

# **Visveswaraya Technological University Belagavi – 590018, Karnataka**



## **A Mini Project Report on “APARTMENT MANAGEMENT DATABASE”**

Mini Project Report submitted in partial fulfilment of the requirement for the  
DBMS Laboratory with Mini Project [18CSL58]

**Bachelor of Engineering  
In  
Computer Science and Engineering**

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**CERTIFICATE**

Certified that the mini project work entitled "**APARTMENT MANAGEMENT DATABASE**" carried out by **Aditya Krishnan [1JT19CS004]** and **Abhishek Kumar [1JT19CS002]** bonafide students of Jyothy Institute of Technology, in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** department of the **Visvesvaraya Technological University, Belagavi** during the year **2021-2022**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree

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Signature with Date:

## **ACKNOWLEDGEMENT**

Firstly, we are very grateful to this esteemed institution “**Jyothy Institute of Technology**” for providing us an opportunity to complete our project.

We express our sincere thanks to our **Principal Dr. Gopalakrishna K** for providing us with adequate facilities to undertake this project.

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Finally, we would thank all our friends who have helped us directly or indirectly in this project.

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## **ABSTRACT**

The aim of this project is to create a functional application to manage the daily operations of apartments and simplify various aspects of apartment management such as rent collection, booking an apartment, availability of apartments etc that are normally very tedious to maintain using traditional methods.

This software helps them to digitize their records, which in turn saves a lot of time and money. For a manager or a company that owns multiple apartments, keeping track of each one is very difficult. They need to note down and maintain every detail for every apartment, keep track of apartments that are already booked, yet to be booked, payment status, etc. Expansion also bring in many challenges as their existing data need to be modified to reflect any additions.

In the proposed system, each tenant has his/her details stored in the database. The monthly rent can be entered for each resident which can save time. With this application, enable property managers to keep track and maintain records of their entire property easily. Any important information such as available blocks, flats, details of residents, rent paid can be found with just a click of a button.

## **TABLE OF CONTENTS**

<b>Sl No</b>	<b>Description</b>	<b>Page No</b>
1	INTRODUCTION	6
2	DESIGN	9
3	IMPLEMENTATION & SNAPSHOT	13
4	CONNECTION WITH PHP MYADMIN	28
5	QUERIES RELATED SNAPSHOTS	35
6	CONCLUSION	40

# **CHAPTER 1**

# **INTRODUCTION**

# **INTRODUCTION**

## **1.1 Introduction to DBMS**

A database is simply an organized collection of related data, typically stored on disk, and accessible by many concurrent users, it is a logically coherent collection of data with some inherent meaning, representing some aspect of real world and which is designed, built and populated with data for a specific purpose.

Databases are managed by a Database Management System(DBMS) which is a collection of programs that enables user to create and maintain a database.

Advantages of DBMS:

- Redundancy is controlled.
- Unauthorized access is restricted.
- Providing multiple user interfaces.
- Enforcing integrity constraints.
- Providing backup and recovery.

## **1.2 Introduction to SQL**

Structured Query Language (SQL), is a language used to request data from a database which includes database creation, deletion, retrieval of required tables and even manipulation of data held in a relational database management system.

SQL is considered as a Non-Procedural or a High level language in which the expected result or operation is given without the specific details about how to accomplish the task. So, SQL is a declarative language.

Therefore, SQL is designed at a higher conceptual level of operation than procedural languages as procedural languages includes only the information about opening and closing tables, loading and searching indexes, or flushing buffers and writing data to file systems, but the lower level logical and physical operations are not specified in SQL.

## **1.3 Introduction to Apartment Management Database**

An apartment is a residential building, consisting of many units. Each unit is owned by the apartment owner, who leases it out to tenants.

The “Apartment Database” is a database that has information about each tenant and his respective apartment. It manages booking, expenses calculation and rent collection through a simple interface.

## **1.4 Scope and importance of work**

The scope of the project is to create a webpage than enables users to overcome the drawbacks of traditional record keeping systems.

The database stores details about the tenant – name, phone number and dependents.

The apartment leased to the tenant is also recorded, along with the type of apartment and the respective block. Apartments have expenses such maintenance charges, repair charges and security charges, which are stored in the database for easy access. Rent due for each month is set by the owner.

# **CHAPTER 2**

# **DESIGN**

## Theory of ER Diagram

The Entity–Relationship model (ER model) describes the structure of a database with the help of a diagram, which is known as Entity Relationship Diagram (ER Diagram). An Entity Relationship Diagram (ERD) shows the relationships of entity sets stored in a database. An entity in this context is an object, a component of data. An entity set is a collection of similar entities. These entities can have attributes that define its properties. By defining the entities, their attributes, and showing the relationships between them, an ER diagram illustrates the logical structure of database. ER diagrams are used to sketch out the design of a database.

### ENTITIES

An entity is an ‘object’ in the real world with an independent existence and an entity type defines a collection (or set) of entities that have the same attributes. Each entity type in the database is described by its name and attributes. An entity type is represented in ER diagrams as a rectangular box enclosing the entity type name.

