



GEETA PUBLIC SCHOOL

CAFE MANAGEMENT SYSTEM



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ROLL NUMBER: 11

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SUBJECT: INFORMATION TECHNOLOGY

/ COMPUTER APPLICATIONS

ACKNOWLEDGEMENT

I WOULD LIKE TO EXPRESS MY SINCERE GRATITUDE TO MY RESPECTED TEACHER MR. SUKHWINDER SINGH SOHAL SIR FOR HIS VALUABLE GUIDANCE, CONSTANT SUPPORT, AND ENCOURAGEMENT THROUGHOUT THE COMPLETION OF THIS PROJECT. I ALSO THANK MY SCHOOL, GEETA PUBLIC SCHOOL, FOR PROVIDING THE NECESSARY RESOURCES AND A CONDUCIVE ENVIRONMENT FOR LEARNING. THIS PROJECT HELPED ME UNDERSTAND DATABASE CONCEPTS PRACTICALLY AND ENHANCED MY KNOWLEDGE AND SKILLS IN INFORMATION TECHNOLOGY.

— Divyansh Rajawat



GEETA PUBLIC SCHOOL CERTIFICATE



THIS IS TO CERTIFY THAT DIVYANSH RAJAWAT, A STUDENT OF CLASS X – A (ROLL NO. 11) OF GEETA PUBLIC SCHOOL, HAS SUCCESSFULLY COMPLETED THE PROJECT TITLED “CAFE MANAGEMENT SYSTEM” AS A PART OF THE CBSE CURRICULUM.

THE PROJECT HAS BEEN DESIGNED AND DEVELOPED USING LIBREOFFICE DATABASE (BASE), AND THROUGH THIS PROJECT, THE STUDENT HAS GAINED PRACTICAL KNOWLEDGE AND MASTERED THE BASIC CONCEPTS OF LIBREOFFICE DATABASE MANAGEMENT, INCLUDING TABLES, FORMS, QUERIES, AND REPORTS.

THIS PROJECT IS AN ORIGINAL WORK CARRIED OUT UNDER THE VALUABLE GUIDANCE AND SUPERVISION OF MR. SUKHWINDER SINGH SOHAL SIR, SUBJECT TEACHER, INFORMATION TECHNOLOGY / COMPUTER APPLICATIONS.

WE APPRECIATE THE EFFORTS AND DEDICATION SHOWN BY THE STUDENT DURING THE COMPLETION OF THIS PROJECT.

DATE: _____

TEACHER'S SIGNATURE:

SCHOOL STAMP

1. INTRODUCTION

A **Cafe Management System** is a computerized system used to manage café operations such as menu handling and staff management.

In this project, **LibreOffice Base** is used to create a structured database consisting of **tables, queries, forms, and reports**.



**LibreOffice
Base**

2. OBJECTIVE OF THE PROJECT

- To manage café menu digitally
- To store staff details securely
- To retrieve information using SQL queries
- To understand database concepts practically
- To reduce paperwork and human errors

3. CAFE MANAGEMENT SYSTEM AS AN ECOSYSTEM

The Cafe Management System works like an **ecosystem**, where different components interact with each other:

- **Tables** → Store raw data (Menu & Staff)
- **Queries** → Process and filter data
- **Forms** → Provide user-friendly data entry
- **Reports** → Generate printable outputs

All components work together to make the system efficient, organized, and reliable—just like a real-world management ecosystem.

4. TOOLS & SOFTWARE USED

- **Software:** LibreOffice Base
- **Database Type:** Embedded HSQLDB
- **Operating System:** Windows
- **Language Used:** SQL (Structured Query Language)

5. DATABASE DESIGN

The database contains **two main tables:**

- **Menu**
- **staff_fullinfo**

These tables are connected logically and store all café-related data.

Table 1: Menu

Field Name	Data Type	Description
Item no	Integer	Unique item number
Item name	Text	Name of food item
Item price	Integer	Price
Category	Text	Food category

THE MENU TABLE STORES INFORMATION ABOUT ALL FOOD AND DRINK ITEMS AVAILABLE IN THE CAFE.

