |
| Medication | Services | is a | 0 | 1 | Medication is a Service |

1. Optionality [↑](#footnote-ref-1)