### RELATIONSHIPS

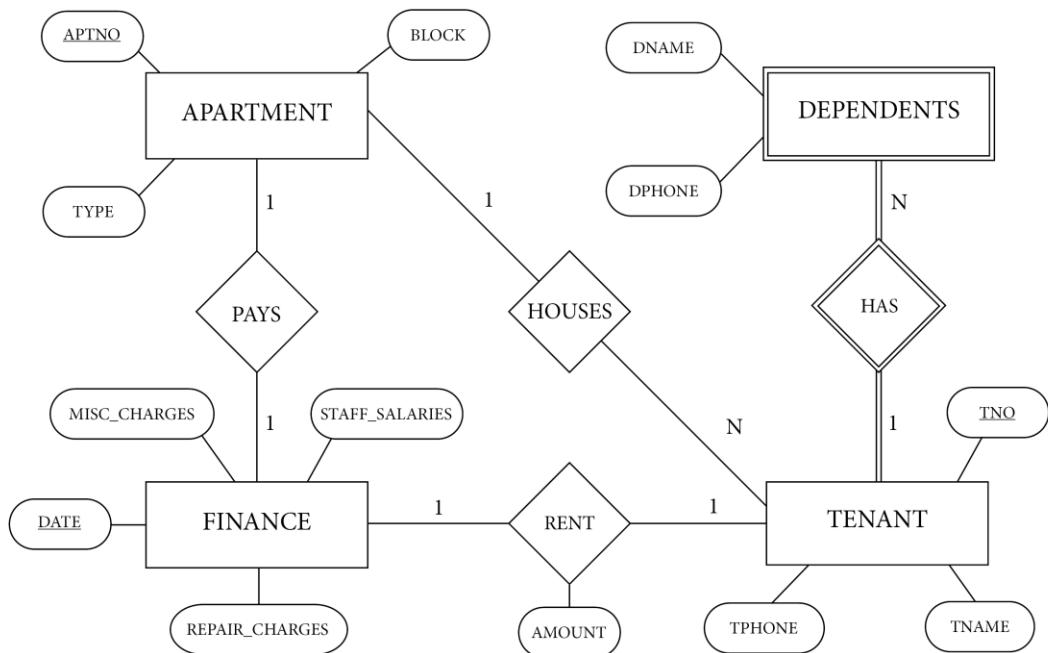
A relationship among two or more entities represents an association among the entities and whenever an attribute of one entity refers to another entity, there exists a relationship between the two entities.

In a relationship, a foreign key of one table refers the primary key of the other table and it is represented by diamond shape in ER diagram.

### ATTRIBUTES

An attribute represents some property of interest that further describes an entity and the column header of the table shows the attributes. Each attribute in a table has a certain domain which allows it to accept a certain ‘set of values’ only. The attribute values, of each entity, will define its characteristics in the table and is represented by oval in the ER diagram.

## ENTITY RELATIONSHIP DIAGRAM



## SCHEMA DIAGRAM

### LIST OF TABLES

#### APARTMENTS:

- APTN
- TYPE
- BLOCK

#### TENANT :

- TNO
- TNAME
- TPHONE
- APTN

**DEPENDENTS :**

- TNO
- DNAME
- DPHONE

**RENT :**

- DATE
- TNO
- AMOUNT

**FINANCE :**

- DATE
- REPAIR\_CHARGES
- STAFF\_SALARIES
- MISC\_CHARGES
- APTNO

# **CHAPTER 3**

## **IMPLEMENTATION & SNAPSHOT**

## **CREATION:**

- 1 CREATE TABLE tenant (TNO INTEGER(5) PRIMARY KEY, TNAME VARCHAR(40), TPHONE INTEGER(10));
- 2 CREATE TABLE apartment (APTNO INTEGER(4) PRIMARY KEY, TNO INTEGER(5), FOREIGN KEY(TNO) REFERENCES TENANT(TNO) ON DELETE CASCADE, TYPE VARCHAR(20), BLOCK INTEGER(2));
- 3 CREATE TABLE dependent (TNO INTEGER(5), FOREIGN KEY(TNO) REFERENCES TENANT(TNO) ON DELETE CASCADE, DNAME VARCHAR(20), DPHONE INTEGER(10));
- 4 CREATE TABLE finance (DATE DATE PRIMARY KEY, REPAIR\_CHARGES INTEGER(11), STAFF\_SALARIES INTEGER(11), MISC\_CHARGES INTEGER(11), APTNO INTEGER(5), FOREIGN KEY(TNO) REFERENCES APRTMENT(APTNO) ON DELETE CASCADE);
- 5 CREATE TABLE rent (DATE DATE, FOREIGN KEY(DATE) REFERENCES FINANCE(TNO) ON DELETE CASCADE, TNO INTEGER(5), FOREIGN KEY(TNO) REFERENCES TENANT(TNO) ON DELETE CASCADE);

## **INSERTION:**

```
INSERT INTO apartment(`APTNO`, `TNO`, `TYPE`, `BLOCK`) VALUES  
(1001, 1, '9 bhk', 9),  
(1002, 2, '2BHK', 1),  
(1003, 3, '3BHK', 3),  
(1051, 5, '2 BHK', 2),  
(1078, 4, '4BHK', 1);
```

```
INSERT INTO dependent(`TNO`, `DNAME`, `DPHONE`) VALUES  
(1, 'harsh soni', 2147483647),
```

```
(2, 'M SUMESH', 2147483647),  
(3, 'R NAMBIAR', 70787889),  
(4, 'DHIRU M', 860394489),  
(5, 'M SINGH', 60987867);
```

```
INSERT INTO finance (`DATE`, `REPAIR_CHARGES`,  
`STAFF_SALARIES`, `MISC_CHARGES`, `APTNO`) VALUES  
('0000-00-00', 340, 120, 250, 1002),  
('2021-01-12', 1200, 500, 270, 1001),  
('2022-01-27', 1208, 1201, 1110, 1003),  
('2022-01-29', 1500, 1234, 1000, 1078),  
('2022-01-31', 1000, 1110, 1200, 1051);
```

```
INSERT INTO rent (`DATE`, `TNO`, `AMOUNT`) VALUES  
('2021-01-12', 1, 20000),  
('0000-00-00', 2, 23000),  
('2022-01-27', 3, 25000),  
('2022-01-29', 4, 35000),  
('2022-01-31', 5, 20000);
```

```
INSERT INTO tenant (`TNO`, `TNAME`, `TPHONE`) VALUES  
(1, 'poorvi soni', 898765544),  
(2, 'Ajin Sumesh', 2147483647),  
(3, 'ADITYA KRISHNAN', 787971756),  
(4, 'VINAY M', 89876574),  
(5, 'BHUPINDER SINGH', 98887665);
```

localhost / 127.0.0.1 / apt\_mgmt | Apartment Management System | Apartment Management System | +

localhost/phpmyadmin/index.php?route=table/structure&server=1&db=apt\_mgmt&table=tenant

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	TNO	int(5)	utf8mb4_general_ci	No	None				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	TNAME	varchar(40)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	TPHONE	int(10)		Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Spatial](#) [Fulltext](#)

[Print](#) [Propose table structure](#) [Move columns](#) [Normalize](#)

Add 1 column(s) after TPHONE [Go](#)

**Indexes**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	TNO	5	A	No	

Create an index on 1 columns [Go](#)

**Partitions**

No partitioning defined!