IT CONTAINS FIELDS SUCH AS ITEM NO, ITEM NAME, ITEM PRICE, AND CATEGORY.

ITEM NO UNIQUELY IDENTIFIES EACH ITEM, WHILE ITEM PRICE IS USED FOR BILL CALCULATION.

CATEGORY HELPS IN CLASSIFYING ITEMS LIKE BREAKFAST, MAIN COURSE, FAST FOOD, SWEETS, AND DRINKS.

TABLE 2: STAFF_FULLINFO

Field Name	Data Type	Description
ID	Integer	Staff ID
Name	Text	Staff name
Profession	Text	Job role
Salary	Integer	Salary
Phone	Text	Contact number
Address	Text	Address
Joining Date	Date	Date of joining
Shift	Text	Morning / Evening / Night
Status	Text	Active / Inactive
Age	Integer	Age
Gender	Text	Gender
Aadhar	Text	Aadhar number
Email	Text	Email
Emergency Contact	Text	Emergency phone
Salary Type	Text	Daily / Monthly

THE STAFF TABLE STORES COMPLETE INFORMATION ABOUT THE EMPLOYEES WORKING IN THE CAFE. IT CONTAINS DETAILS SUCH AS STAFF ID, NAME, PROFESSION, SALARY, AND CONTACT INFORMATION. FIELDS LIKE SHIFT, STATUS, AND SALARY TYPE HELP IN MANAGING STAFF WORK SCHEDULES AND PAYMENTS. JOINING DATE, AGE, AND GENDER PROVIDE PERSONAL AND EMPLOYMENT DETAILS OF STAFF MEMBERS. THIS TABLE HELPS IN EFFECTIVE STAFF MANAGEMENT AND MAINTAINS PROPER EMPLOYEE RECORDS IN THE SYSTEM.

7. STEPS TO CREATE TABLES

- OPEN **LIBREOFFICE BASE**.
- CLICK ON **TABLES** FROM THE DATABASE WINDOW.
- SELECT **CREATE TABLE IN DESIGN VIEW**.
- ENTER THE REQUIRED **FIELD NAMES AND DATA TYPES**.
- SET THE **PRIMARY KEY** FOR UNIQUE IDENTIFICATION.
- SAVE THE TABLE.
- NAME THE TABLES AS **MENU** AND **STAFF_FULLINFO**.

Tables

- Menu
- staff_fullinfo

	Field Name	Field Type
	Item no	Integer [INTEGER]
		CHAR]
		INTEGER]
		CHAR]

Cut
Copy
Delete
✓ Primary Key

8. STEPS TO CREATE QUERIES

- OPEN **LIBREOFFICE BASE DATABASE**.
- CLICK ON **QUERIES** FROM THE LEFT PANEL.
- SELECT **CREATE QUERY IN SQL VIEW**.
- WRITE THE REQUIRED **SQL COMMAND**.
- EXECUTE THE QUERY TO VIEW RESULTS.
- SAVE THE QUERY FOR FUTURE USE.

Queries

- Avg price
- Drinks
- Fast Food
- Morning Shift
- Salery high to low

```
cafe managem...
File Edit View Insert Tools
SELECT * FROM "Menu"
WHERE "Category" = 'Drinks'
```

◆ Drinks Query

```
SELECT * FROM "Menu"
WHERE "Category" = 'Drinks';
```

◆ Fast Food (Price > 150)

```
SELECT * FROM "Menu"
WHERE "Category" = 'Fast Food'
AND "Item price" > 150;
```

◆ Average Price (Category-wise)

```
SELECT "Category", AVG("Item price") AS  
"Avg_Price"  
FROM "Menu"  
GROUP BY "Category";
```

◆ Morning Shift Staff

```
SELECT "Name", "Profession", "Shift"  
FROM "staff_fullinfo"  
WHERE "Shift" = 'Morning';
```

