**Paw Bytes Table and Attribute Summary**

**Table Customer:** This table stores details of the customers of Paw Bytes.

**Table and Attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Customer |
| **ER origin** | Customer |
| **Primary Key** | CID |
| **Foreign Key** | None |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| CID | SERIAL |  | Required | Stored |
| FirstName | VARCHAR(50) | Not empty | Required | Stored |
| LastName | VARCHAR(50) |  | Optional | Stored |
| Email | VARCHAR(345) |  | Optional | Stored |
| PhoneNumber | VARCHAR(14) |  | Optional | Stored |

**Table Customer\_Address:** This table stores details of all customer addresses.

**Table and Attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Customer\_Address |
| **ER origin** | Customer |
| **Primary Key** | CID |
| **Foreign Key** | CID |
|  | CID references Customer.CID |
| **Uniqueness constraint** |  |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| CID | SERIAL |  | Required | Stored |
| ZipCode | VARCHAR(4) |  | Optional | Stored |
| Street | VARCHAR(50) |  | Optional | Stored |
| City | VARCHAR(50) |  | Optional | Stored |
| State | VARCHAR(50) |  | Optional | Stored |

**Table Product:** This table stores details of all products sold by PawBytes.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Product |
| **ER origin** | Product |
| **Primary Key** | PID |
| **Foreign Key** | None |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| PID | SERIAL |  | Required | Stored |
| ProductName | VARCHAR(50) | Not empty | Required | Stored |
| ProductType | VARCHAR(50) | Not empty | Required | Stored |

**Table Product\_Amount:** This table stores details each product’s price at a given date.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Product\_Amount |
| **ER origin** | Product |
| **Primary Key** | PID, establishedDate |
| **Foreign Key** | PID |
|  | PID references Product.PID |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| PID | SERIAL |  | Required | Stored |
| EstablishedDate | DATE |  | Required | Stored |
| Amount | NUMERIC(,2) | > 0 | Required | Stored |

**Table Employee:** This table contains information of all employees at Paw Bytes.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Employee |
| **ER origin** | Employee |
| **Primary Key** | EID |
| **Foreign Key** |  |
|  |  |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| EID | SERIAL |  | Required | Stored |
| FirstName | VARCHAR(50) | Not empty | Required | Stored |
| LastName | VARCHAR(50) | Not empty | Required | Stored |
| Email | VARCHAR(345) | Not empty | Required | Stored |
| PhoneNumber | VARCHAR(14) | Not empty | Required | Stored |

**Table Employee\_Address:** This table stores the address of every employee of Paw Bytes.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Employee\_Address |
| **ER origin** | EID |
| **Primary Key** | EID |
| **Foreign Key** | EID |
|  | EID references Employee.EID |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| EID | SERIAL |  | Required | Stored |
| ZipCode | VARCHAR(4) | Not empty | Required | Stored |
| Street | VARCHAR(50) | Not empty | Required | Stored |
| City | VARCHAR(50) | Not empty | Required | Stored |
| State | VARCHAR(50) | Not empty | Required | Stored |

**Table PawPal:** This table stores information of all PawPals.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | PawPal |
| **ER origin** | PawPal |
| **Primary Key** | pawID |
| **Foreign Key** | None |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| PawID | SERIAL |  | Required | Stored |
| PawName | VARCHAR(50) |  | Required | Stored |
| Species | VARCHAR(3) | “dog” or “cat” | Required | Stored |
| TagName | VARCHAR(16) | Not empty | Required | Stored |
| LastDateGroomed | DATE |  | Optional | Derived |
| TotalSessionsAttended | INTEGER |  | Optional | Derived |

**Table Order:** This table stores information of all orders taken.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Order |
| **ER origin** | Order |
| **Primary Key** | orderID |
| **Foreign Key** | None |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| orderID | SERIAL |  | Required | Stored |
| orderDate | DATE |  | Required | Stored |
| orderTotal | NUMERIC(,2) | >=0 | Required | Derived |

**Table Order\_Invoice:** This table stores information of all invoices.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Order\_Invoice |
| **ER origin** | Order |
| **Primary Key** | orderID, PID, CID |
| **Foreign Key** | PID, CID |
|  | PID references Product.PID  CID references Customer.CID |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| orderID | SERIAL |  | Required | Stored |
| PID | SERIAL |  | Required | Stored |
| CID | SERIAL |  | Required | Stored |
| quantity | INTEGER | > 0 | Required | Stored |
| lineTotal | NUMERIC(,2) | > 0 | Required | Derived |

**Table Training\_Session:** This table stores information of all invoices.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Training\_Session |
| **ER origin** | TrainingSession |
| **Primary Key** | SessionID |
| **Foreign Key** |  |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| SessionID | SERIAL |  | Required | Stored |
| SessionDate | DATE |  | Required | Stored |

**Table Attend\_Session:** This table stores information of all sessions attended

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | AttendSession |
| **ER origin** | Attends |
| **Primary Key** | pawID, sessionID |
| **Foreign Key** | pawID references PawPal.pawID  sessionID references TrainingSession.sessionID |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| SessionID | SERIAL |  | Required | Stored |
| pawID | SERIAL |  | Required | Stored |

**Table Conduct\_Session:** This table stores information of all sessions attended

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | ConductSession |
| **ER origin** | Conducts |
| **Primary Key** | EID, sessionID |
| **Foreign Key** | EID references Employee.EID  sessionID references TrainingSession.sessionID |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| SessionID | SERIAL |  | Required | Stored |
| EID | SERIAL |  | Required | Stored |

**Table Tweet\_Treat:** This table stores all treats gathered from Twitter tweets.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Treat\_Treat |
| **ER origin** | Tweet Treat |
| **Primary Key** | tweetID |
| **Foreign Key** | None |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| tweetID | BIGINT |  | Required | Stored |
| twitterName | CHAR(20) |  | Required | Stored |
| tweet\_text | CHAR(300) |  | Required | Stored |
| dateSaved | TIMESTAMP |  | Required | Stored |

**Table Tweet\_Treat\_Ownership:** This table stores all treats gathered from Twitter tweets.

**Table and attribute Summaries**

|  |  |
| --- | --- |
| **Table** | Treat\_Treat\_Ownership |
| **ER origin** | Tweet Treat\_Ownership |
| **Primary Key** | tweetID, pawID |
| **Foreign Key** | None |
| **Uniqueness constraint** | None |

**Attribute summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Range** | **Required/**  **Optional** | **Derived/**  **Stored** |
| tweetID | SERIAL |  | Required | Stored |
| pawID | SERIAL |  | Required | Stored |