**Partition table**

**Information**

Data	16.0 KIB	Format	dynamic
Index	0 B	Collation	utf8mb4_general_ci
Overhead	8.0 MIB	Next autoindex	0
Effective	-8,372,224 B	Creation	Jan 07, 2022 at 03:34 PM
Total	16.0 KIB	Last update	Jan 28, 2022 at 10:15 PM
<a href="#">Optimize table</a>		Last check	Jan 28, 2022 at 05:54 PM
Space usage			Row statistics

[Console](#)

localhost / 127.0.0.1 / apt\_mgmt | Apartment Management System | Apartment Management System | +

localhost/phpmyadmin/index.php?route=table/structure&server=1&db=apt\_mgmt&table=apartment

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	APTNO	int(4)	utf8mb4_general_ci	No	None				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	TNO	int(5)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	TYPE	varchar(20)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	BLOCK	int(2)		Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Spatial](#) [Fulltext](#)

[Print](#) [Propose table structure](#) [Move columns](#) [Normalize](#)

Add 1 column(s) after BLOCK [Go](#)

**Indexes**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	APTNO	5	A	No	
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	TNO	BTREE	No	No	TNO	5	A	Yes	

Create an index on 1 columns [Go](#)

**Partitions**

No partitioning defined!

**Partition table**

**Information**

Data	16.0 KIB	Format	dynamic
Index	16.0 KIB	Collation	utf8mb4_general_ci
Overhead	0 B	Next autoindex	0
Effective	32.0 KIB	Creation	Jan 07, 2022 at 03:34 PM
Total	32.0 KIB	Last update	Jan 28, 2022 at 10:15 PM
<a href="#">Optimize table</a>		Last check	Jan 28, 2022 at 05:54 PM
Space usage			Row statistics

[Console](#)

Screenshot of phpMyAdmin interface showing the structure of the 'dependent' table in the 'apt\_mgmt' database.

**Table Structure:**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	TNO	int(5)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	DNAME	varchar(40)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</a>
3	DPHONE	int(10)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

**Indexes:**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	TNO	BTREE	No		TNO	5	A	Yes	

**Information:**

Data	16.0 KB	Format	dynamic
Index	16.0 KB	Collation	utf8mb4_general_ci
Overhead	0 B	Next autoindex	0
Effective	32.0 KB	Creation	Jan 07, 2022 at 03:34 PM
Total	32.0 KB	Last update	Jan 28, 2022 at 10:15 PM
<a href="#">Optimize table</a>		Last check	Jan 28, 2022 at 05:55 PM
Space usage			
Row statistics			

Screenshot of phpMyAdmin interface showing the structure of the 'finance' table in the 'apt\_mgmt' database.

**Table Structure:**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	DATE	date	utf8mb4_general_ci	No	None				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	REPAIR_CHARGES	int(11)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	STAFF_SALARIES	int(11)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	MISC_CHARGES	int(11)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	APTNNO	int(4)	utf8mb4_general_ci	Yes	NULL				<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

**Indexes:**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	DATE	5	A	No	
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	APTNNO	BTREE	No	No	APTNNO	5	A	Yes	

**Information:**

Data	16.0 KB	Format	dynamic
Index	16.0 KB	Collation	utf8mb4_general_ci
Overhead	0 B	Next autoindex	0
Effective	32.0 KB	Creation	Jan 07, 2022 at 03:34 PM
Total	32.0 KB	Last update	Jan 28, 2022 at 10:16 PM
<a href="#">Optimize table</a>		Last check	Jan 28, 2022 at 05:55 PM
Space usage			
Row statistics			

localhost / 127.0.0.1 / apt\_mgmt | Apartment Management System | Apartment Management System | +

localhost/phpmyadmin/index.php?route=/table/structure&server=1&db=apt\_mgmt&table=rent

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	DATE	date	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	TNO	int(5)	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	AMOUNT	int(11)	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Index</a> <a href="#">Unique</a> <a href="#">Spatial</a> <a href="#">Fulltext</a>

[Print](#) [Propose table structure](#) [Move columns](#) [Normalize](#)

[Add](#) 1 column(s) after AMOUNT [Go](#)

**Indexes**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	DATE	BTREE	No	No	DATE	5	A	Yes	
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	TNO	BTREE	No	No	TNO	5	A	Yes	

Create an index on 1 columns [Go](#)

**Partitions**

No partitioning defined

**Partition table**

**Information**

Data	16.0 KB	Format	dynamic
Index	32.0 KB	Collation	utf8mb4_general_ci
Overhead	0 B		
Effective	48.0 KB	Creation	Jan 07, 2022 at 03:34 PM
Total	48.0 KB	Last update	Jan 28, 2022 at 10:16 PM
<a href="#">Optimize table</a>			
Last check: Jan 28, 2022 at 05:56 PM			
Space usage			
Row statistics			

[Console](#)

localhost / 127.0.0.1 / apt\_mgmt | Apartment Management System | Apartment Management System | +

localhost/phpmyadmin/index.php?route=/table/structure&server=1&db=apt\_mgmt&table=contact\_us

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Name	text	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	Email	varchar(30)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	Subject	varchar(30)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	Message	varchar(200)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

[Print](#) [Propose table structure](#) [Move columns](#) [Normalize](#)

[Add](#) 1 column(s) after Message [Go](#)

