

Final Project Report

Project Name :

Rahat Bakers Management System

Submitted to :

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Submitted by :

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Acknowledgments:

In the name of Allah the most beneficial and merciful who, give us the power of completion of this Database project.

Dedication:

We hereby declare that we made this project with the help of Allah Almighty and we dedicate this project to our Parents.

Project Description:

The project is about ‘Rahat Bakers Management System’. The management system had a lot of importance everywhere. Our project covers all the important aspects of a complete database. Our database project contain the following entities.

1. Branch
2. Customer\_bio
3. Customer\_address
4. Delivery
5. Employee
6. Expenses
7. Menu
8. Purchase
9. Recipe\_name
10. Recipe\_type
11. Sale
12. Stock
13. Supplier\_bio
14. Supplier\_address
15. Transport

Purchase

Supplier

Recipe

Customer

Employee

Has

Expense

Branch

Has

has

Delivery

Has

Transport

Stock

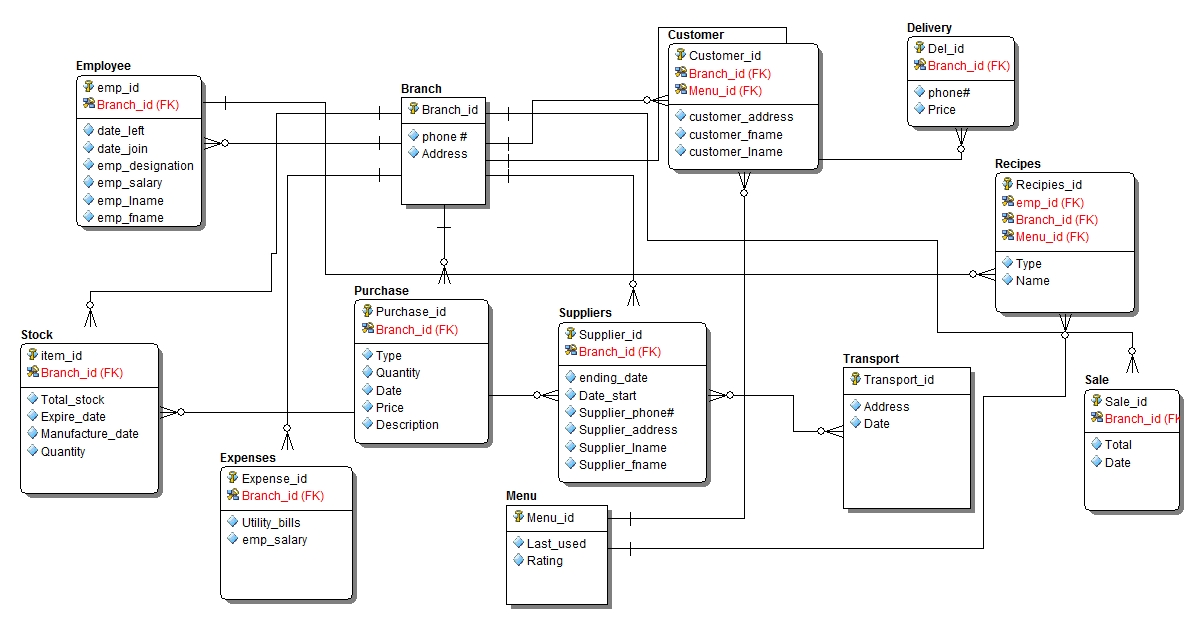
Has

Has

Sale

Menu

**UML**

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**ERD with Normalized form**

Recipe\_type

Customer\_address

Supplier\_Bio

Customer\_bio

Employee

Has

Expense

Branch

Has

has

Recipe\_name

Purchase

Supplier\_address

Delivery

Has

Transport

Stock

Has

Has

Sale

Menu

Script of a Normalized ERD of Rahat Bakers Database Management System

Table: Branch

Branch\_id (PK) VARCHAR2(20)

Phone# VARCHAR2(20)

Address VARCHAR2(40)

Table:Employee

Emp\_id (PK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

Emp\_fname VARCHAR2(20)

Emp\_lname VARCHAR2(20)

Emp\_salary VARCHAR2(20)

Emp\_designation VARCHAR2(40)

Date\_left VARCHAR2(20)

Date\_join VARCHAR2(20)

