# Schema documentation

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## Table: gummy

### Description:

This data table contains information about all the gummies available at gummybox.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| id | INT | PRIMARY, Not null |  |
| name | VARCHAR(45) |  | Name of the gummy |
| description | VARCHAR(500) |  | Description of the gummy |
| consistency | VARCHAR(45) |  | Consistency of the gummy |
| colour | VARCHAR(45) |  | Colour of the gummy |
| flavour | VARCHAR(45) |  | Flavour of the gummy |
| flavour\_type | VARCHAR(45) |  | Flavour type of the gummy |
| price | VARCHAR(45) |  | Price per denominator unit |
| denominator\_id | INT | Not null | **foreign key** to column id on table denominator. |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | id | PRIMARY |  |
| fk\_gummy\_denominator\_idx | denominator\_id | INDEX |  |

## Table: customer

### Description:

This data table contains name and email of the customers. All fields are required.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| id | INT | PRIMARY, Not null |  |
| first\_name | VARCHAR(45) | Not null | First name of the customer |
| last\_name | VARCHAR(45) | Not null | Last name of the customer |
| email | VARCHAR(45) | Not null | Email of the customer |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | id | PRIMARY |  |

## Table: address

### Description:

This data table contains a list of all delivery addresses in the database

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| id | INT | PRIMARY, Not null |  |
| address1 | VARCHAR(45) | Not null | First line of the address |
| address2 | VARCHAR(45) |  | Second line of the address |
| address3 | VARCHAR(45) |  | Third line of the address |
| city | VARCHAR(45) |  | City |
| province | VARCHAR(45) |  | Province or equivalent |
| country | VARCHAR(45) |  | Country |
| postal\_code | VARCHAR(45) |  | Postal code or equivalent |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | id | PRIMARY |  |

## Table: order

### Description:

This data table contains information about each order and is required to keep track of sales.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| id | INT | PRIMARY, Not null |  |
| customer\_id | INT | Not null | **foreign key** to column id on table customer. |
| address\_id | INT | Not null | **foreign key** to column id on table address. |
| date | VARCHAR(45) |  | Date at which the order was placed |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | id | PRIMARY |  |
| fk\_order\_addresse1\_idx | addresse\_id | INDEX |  |
| fk\_order\_customer1\_idx | customer\_id | INDEX |  |

## Table: gummy\_order

### Description:

This associative table contains detail about the number of gummies or each kind included in customer’s orders and can be used to keep track of inventories and customer’s preferences.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| gummy\_id | INT | PRIMARY, Not null | **foreign key** to column id on table gummy. |
| order\_id | INT | PRIMARY, Not null | **foreign key** to column id on table order. |
| quantity | VARCHAR(45) |  |  |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | gummy\_id, order\_id | PRIMARY |  |
| fk\_gummy\_order\_order1\_idx | order\_id | INDEX |  |

## Table: customer\_address

### Description:

This is an associative table connecting users to addresses, and indicating which address should be used by default when a customer places an order.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| customer\_id | INT | PRIMARY, Not null | **foreign key** to column id on table customer. |
| address\_id | INT | PRIMARY, Not null | **foreign key** to column id on table address. |
| preferred | TINYINT |  | Dichotomous variable that indicates |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | customer\_id, addresse\_id | PRIMARY |  |
| fk\_customer\_address\_addresse1\_idx | addresse\_id | INDEX |  |

## Table: denominator

### Description:

This is a lookup table with the possible denominators for the quantity and the price for gummies and gummy boxes.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| id | INT | PRIMARY, Not null |  |
| denominator | VARCHAR(45) |  | The denominator for the price |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | id | PRIMARY |  |

## Table: box

### Description:

This is a data table representing the gummy boxes offered by gummybox.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| id | INT | PRIMARY, Not null |  |
| name | VARCHAR(45) |  | Name of the gummy box |
| description | VARCHAR(45) |  | Description of the gummy box |
| price | VARCHAR(45) |  | Price of the gummy box |
| denominator\_id | INT | Not null | **foreign key** to column id on table denominator. |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | id | PRIMARY |  |
| fk\_box\_denominator1\_idx | denominator\_id | INDEX |  |

## Table: box\_order

### Description:

This associative table contains detail about the number of gummy boxes or each kind included in customer’s orders and can be used to keep track of inventories and customer’s preferences.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| box\_id | INT | PRIMARY, Not null | **foreign key** to column id on table box. |
| order\_id | INT | PRIMARY, Not null | **foreign key** to column id on table order. |
| quantity | INT |  | Quantity included in the order |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | box\_id, order\_id | PRIMARY |  |
| fk\_box\_order\_order1\_idx | order\_id | INDEX |  |

## Table: gummy\_box

### Description:

This associative table represents the composition of the gummy boxes. It indicates the quantity of gummies of each kind included in the box.

### Columns:

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Data type | Attributes | Description |
| gummy\_id | INT | PRIMARY, Not null | **foreign key** to column id on table gummy. |
| box\_id | INT | PRIMARY, Not null | **foreign key** to column id on table box. |
| quantity | VARCHAR(45) |  | Quantity of gummy included in the box |

### Indices:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Columns | Type | Description |
| PRIMARY | gummy\_id, box\_id | PRIMARY |  |
| fk\_gummy\_box\_box1\_idx | box\_id | INDEX |  |