**Indexes**

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	Email	0	A	No	

Create an index on 1 columns [Go](#)

**Partitions**

No partitioning defined

**Partition table**

**Information**

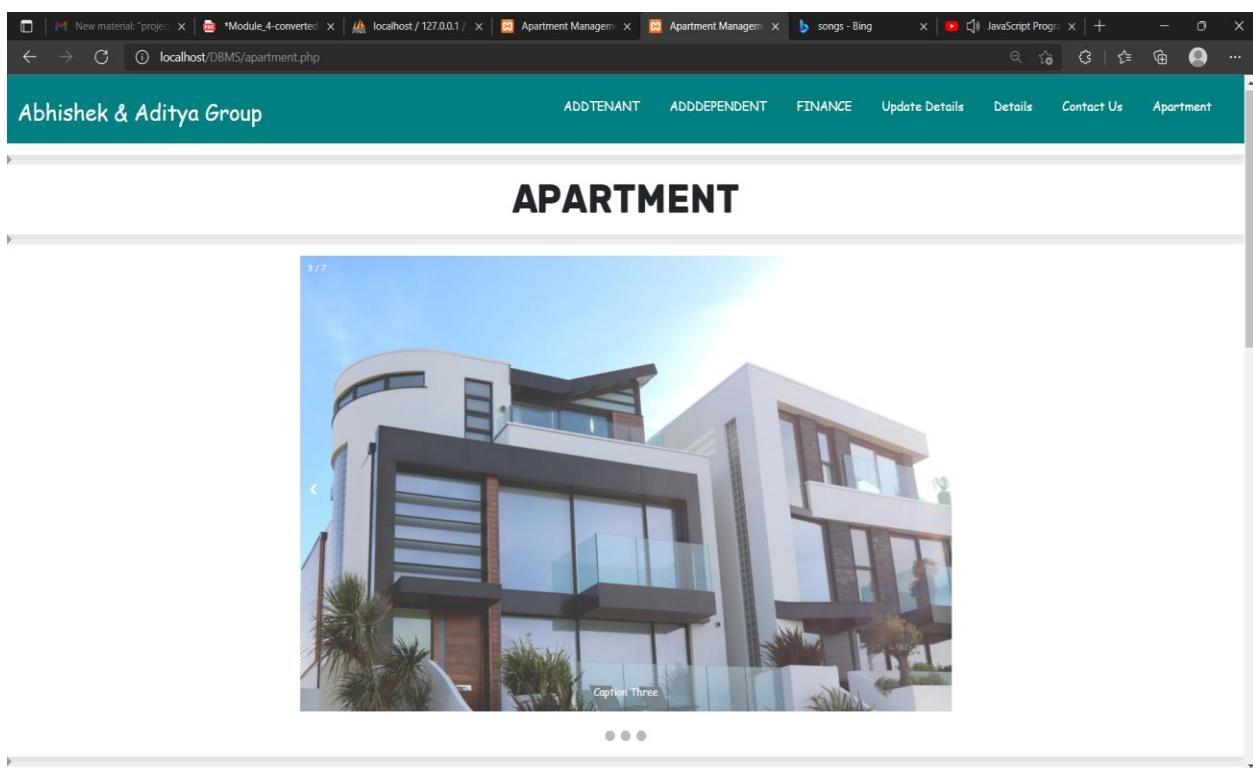
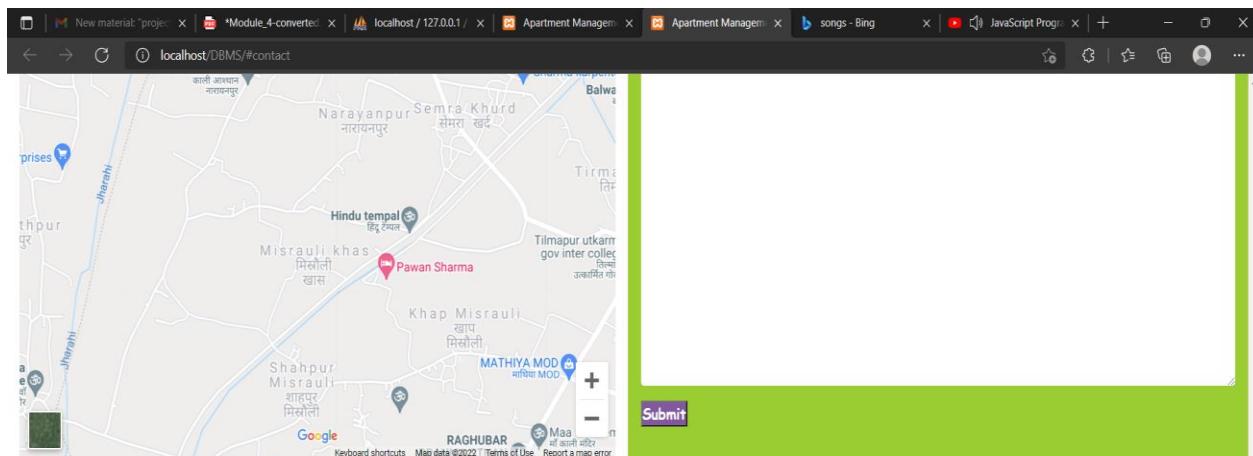
Data	16.0 KB	Format	dynamic
Index	0 B	Collation	utf8mb4_general_ci
Overhead	0 B		
Effective	16.0 KB	Creation	Jan 08, 2022 at 01:35 PM
Total	16.0 KB	Last update	Jan 28, 2022 at 05:56 PM
<a href="#">Optimize table</a>			
Last check: Jan 28, 2022 at 05:56 PM			
Space usage			
Row statistics			

[Console](#)

# HOME PAGE

The screenshot shows a web browser window with multiple tabs open. The main content area displays a large grid of apartment photographs. The top navigation bar includes links for 'ADD TENANT', 'ADD DEPENDENT', 'FINANCE', 'Update Details', 'Details', 'Contact Us', and 'Apartment'.

