**Project Name:**

Online Restaurant Management System

**Description:**

An online restaurant basically provides home delivery service of food items. It maintains a list of foods that it offers. When a customer places an order, the restaurant keeps records of the customer like customer’s name, address, contact information etc. and payment information. As the name indicates, an online restaurant also provides online payment facility. Information of online payments are saved to the system database.

**Schema Diagram:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 1 – food   |  | | --- | | food\_code(pk) | | food\_type | | pood\_name | | price\_per\_item | | Table 3 – ordered\_food   |  | | --- | | o\_customer\_id(fk) | | o\_food\_code(fk) | | no\_of\_food | |
| Table 2 – home\_delivery   |  | | --- | | customer\_id(pk) | | name | | address | | contact\_no | | order\_date | | delivery\_date | | payment\_type | | paid\_amount | | Table 4 – online\_payment   |  | | --- | | p\_customer\_id(fk) | | card\_type | | card\_no | |

* pk - primary key
* fk – foreign key

**Implementation:**

4 tables.

* food
* home\_delivery
* ordered\_food
* online\_payment

**Creating table-**

create table food(

food\_code number(3) not null,

food\_type varchar(10),

food\_name varchar(30) unique,

price integer check(price>0),

primary key(food\_code)

);

create table home\_delivery(

customer\_id varchar(5) not null,

name varchar(20),

address varchar(30),

contact\_no number(15),

order\_date date,

delivery\_date date,

payment\_type number(20),

paid\_amount integer check(paid\_amount>0),

primary key(customer\_id)

);

create table ordered\_food(

o\_customer\_id varchar(5),

o\_food\_code number(3),

no\_of\_food integer,

day date,

foreign key(o\_customer\_id) references home\_delivery,

foreign key(o\_food\_code) references food

);

create table online\_payment(

p\_customer\_id varchar(5),

card\_type varchar(20),

foreign key(p\_customer\_id) references home\_delivery

);

**Dropping table-**

drop table food;

drop table home\_delivery;

drop table ordered\_food;

drop table online\_payment;

**Adding column to a table-**

alter table online\_payment add card\_no number(20);

**Modifying a single column-**

alter table home\_delivery modify payment\_type varchar(15);

**Renaming column-**

alter table food rename column price to price\_per\_item;

**Dropping column from a table-**

alter table ordered\_food drop column day;

**Discussion:**

In the above project, I implemented almost all the basic features of Oracle database. I applied DDL (Database Definition Language) to create table, alter column name or column type. I also used DML (Database Modification Language) to insert, update and delete rows of the tables. For calculation purpose, I used PL/SQL, function and procedure. Trigger was used to validate data before inserting into or updating rows of a table. This mini project (Online Restaurant Management System) helped me learn about the basics of database.