◆ Salary High to Low

```
SELECT "ID", "Name", "Profession", "Salary"  
FROM "staff_fullinfo"  
ORDER BY "Salary" DESC
```

The screenshot shows five overlapping windows of a database application, each displaying a different SQL query. The queries are:

- Window 1: `SELECT "ID", "Name", "Profession", "Salary" FROM "staff_fullinfo" ORDER BY "Salary" DESC`
- Window 2: `SELECT "Name", "Profession", "Shift" FROM "staff_fullinfo" WHERE "Shift" = 'Morning'`
- Window 3: `SELECT * FROM "Menu" WHERE "Category" = 'Fast Food' AND "Item price" > 150`
- Window 4: `SELECT * FROM "Menu" WHERE "Category" = 'Drinks'`
- Window 5: `SELECT "Category", AVG("Item price") AS "Avg_Price" FROM "Menu" GROUP BY "Category"`

The screenshot shows a database application window titled "Menu - cafe management system project...". The window displays a table with the following data:

Item no	Item name	Item price	Category
1	Cold Coffee	60	Drinks
2	Hot Coffee	90	Drinks
3	Black Coffee	80	Drinks
4	Masala Chai	70	Drinks
5	Lemon Tea	60	Drinks
6	Green Tea	60	Drinks
7	Mango Shake	80	Drinks
8	Strawberry Sha	60	Drinks
9	Chocolate Sha	60	Drinks
10	Fresh Lime Sod	60	Drinks
11	Buttermilk	100	Drinks
12	Hot Chocolate	40	Drinks
13	Iced Tea	100	Drinks
14	Orange Juice	80	Drinks
15	Apple Juice	40	Drinks
16	Veg Burger	180	Fast Food
17	Cheese Burger	180	Fast Food
18	Margherita Piz	150	Fast Food
19	Paneer Pizza	200	Fast Food
20	Veg Sandwich	200	Fast Food
21	Grilled Veg Sar	80	Fast Food
22	Veg Wrap	150	Fast Food
23	Crispy Fries	80	Fast Food
24	Cheese Fries	150	Fast Food

The status bar at the bottom of the window shows "Record 1 of 77 *".