The screenshot shows a web browser window with multiple tabs open. The main content area features a 'Contact Us' heading. To the left is a map of Khalwa, Bihar, showing various landmarks and locations. To the right is a green-themed contact form with fields for 'Name', 'Email', 'Subject', and 'Message'.



# ADD TENANT

The screenshot shows a web browser window with a teal header bar. The header contains the text "Abhishek & Aditya Group" on the left and navigation links "ADDTENANT", "ADDEPENDENT", "FINANCE", "Update Details", "Details", "Contact Us", and "Apartment" on the right. Below the header, the main content area has a title "Add New Tenant" and a sub-section titled "Enter New Tenant Details". The form fields are filled with the following data:

Name	RAMKUWAR SINGH
Apartment Number	1006
Phone	8603944898
Type	3BHK
Block	3

A "Submit" button is located at the bottom of the form. Below the form, there is a "Contact Us" section.

**DATA INSERTED SUCCESSFULLY**

The screenshot shows a web browser window with a teal header bar. The header contains the text "Abhishek & Aditya Group" on the left and navigation links "ADDTENANT", "ADDEPENDENT", "FINANCE", "Update Details", "Details", "Contact Us", and "Apartment" on the right. Below the header, the main content area has a title "Add New Tenant" and a sub-section titled "Enter New Tenant Details". All the form fields are currently empty, showing placeholder text such as "Enter the Tenant Name", "Enter The Apartment Number", "Enter The Phone Number", "Enter The Type", and "Enter The Block". A "Submit" button is located at the bottom of the form. Below the form, there is a "Contact Us" section.

Screenshot of phpMyAdmin showing the tenant table in the apt\_mgmt database.

**Table: tenant**

Structure:

```

CREATE TABLE `tenant` (
  `TNO` int(11) NOT NULL,
  `TNAME` varchar(50) NOT NULL,
  `TPHONE` varchar(15) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

Data:

TNO	TNAME	TPHONE
1	poonil soni	898765544
2	Ajin Sumesh	2147483647
3	arun kumar n	87676543
4	RAMKUWAR SINGH	2147483647

Screenshot of phpMyAdmin showing the apartment table in the apt\_mgmt database.

**Table: apartment**

Structure:

```

CREATE TABLE `apartment` (
  `APTNO` int(11) NOT NULL,
  `TNO` int(11) NOT NULL,
  `TYPE` varchar(50) NOT NULL,
  `BLOCK` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

Data:

APTNO	TNO	TYPE	BLOCK
4	3	3bhk	2
1001	1	9 bhk	9
1002	2	2BHk	1
1006	4	3BHK	3

# ADD DEPENDENT

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'localhost/DBMS/adddependent.php'. The page has a teal header with the text 'Abhishek & Aditya Group' and navigation links for ADDTENANT, ADDDEPENDENT, FINANCE, Update Details, Details, Contact Us, and Apartment. Below the header is a section titled 'Add Dependent' with a sub-section titled 'Enter Dependent Details'. This section contains three input fields: 'Tenant Number' (value: 4), 'Dependent Name' (value: SAHDEO SINGH), and 'Dependent Phone Number' (value: 78767574732). A 'Submit' button is at the bottom. To the right of this form is a 'Contact Us' section featuring a map and a green 'Let us know' button.

DATA INSERTED SUCCESSFULLY

The screenshot shows the same web browser window after the data has been inserted. The header now displays 'Data Inserted Successfully'. The rest of the page structure remains the same, including the 'Add Dependent' form, 'Contact Us' section, and the green 'Let us know' button.

phpMyAdmin

Database: apt\_mgmt > Table: dependent

Showing rows 0 - 2 (3 total). Query took 0.0005 seconds.

SELECT \* FROM `dependent`

TNO	DNAME	DPHONE
1	harsh soni	2147483647
2	M SUMESH	2147483647
4	SAHdeo SINGH	2147483647

## ADD FINANCE

Abhishek & Aditya Group

ADDTENANT ADDDEPENDENT FINANCE Update Details Details Contact Us Apartment

### Update Finance

Tenant Number: 4

Apartment Number: 1006

Staff Salary: 1201

Miscellaneous Charges: 1501

Repair Charges: 1250

Rent: 30000

Date (YYYY-MM-DD): 2022-01-24

**Submit**

# DATA INSERTED SUCCESSFULLY

The screenshot shows a web browser window with multiple tabs open. The active tab displays a success message: "Data Inserted Successfully". Below this, there is a navigation bar with links: ADDTENANT, ADDDEPENDENT, FINANCE, Update Details, Details, Contact Us, and Apartment. The main content area is titled "Update Finance" and contains several input fields for entering financial data:

- Tenant Number: Enter the Tenant Name
- Apartment Number: Enter The Apartment Number
- Staff Salary: Enter The Phone Number
- Miscellaneous Charges: Enter The Type
- Repair Charges: Enter The Block
- Rent: Enter The Rent
- Date (YYYY-MM-DD): Enter The Date(YYYY-MM-DD)

The screenshot shows the phpMyAdmin interface connected to a MySQL database named "apt\_mgmt". The left sidebar shows the database structure with tables like "New", "admin", "apartment", "contact\_us", "dependent", "finance", "rent", and "tenant". The right panel displays the "rent" table with the following data:

