**Database Initial Design**

**Scenario:**

Fitness app provides details of fitness centers based on the location , Fitness center are categorized . customers can sign up using facebook and google logins . Customers can search any number of Fitness centers using google api’s in each such categories, Customer has (cid, name, phno, location, etc), fitness centers have(fid, type, location, phno, etc). Every Customer who searches will be able to review any Fitness centers. Admin will be able to provide offers to customers by collaborating with Customers.

**Entities:**

1: Customer

2: Fitness Center

3: Administrator

**Relations:**

1: Customer *Reviews* Fitness Center (N:M)

2: Administrator *collaborates* with Fitness center (1:N)

3: Fitness Center *provides offers* to Customer (N:M)

**Searching:**

The searching is done on basis of Business API’s provided by google, and hence there is no need to store all the data of fitness centers, only the Fitness centers whose review has to be written by customer or any offers by administrator will only be stored.

**Relational Schema:**

FITNESS\_CENTER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FID | FNAME | LOCATION | PHONE\_NO | EMAIL |

ADMIN:

|  |  |  |  |
| --- | --- | --- | --- |
| AID | ANAME | PASSWORD | FID |

CUSTOMER:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AUTH\_TYPE | CUST\_ID | CNAME | EMAIL | PHONE\_NO |

REVIEWS:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CUST\_ID | FID | REVIEW\_ID | RATINGS | REVIEW\_DATE |

OFFERS:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CUST\_ID | FID | START\_DATE | END\_DATE | OFFER\_ID | OFFER\_TYPE | OFF\_DETAILS | OFFER\_PER |

**Entity Aalysis:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Entity** | **Attributes** | **Type** | **Keys** | **Domain** |
| FITNESS\_CENTER | * Fid * Fname * Location * Phoneno * email | * integer * String * String * Longint * string | Primary key(Fid) | * Fid * Fname * Location * Phoneno * email |
| ADMIN | * Aid * Aname * Password * Fid | * Int * String * String * Int | Foreign key(Fid) | * Aid * Aname * Password * Fid |
| CUSTOMER | * Auth\_type * Custid * Cname * Email * Phoneno | * String * Int * String * String * Longint | Primary key(Custid) | * Auth\_type * Custid * Cname * Email * Phoneno |
| REVIEWS | * Custid * Fid * Review\_id * Ratings * ReviewDate | * Int * Int * Int * Int * Date | Primary key(Review\_id)  Foreign key(custid,Fid) | * Custid * Fid * Review\_id * Ratings * ReviewDate |
| OFFERS | * Custid * Fid * Start\_Date * End\_Date * Offer\_id * Offer\_type * Offer\_Detail * Offer\_per | * Int * Int * Date * Date * Int * String * String * Int | Primary key(Offer\_id)  Foreign key(custid,Fid) | * Custid * Fid * Start\_Date * End\_Date * Offer\_id * Offer\_type * Offer\_Detail * Offer\_per |

FITNESS\_CENTER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FID** | **FNAME** | **LOCATION** | **PHONE\_NO** | **EMAIL** |
| 100 | Golds gym | Kengeri | 9874562132 | [gg@gmail.com](mailto:gg@gmail.com) |
| 200 | Sai yoga | Rajainagar | 9564822121 | [ss@gmail.com](mailto:ss@gmail.com) |
| 300 | Abc aerobics | Kengeri | 8781254554 | [aa@gmail.com](mailto:aa@gmail.com) |
| 400 | Xyz gyms | Majestic | 7484545455 | kk@gmail.com |
|  |  |  |  |  |

ADMIN

|  |  |  |  |
| --- | --- | --- | --- |
| **AID** | **ANAME** | **PASSWORD** | **FID** |
| 0015 | Admin | \*\*\*\*\*\*\*\* | 100 |
| 0015 | Admin | \*\*\*\*\*\*\*\* | 200 |
| 0015 | Admin | \*\*\*\*\*\*\*\* | 300 |

Customer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **AUTH\_TYPE** | **CUST\_ID** | **CNAME** | **EMAIL** | **PHONE\_NO** |
| Google | 3 | Sum | [s@yahoo.in](mailto:s@yahoo.in) | 9658458875 |
| Facebook | 7 | Yogi | [Y@gmail.com](mailto:Y@gmail.com) | 8985765455 |
| Google | 9 | Sujith | [ss@yahoo.in](mailto:ss@yahoo.in) | 9788646555 |

REVIEWS:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CUST\_ID** | **FID** | **REVIEW\_ID** | **RATINGS** | **REVIEW\_DATE** |
| 3 | 100 | 50111 | 4 | 31/01/2016 |
| 3 | 200 | 50112 | 5 | 20/02/2016 |
| 7 | 100 | 50124 | 4 | 21/02/2016 |
| 9 | 300 | 25125 | 1 | 3/03/2016 |
| 9 | 400 | 26545 | 2 | 06/06/2016 |

Offers

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CUST\_ID | FID | START\_DATE | END\_DATE | OFFER\_ID | OFFER\_TYPE | OFF\_DETAILS | OFFER\_PER |
| 3 | 100 | 31/01/2016 | 1/4/2016 | 1011 | Discount on Fe | Text message | 20% |
| 3 | 200 | 2/05/2016 | 1/8/2016 | 1022 | Dis on fee | Tm | 30% |
| 7 | 100 | 31/06/2016 | 1/7/2016 | 1025 | Off on nutrition | Tm | 10% |
|  |  |  |  |  |  |  |  |