ID	Name	Profession	Salary	Phone	Address	Joining Date	Shift	Status	Age	Gender	Aadhar	Email	Emergency Contact	Salary Type
1	ayaush	Manager	33000	997360272	Town Area, S	27/05/19	Evening	Active	53	Male	502239456	hariom.reddy31@ex	9946007794	Monthly
2	hariom ve	Cleaner	7000	92381366	Sector 5, Shi	05/04/18	Morning	Active	37	Male	916816090	sunita.thakur38@ex	9157928406	Daily
3	Manish Ku	Cleaner	10000	992550934	Near Bus Sta	29/08/19	Night	Inactive	50	Female	726016232	manish.kumar42@e	9390778849	Daily
4	Ajay Bhatt	waiter	12000	942309501	Shivpuri, MP	10/10/18	Evening	Inactive	23	Male	685318561	ajay.bhatt18@exam	9383468458	Monthly
5	Jagdish G	Cook	16000	97887321	Town Area, S	18/07/24	Morning	Active	52	Male	423261694	jagdish.gupta70@e	9974831855	Daily
6	Mukesh Sh	Receptionist	18000	97511446	Near Bus Sta	27/08/18	Evening	Inactive	24	Male	951889824	mukesh.sharma50@	9272946516	Daily
7	Kiran Thak	Master-Chef	31000	93544928	Shivpuri, MP	05/05/25	Morning	Inactive	21	Male	648580620	kiran.thakur38@exa	9938518106	Daily
8	Ajay Dhak	Accountant	23000	94762730	Sector 5, Shi	16/09/23	Morning	Inactive	40	Female	291547873	ajay.dhakad37@exa	9443577404	Monthly
9	Suraj Yada	Master-Chef	30000	995284961	Near Bus Sta	13/08/24	Night	Active	30	Male	799787543	suraj.yadav37@exar	9495607185	Daily
10	Ramesh Ti	Cook	14000	92236540	Near Bus Sta	03/05/18	Evening	Inactive	22	Female	354043148	ramesh.thakur27@e	9883661231	Daily
11	Sahil Chan	Receptionist	16000	962409327	Near Bus Sta	03/12/23	Morning	Active	25	Female	588341751	sahil.chandra77@ex	9774093142	Daily
12	Kiran Shar	Chef	26000	91351206	Near Bus Sta	01/09/24	Night	Inactive	55	Female	723678893	kiran.sharma95@ex	9060643349	Daily
13	Ritu Yadav	Guard	9000	92637990	Town Area, S	04/10/20	Night	Active	45	Female	572550896	ritu.yadav34@exam	9544817830	Monthly
14	Ramesh Ki	Helper-Chef	16000	984613601	Town Area, S	10/06/24	Night	Inactive	49	Female	029551060	ramesh.kohli10@ex	9838512321	Daily
15	Gora Kohli	Manager	35000	90008352	Near Bus Sta	30/03/23	Night	Active	25	Male	947410144	gora.kohli14@exam	9583227604	Daily
16	Neha Seng	waiter	13000	98037013	Near Bus Sta	16/08/25	Night	Inactive	33	Female	447335492	neha.sengar42@exa	9235374003	Daily
17	Pawan Sin	Guard	9000	936073151	Near Bus Sta	23/08/25	Evening	Active	37	Female	058399849	pawan.singh47@ex	9646549795	Daily
18	Vinod Sha	Supervisor	23000	90989346	Town Area, S	25/12/23	Night	Inactive	31	Male	766349638	vinod.sharma68@ex	9893189519	Daily
19	Vinod Kun	Cleaner	7000	90618965	Town Area, S	19/10/25	Evening	Inactive	43	Male	513298392	vinod.kumar57@ex	9621929676	Monthly
20	Vikram Bis	waiter	12000	95132346	Sector 5, Shi	13/06/19	Night	Inactive	23	Female	970887981	vikram.bisht52@exa	9427129460	Monthly
21	Sanskar Pa	Owner	90000	85969858	Barodi shivp	19/11/25	full time	active	16	male	859857952	Sanskaribaccha@g	9758956857	monthly
22	Ram Moh	waiter	7000	942513067	Town Area, S	12/12/08	morning	inactive	19	male	157765578	Mohan745@gmail.c	9568625634	Daily

STEPS TO CREATE FORM (JOINING FORM)

A. Creating Main Form (Joining Form)

Step 1: Open Forms Section

- Open your database file
cafe management system project 1.odb
- Click on **Forms** in the left panel
- Select **Use Wizard to Create Form**

Step 2: Select Table

- From **Tables**, select **staff_fullinfo**
- Move **all fields (>>)** to the selected fields area
- Click **Next**

Step 3: Arrange Fields

- Choose **No subform at this stage**
- Click **Next**

Step 4: Data Entry Mode

- Select **Display all data**
- Allow **Add / Modify / Delete records**
- Click **Next**

Step 5: Choose Layout

- Select **Columnar – Labels on Left**
- Click **Next**

Step 6: Apply Style

- Choose any style (Default)
- Click **Next**

Step 7: Name the Form

- Enter form name as **Joining**
- Select **Modify the form**
- Click **Finish**

B. Designing the Form (To Match Your Image)

Step 8: Open Form in Design Mode

- Right-click on **Joining**
- Select **Edit**

Step 9: Adjust Field Boxes

- Resize text boxes
- Align fields properly
- Change font size and color
- Place fields in two columns (left & right)

Step 10: Add Background Image

- Click **Form → Page Style**
- Go to **Background**
- Choose **Bitmap**
- Select café image
- Click **OK**

Step 11: Format Controls

- Right-click on any text box → **Control Properties**
- Change:
 Background color ,Border ,Font color
- Repeat for all fields