DATE	TNO	AMOUNT
2021-01-12	1	20000
2020-09-00	2	23000
2022-01-24	4	30000

## TENANT DETAILS

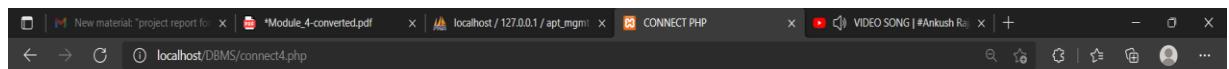
**Tenant Details**

Enter the Tenant Number  
Tenant Number: 4  
Submit

**Delete tenant**

Enter the Tenant Number  
Enter The Tenant Number  
Submit

**Contact Us**



TENANT NUMBER	TENANT NAME	TENANT PHONE
4	RAMKUWAR SINGH	2147483647

APARTMENT NUMBER	APARTMENT TYPE	APARTMENT BLOCK
1006	3BHK	3

DEPENDENT NAME	DEPENDENT PHONE
SAHDEO SINGH	2147483647

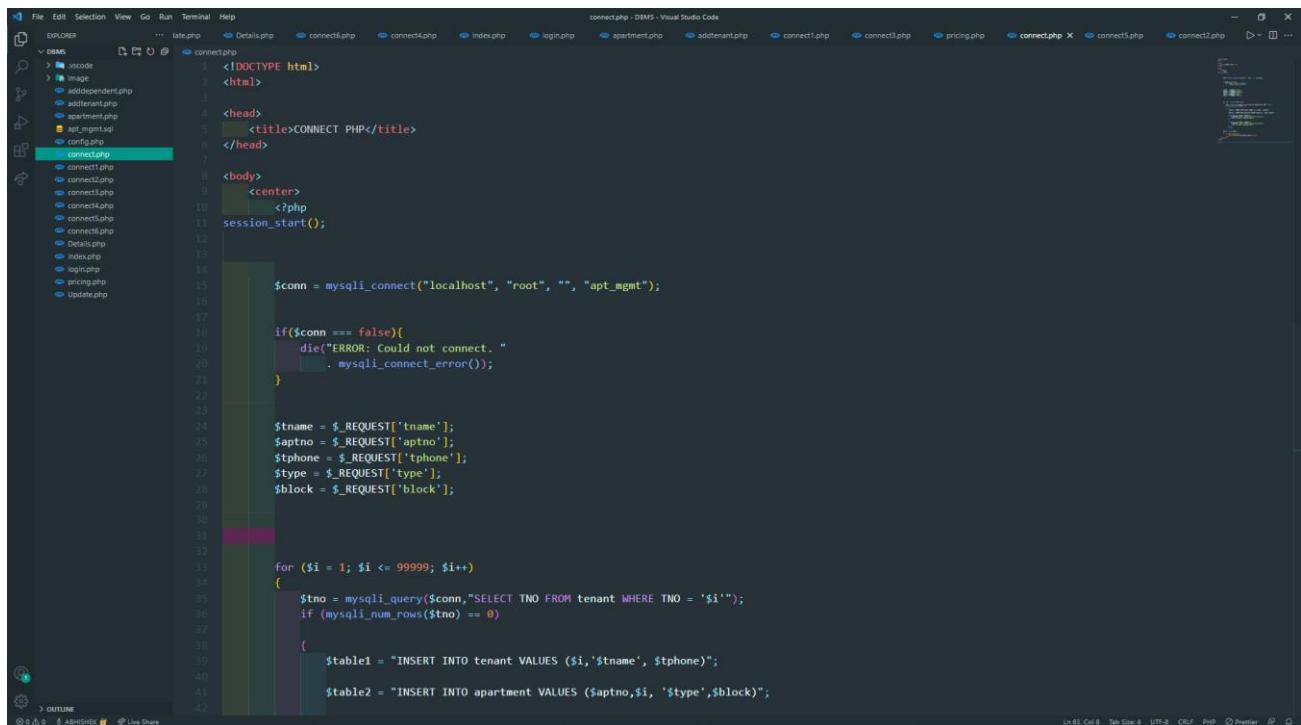
PAYMENT DATE	TOTAL AMOUNT
2022-01-24	30000

