**Restaurant Management System**

**Problem Statement:**

**We created a scenario where an owner of multiple restaurants wants to create a database system for better management of the restaurant business. Using this database system, the owner wants to improve his restaurant management process. Also, using this database he would like to overcome the drawbacks of the current management system.**

* Each restaurant branch is located at a different location, each branch has a unique branch id, branch location, number of tables/accommodation with unique table id, total number of employees working in every branch and their associated roles and salary.
* Expenses for Restaurant(Id, Name ,date ,cost) , Like utilities cost, gas cost, water cost, Food cost.
* Every restaurant/branch has multiple departments. Every department has a name, Unique ID, branch name, department's manager name. Each department should have a minimum of 3 employees.
* Restaurant branches will have system to maintain a record of every employee, emp unique ID, emp name, emp address, emp salary, emp sex, emp birth date, name of the branch he is working in, emp role, department name he is working for, emp working, name of the manager he is working under. Employee will have at most 1 manager, given a manager will have at least 1 employee
* Branch will keep track of different customer age groups and their respective order.
* Every order placed by the customer has a unique order ID, date and time of order, price of the order.
* Order has Order ID , Dish ID, Branch ID, Date, Day, Time.
* Each restaurant has a dish menu,price, recommendation, ingredients, date of recipe creation, inventory for each branch and respective recipe and chef id with it. Each branch will have at least 5 dishes.
* After ordering, customers will receive an invoice which includes tax applied, mode of payment, transactionid.

**Business Goals:**

1. **Owners can get a sales report for each branch and use it to compare profits and loss of the branch.**  
   (from branch ID , sales - expenses - emp salary)
2. **Which branch has the most Revenue?**  
   ( based on Invoice, branch Id)
3. **Which dish makes more revenue ?**  
   (based on invoice and order ID, Dish ID)
4. **Owner can get to know which time is more crowded for restaurants?**  
   (Based on Order Date, Time)
5. **Which day of the week has less Orders ?**  
   (example: based on date and day in Order table  
    To increase sale on days which have fewer orders)
6. **Which are our regular customers?**

( Based on customer ordered data we can recognise the loyal customer Offer memberships or special prices)

1. **We want to understand Popular dishes in each restaurant location**

( based on dish which has been ordered maximum times)   
Increase number of servings of popular dish in other branches

1. **Which customer age group is visiting the restaurant maximum times?**(Based on customer age attribute 18 to 30, 31 to 45, 46 to 60)
2. **Based on orders, we want to open/expand Restaurants in locations which have more crowds to reduce the workload of existing branches.**