Step 12: Save the Form

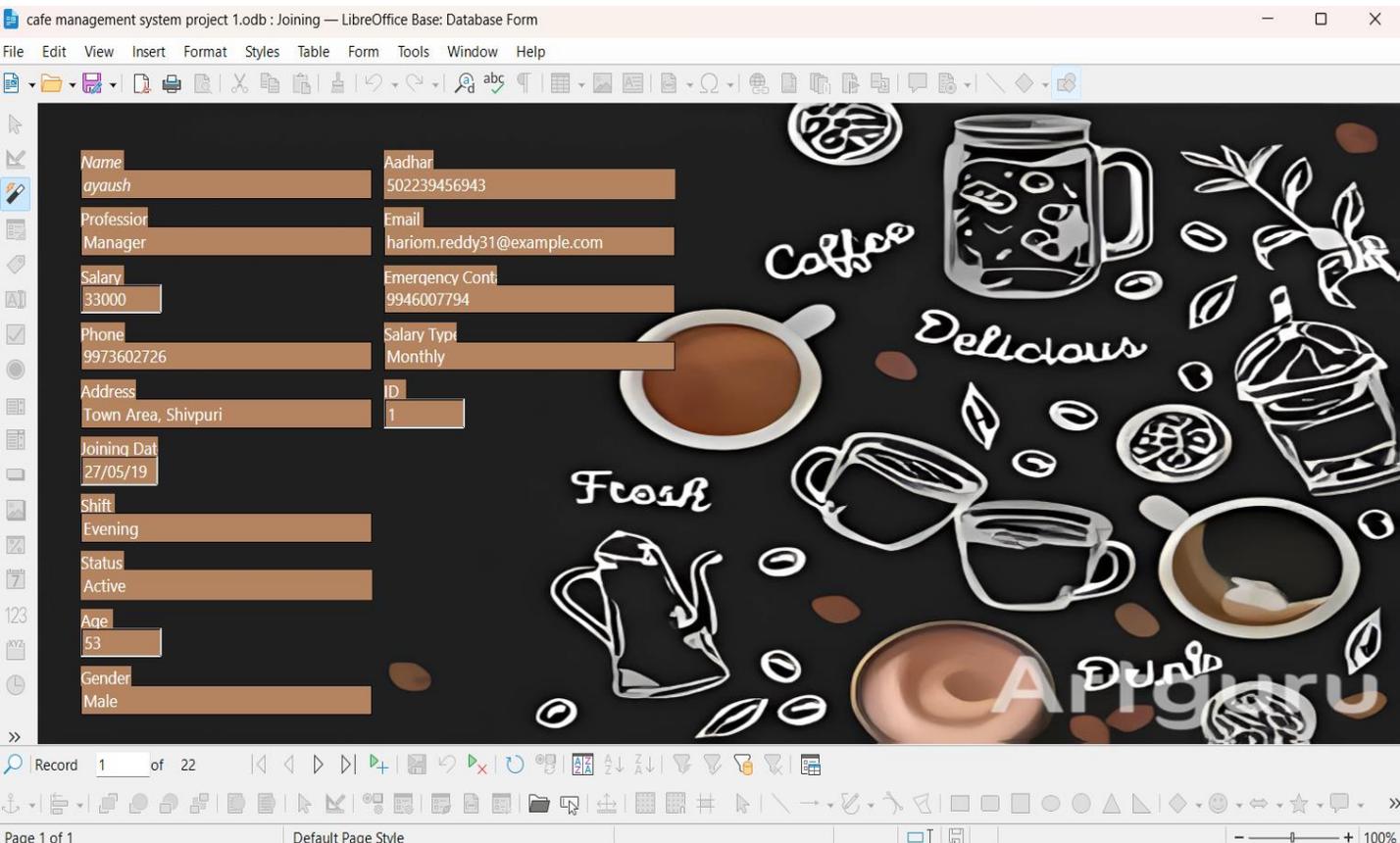
- Click **Save**
- Close design mode

Creating Subform Using Wizard

- Click **Forms** → **Use Wizard to Create Form**
- Select **staff_fullinfo** as the main table and choose required fields → **Next**
- Choose **Add Subform** → **Next**
- Select **Menu** table and choose **Item name, Item price, Category** → **Next**
- Choose **No relationship** → **Next**
- Select **Tabular layout** → **Next**
- Name the form **Joining with Subform**, select **Modify the form** → **Finish**