ADMIN

# **CHAPTER 4**

## **CONNECTION WITH PHP**

## **MYADMIN**



```
<!DOCTYPE html>
<html>
<head>
<title>CONNECT PHP</title>
</head>
<body>
<center>
<?php
session_start();

$conn = mysqli_connect("localhost", "root", "", "apt_mgmt");

if($conn === false){
die("ERROR: Could not connect. "
. mysqli_connect_error());
}

$tno = $_REQUEST['tname'];
$aptno = $_REQUEST['aptno'];
$tphone = $_REQUEST['tphone'];
$type = $_REQUEST['type'];
$block = $_REQUEST['block'];

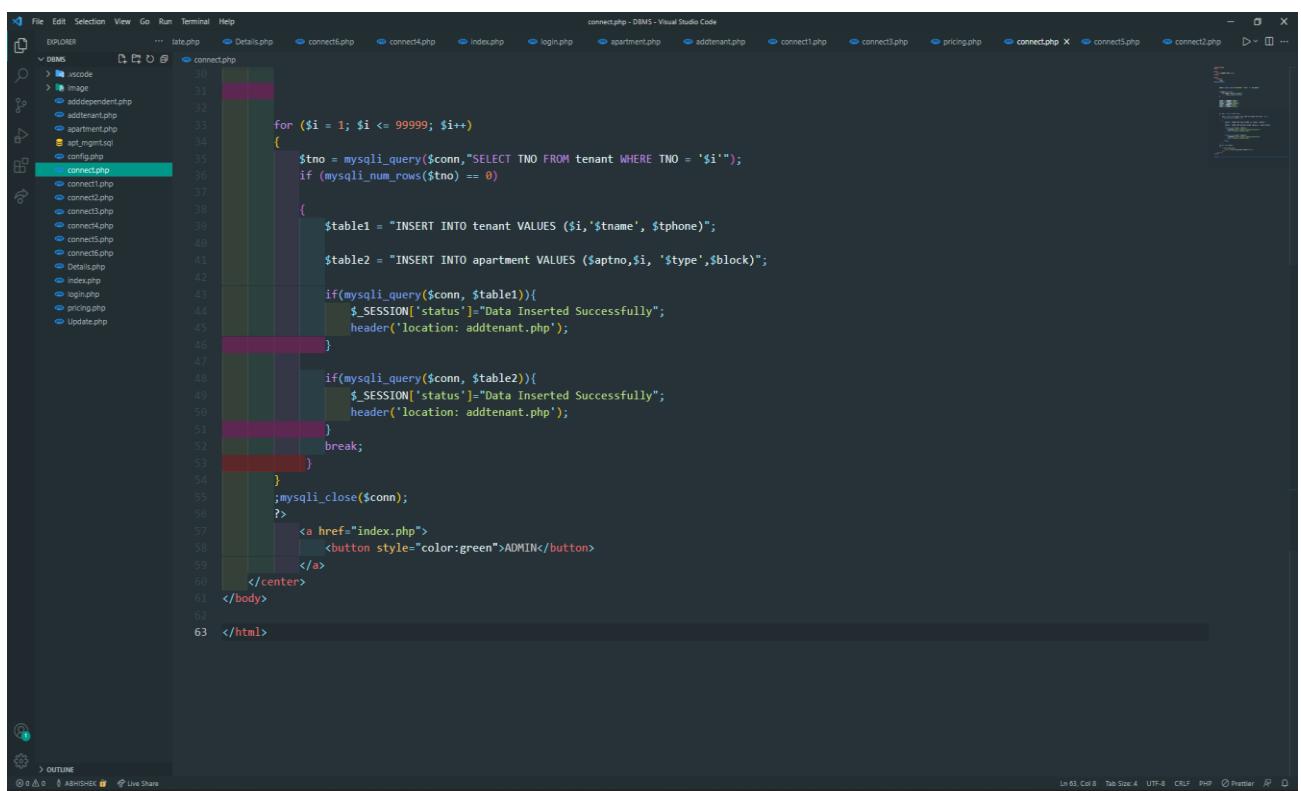
for ($i = 1; $i <= 99999; $i++)
{
    $tno = mysqli_query($conn,"SELECT TNO FROM tenant WHERE TNO = '$i'");
    if (mysqli_num_rows($tno) == 0)

    {
        $table1 = "INSERT INTO tenant VALUES ($i,$tname, $tphone)";

        $table2 = "INSERT INTO apartment VALUES ($aptno,$i, '$type',$block)";

        if(mysqli_query($conn, $table1)){
            $_SESSION['status']="Data Inserted Successfully";
            header('location: addtenant.php');
        }

        if(mysqli_query($conn, $table2)){
            $_SESSION['status']="Data Inserted Successfully";
            header('location: addtenant.php');
        }
        break;
    }
}
;mysqli_close($conn);
?>
<a href="index.php">
<button style="color:green">ADMIN</button>
</a>
</center>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>CONNECT PHP</title>
</head>
<body>
<center>
<?php
session_start();

for ($i = 1; $i <= 99999; $i++)
{
    $tno = mysqli_query($conn,"SELECT TNO FROM tenant WHERE TNO = '$i'");
    if (mysqli_num_rows($tno) == 0)

    {
        $table1 = "INSERT INTO tenant VALUES ($i,$tname, $tphone)";

        $table2 = "INSERT INTO apartment VALUES ($aptno,$i, '$type',$block)";

        if(mysqli_query($conn, $table1)){
            $_SESSION['status']="Data Inserted Successfully";
            header('location: addtenant.php');
        }

        if(mysqli_query($conn, $table2)){
            $_SESSION['status']="Data Inserted Successfully";
            header('location: addtenant.php');
        }
        break;
    }
}
;mysqli_close($conn);
?>
<a href="index.php">
<button style="color:green">ADMIN</button>
</a>
</center>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>CONNECT PHP</title>
</head>
<body>
    <center>
        <?php
        session_start();
        $conn = mysqli_connect("localhost", "root", "", "apt_mgmt");
        if($conn === false){
            die("ERROR: Could not connect. " . mysqli_connect_error());
        }
        $tno = $_REQUEST['tno'];
        $dname = $_REQUEST['dname'];
        $dphone = $_REQUEST['dphone'];
        $table1 = "INSERT INTO dependent VALUES ($tno, '$dname', '$dphone')";

        if(mysqli_query($conn, $table1)){
            $_SESSION['status']="Data Inserted Successfully";
            header('location: adddependent.php');
        } else{
            echo "ERROR: Hush! Sorry $sql. " . mysqli_error($conn);
        }
        ;mysqli_close($conn);?>
        <a href="index.php">
            <button style="color:black; background-color:red;">ADMIN</button>
        </a>
    </center>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>CONNECT PHP</title>
</head>
<body>
    <center>
        <?php
        session_start();
        $conn = mysqli_connect("localhost", "root", "", "apt_mgmt");

        if($conn === false){
            die("ERROR: Could not connect. " . mysqli_connect_error());
        }

        $tno = $_REQUEST['tno'];
        $aptno = $_REQUEST['aptno'];
        $staff_sal = $_REQUEST['staff_sal'];

        $misc_charges = $_REQUEST['misc_charges'];
        $repaircharges = $_REQUEST['repaircharges'];
        $rent = $_REQUEST['rent'];
        $date = $_REQUEST['date'];

        $table1 = "INSERT INTO finance VALUES ('$date', $repaircharges, $staff_sal, $misc_charges, $aptno)";

        $table2 = "INSERT INTO rent VALUES ('$date', $tno, $rent)";

        if(mysqli_query($conn, $table1)){
            $_SESSION['status']="Data Inserted Successfully";
            header('location: pricing.php');
        }

        if(mysqli_query($conn, $table2)){
            $_SESSION['status']="Data Inserted Successfully";
        }
    </center>
</body>
</html>
```

```

File Edit Selection View Go Run Terminal Help
File Explorer ... Date.php Details.php connect6.php connect4.php Index.php login.php apartment.php addtenant.php connect1.php connect3.php pricing.php connect5.php connect2.php X Dv D ...
connect2.php - DBMS - Visual Studio Code
$tno = $_REQUEST['tno'];
$aptno = $_REQUEST['aptno'];
$staff_sal = $_REQUEST['staff_sal'];

$misc_charges = $_REQUEST['misc_charges'];
$repaircharges = $_REQUEST['repaircharges'];
$rent = $_REQUEST['rent'];
$date = $_REQUEST['date'];



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \$table1 = "INSERT INTO finance VALUES ('\$date','\$repaircharges', \$staff_sal,\$misc_charges,\$aptno)";          \$table2 = "INSERT INTO rent VALUES ('\$date',\$tno,\$rent)";          if(mysqli_query(\$conn,\$table1)){             \$_SESSION['status']="Data Inserted Successfully";             header('location: pricing.php');         }          if(mysqli_query(\$conn,\$table2)){             \$_SESSION['status']="Data Inserted Successfully";             header('location: pricing.php');         }     }      ;mysqli_close(\$conn); ?> <a href="index.php">     <button style="color:black; background-color:red;">ADMIN</button> </a> </center> </body> </html> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|


