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**CS648\_00**

**Capstone High Design**

**Database Capstone High Design: Tip & Toe Nails & Spa**

**Purpose:**

The database is designed to support a small Nails & Spa. The Website allows user to check all the services offered by Spa, the cost for each service , contact them by phone or login with email id and password and take appointments online or by calling the spa. Customers can also select or request for the specific employee they want service from.

The Web Site has following screens:

* Home screen displaying about the spa, its history and contact and location information
* Services screen to display all the services offered with the service duration and service cost.
* Promotion screen to display all the discount offers going on.
* Appointment screen to book appointments through online login or will have contact details of spa on which employee can call and make appointment. Customers can choose the employee they want service from and for which service the appointment is been booked, with date and time of the appointment .

**Technologies:**

The website uses following technologies support-

* HTML 5
* PHP 7.3
* MYSQL 8.0.12

**Database**:

To store the employee details ,customer details, appointments, services booked website uses MYSQL database. There are three Primary Tables, two support tables and two linking tables.

**Primary tables:**

* Appointments
* Employees
* Customers

**Lookup/Support tables**

* Services
* Discounts

**Linking Tables**

* Appointments\_to\_employees
* Appointments\_to\_customers

**Table Definitions:**

**Appointments**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| appointment\_id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique, Not Null |
| appointment\_date | datetime | The date for which appointment is booked | Not Null |
| appointment\_time | timestamp | The time for which appointment is booked | Not Null |
| customer\_Id | INT | customer Id from customers table to identify for which customer appointment is booked | Foreign Key join to customers table |
| employee\_Id | INT | employee Id from employees table to identify the employee with whom appointment is booked | Foreign Key join to employees table |
| Service\_id | INT | service Id from services table to identify which service is booked | Foreign Key join to services table |
| Discount\_id | INT | Discount id from discounts table to identify if any discount is applicable on the service | Foreign Key join to discounts table |
| Customer\_name | VARCHAR(30) | Name of the customer | Not Null |
| Customer\_contact | VARCHAR(30) | Customer’s mobile or landline number | Nullable |
| service\_cost | Decimal(10,2) | The price for the offered service | Not Null, Default 0.00 |
| Service\_cancellation | VARCHAR(255) | The reason for service cancellation | Nullable |

**Employees**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| employee\_id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique, Not Null |
| first\_name | VARCHAR(30) | Employee first name | Not Null |
| last\_name | VARCHAR(30) | Employee last name | Not Null |
| employee\_contact | VARCHAR(30) | Employee mobile number | Not Null |

**Customers**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| customer\_id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique, Not Null |
| first\_name | VARCHAR(30) | Customer First name | Not Null |
| Last\_name | VARCHAR(30) | Customer Last Name | Not Null |
| Customer\_mobile | VARCHAR(30) | Customer mobile number or home number | Nullable |
| Customer\_email | VARCHAR(255) | Customer email id to sign up for online booking | Nullable |
| Customer\_password | VARCHAR(60) | Customer password to sign up for online booking | Nullable |

**Services**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| service\_Id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique, Not Null |
| Service\_name | VARCHAR(65) | The offered service name | Not Null |
| service\_duration | INT | The estimated length of the service | Not Null |
| Service\_cost | decimal(10,2) | The price of the service offered | Not Null Default 0.00 |

**Discounts**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| Discount\_id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique, Not Null |
| Discount\_percent | decimal(10,2) | Discount percent applicable on service | Nullable, Default 0.00 |
| Discount\_code | VARCHAR(20) | The code required to apply the discount | Nullable |

**Appointments\_to\_employees**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| appointmnet\_employee\_Id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique Not Null |
| employee\_id | INT | employee Id from employees table | Foreign Key join to employees table, |
| appointment\_Id | INT | appointment Id from appointments table | Foreign Key join to appointment table |

**Appointments\_to\_customers**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Notes |
| appointment\_customer\_Id | INT | Auto Incremented Primary Key | Primary Key; Auto Increment, Unique, Not Null |
| customer\_id | INT | Customer id from customers table | Foreign Key join to customers table, |
| appointment\_Id | INT | Appointment id from appointments table | Foreign Key join to appointments table |