D. Positioning Subform in Design View

- Resize and place the subform at the bottom or right side
- Align properly
- Click **Save** and exit design mode



10. REPORTS

◆ Steps to Create Report

- Click on **Reports** from the left panel
- Select **Use Wizard to Create Report**
- Choose the required table (**Menu** or **staff_fullinfo**)
- Select all required fields
- Arrange fields as needed and click **Next**
- Choose layout and style
- Click **Finish** and save the report

◆ Reports Created

- **Menu Report** – Displays all menu items with price and category in printable format



GEETA PUBLIC SCHOOL

CAFE MANAGEMENT SYSTEM



Item no	1	Item price	60
Item name	Cold Coffee	Category	Drinks
Item no	2	Item price	90
Item name	Hot Coffee	Category	Drinks
Item no	3	Item price	80
Item name	Black Coffee	Category	Drinks
Item no	4	Item price	70
Item name	Masala Chai	Category	Drinks
Item no	5	Item price	60
Item name	Lemon Tea	Category	Drinks
Item no	6	Item price	60
Item name	Green Tea	Category	Drinks
Item no	7	Item price	80
Item name	Mango Shake	Category	Drinks

Staff Full Info Report – Displays complete staff details such as name, profession, salary, shift, and contact information



GEETA PUBLIC SCHOOL CAFE MANAGEMENT SYSTEM



ID	1	Status	Active
Name	ayaush	Age	53
Profession	Manager	Gender	Male
Salary	33000	Aadhar	502239456943
Phone	9973602726	Email	hariom.reddy31@exa▶
Address	Town Area, Shivpuri	Emergency Contact	9946007794
Joining Date	27/05/19	Salary Type	Monthly
Shift	Evening		
ID	2	Status	Active
Name	hariom verma	Age	37
Profession	Cleaner	Gender	Male
Salary	7000	Aadhar	916816090868
Phone	9238136652	Email	sunita.thakur38@exa▶
Address	Sector 5, Shivpuri	Emergency Contact	9157928406
Joining Date	05/04/18	Salary Type	Daily
Shift	Morning		
ID	3	Status	Inactive
Name	Manish Kumar	Age	50
Profession	Cleaner	Gender	Female
Salary	10000	Aadhar	726016232270
Phone	9925509340	Email	manish.kumar42@exa▶
Address	Near Bus Stand,	Emergency Contact	9390778849
Joining Date	29/08/19	Salary Type	Daily
Shift	Night		
ID	4	Status	Inactive
Name	Ajay Bhatt	Age	23
Profession	waiter	Gender	Male
Salary	12000	Aadhar	685318561848
Phone	9423095010	Email	ajay.bhatt18@examp▶
Address	Shivpuri, MP	Emergency Contact	9383468458
Joining Date	10/10/18	Salary Type	Monthly
Shift	Evening		

11. ADVANTAGES OF CAFE MANAGEMENT SYSTEM

- Stores menu and staff data in an organized manner
- Reduces paperwork and saves time
- Provides fast and accurate data retrieval using queries
- Easy data entry using forms
- Generates printable reports for records
- Improves efficiency and management of café operations
- User-friendly and easy to use

12. CONCLUSION

The **Cafe Management System** developed using **LibreOffice Base** is an effective database solution for managing café-related information. This project helped me understand how tables, queries, forms, and reports work together in a real-life system. It improved my knowledge of database management and SQL queries. Overall, this project is useful, efficient, and fulfills the objectives of the CBSE Class 10 curriculum.

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