Table:Customer\_bio

Cus\_id (PK) VARCHAR2(20)

branch\_id (FK) VARCHAR2(20)

menu\_id (FK) VARCHAR2(20)

cus\_fname VARCHAR2(20)

cus\_lname VARCHAR2(20)

Table:Customer\_address

Cus\_id (FK) VARCHAR2(20)

branch\_id (FK) VARCHAR2(20)

menu\_id (FK) VARCHAR2(20)

cus\_address VARCHAR2(20)

Table: Expense

Expense\_id(PK) VARCHAR2(20)

Branch\_id(FK) VARCHAR2(20)

Utiliy\_bills VARCHAR2(20)

Emp\_salary VARCHAR2(20)

Table: Delivery

Del\_id (PK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

Phone# VARCHAR2(20)

Address VARCHAR2(20)

Table:Stock

Item\_id (PK) VARCHAR2(20)

Branch\_id ( FK) VARCHAR2(20)

Total\_stock VARCHAR2(20)

Expire\_date VARCHAR2(20)

Manufacture\_date VARCHAR2(20)

Quantity VARCHAR2(20)

Table: Purchase

Purchase\_i d(PK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

Type VARCHAR2(20)

Quantity VARCHAR2(20)

Date VARCHAR2(20)

Price VARCHAR2(20)

Description VARCHAR2(20)

Table: Supplier\_Bio

Sup\_id (PK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

End\_date VARCHAR2(20)

Date\_start VARCHAR2(20)

Phone# VARCHAR2(20)

sup\_fname VARCHAR2(20)

sup\_lname VARCHAR2(20)

Table: Supplier\_address

Sup\_id (FK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

Phone# VARCHAR2(20)

Address VARCHAR2(40)

Table: Transport

Transport\_id (PK) VARCHAR2(20)

Date VARCHAR2(20)

Address VARCHAR2(20)

Table: Menu

Menu\_id (PK) VARCHAR2(20)

Last\_used VARCHAR2(20)

Rating VARCHAR2(20)

Table: Sale

Sale\_id VARCHAR2(20)

Branch\_id VARCHAR2(20)

Total VARCHAR2(20)

Date VARCHAR2(20)

Table: Recipe\_name

Recipe\_id (PK) VARCHAR2(20)

Emp\_id (FK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

Menu\_id (FK) VARCHAR2(20)

Name VARCHAR2(20)

Table:Recipe\_type

Recipe\_id (FK) VARCHAR2(20)

Emp\_id (FK) VARCHAR2(20)

Branch\_id (FK) VARCHAR2(20)

Menu\_id (FK) VARCHAR2(20)

Type VARCHAR2(20)

Queries list

Sub-queries

Query #1

For branch info

Select \* from branch where branch\_id = (select branch\_id from purchase where price = 6000 );

Query #2

For checking menu rating

Select rating , last\_used from menu where menu\_id= ( select menu\_id from customer\_bio where cus\_fname='Unsub');

Query #3

For supplier complete info

select sup\_id ,sup\_fname,sup\_lname from supplier\_bio where sup\_id= ( select sup\_id from transport where tra\_id =100);

Aggregation and grouping queries

Query #4

Sum of employee salary

select branch\_id, sum (emp\_salary) from employee group by branch\_id having branch\_id = '004' order by branch\_id;

Query #5

Employee first and last name and salary using over function

select emp\_fname,emp\_lname , emp\_salary, count(\*) over (order by emp\_salary) from employee order by emp\_salary , emp\_fname , emp\_lname;

Query #6

Shows employee name using max function

select max(emp\_fname) from employee where emp\_fname like 'A%';

Show employee salaries

Query #7

select avg(emp\_salary) ,max(emp\_salary) , min(emp\_salary) , sum(emp\_salary) from employee where emp\_id = 10;

Having clause

Query #8

Show sum of employee salary in order whose salary > 1000

select emp\_id , sum(emp\_salary) from employee group by emp\_id having sum(emp\_salary) >1000 order by sum(emp\_salary);

Extra queries

Query #9

Employee salary \* by 20

select emp\_fname,emp\_salary \* 20 from employee where emp\_salary > 5000 ;

Query #10

Count function on supplier name

select sup\_id ,count(sup\_fname) from supplier\_bio group by sup\_id;