```

```

File Edit Selection View Go Run Terminal Help
File Explorer ... Date.php Details.php connect6.php connect4.php X Index.php login.php apartment.php addtenant.php connect1.php connect3.php pricing.php connect5.php connect2.php Dv D ...
connect4.php - DBMS - Visual Studio Code
<!DOCTYPE html>
<html>
<head>
    <title>CONNECT PHP</title>
</head>
<body>
    <center>
        ?>
        session_start();
        $conn = mysqli_connect("localhost", "root", "", "apt_mgmt");

        if($conn === false){
            die("ERROR: Could not connect. " . mysqli_connect_error());
        }

        $tno = $_REQUEST['tno'];
        $result = mysqli_query($conn, "SELECT * FROM tenant where tno=$tno");
        while($row = mysqli_fetch_array($result)) {
            echo "<table border='1'>
                <tr>
                    <th>TENANT NUMBER</th>
                    <th>TENANT NAME</th>
                    <th>TENANT PHONE</th>
                </tr>";
            echo "<tr>";
            echo "<td>" . $row["TNO"] . "</td>";
            echo "<td>" . $row["TNAME"] . "</td>";
            echo "<td>" . $row["TPHONE"] . "</td>";
            echo "</tr>";
            echo "<br/>";echo "<br/>";
        }
        echo "</table>";
    
```

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a tree view of files under the "DBMS" folder, including "connect4.php" which is currently selected.
- Code Editor:** Displays the contents of "connect4.php". The code is a PHP script that queries a MySQL database to retrieve apartment and tenant information, then displays it in an HTML table. It also queries the database to get dependent names and phones, displaying them in another table.
- Output:** Shows the output of the current session, indicating "OUTLINE" mode.
- Bottom Status Bar:** Includes icons for file status (modified), a search bar, "ABHISHEK", "Live Share", and other system information like "Ln 120, Col 1", "Tab Stop: 4", "UTF-8", "CRLF", "Print", and "Pretty".

```
File Edit Selection View Go Run Terminal Help
DBMS - DBMS - Visual Studio Code
connect4.php - DBMS - Visual Studio Code

connect4.php
...
echo "<table>";
echo "<br/>";
...
}
$result = mysqli_query($conn,"SELECT APTNO,TYPE,BLOCK FROM apartment_tenant where tenant.tno=$tno and apartment.tno=tenant.tno");
while($row = mysqli_fetch_array($result))
{
    ...
    echo "<table border='2'>
        <tr>
            <th>APARTMENT NUMBER</th>
            <th>APARTMENT TYPE</th>
            <th>APARTMENT BLOCK</th>
        </tr>";
    echo "<tr>". $row['APTNODE'] . "</td>";
    echo "<td>". $row['TYPE'] . "</td>";
    echo "<td>". $row['BLOCK'] . "</td>";
    echo "</tr>";
    echo "<br/>";echo "<br/>";
    ...
    echo "<table>";
    echo "<br/>";
}
...
}
$result = mysqli_query($conn,"SELECT DNAME,DPHONE FROM dependent_tenant where tenant.tno=$tno and dependent.tno=tenant.tno");
while($row = mysqli_fetch_array($result))
{
    ...
    echo "<table border='3'>
        <tr>
            <th>DEPENDENT NAME</th>
            <th>DEPENDENT PHONE</th>
        </tr>";
    echo "<tr>". $row['DNAME'] . "</td>";
    echo "<td>". $row['DPHONE'] . "</td>";
    echo "</tr>";
}
}

outline
ABHISHEK Live Share
Ln 120, Col 1 Tab Stop: 4 UTF-8 CRLF Print Pretty R/ D
```

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure under "DBMS" with files like late.php, Details.php, connect4.php, Index.php, login.php, apartment.php, assistant.php, connect1.php, connect3.php, pricing.php, connect.php, connect5.php, and connect2.php.
- Code Editor:** The main editor area displays PHP code for generating HTML tables. The code uses echo statements to construct HTML structures, including tables and tr/td/th tags. It also includes database queries using mysqli\_query and mysqli\_fetch\_array.
- Status Bar:** Shows file paths (connect4.php - DBMS - Visual Studio Code), line numbers (Ln 120), column numbers (Col 1), tab size (Tab Size: 8), encoding (UTF-8), and other status indicators.

```
File Edit Selection View Go Run Terminal Help
... late.php Details.php connect4.php connect4.php X Index.php login.php apartment.php assistant.php connect1.php connect3.php pricing.php connect.php connect5.php connect2.php ...
DBMS
    > node
        > image
    > independent.php
    > addtenant.php
    > addtenant.php
    > apartment.php
    > acr_mngt.sql
    > config.php
    > connect.php
    > connect1.php
    > connect2.php
    > connect3.php
    > connect4.php
    > connect5.php
    > connect6.php
    > connect7.php
    > Details.php
    > login.php
    > pricing.php
    > Update.php

connect4.php - DBMS - Visual Studio Code
...
107     echo "<table border='3'>
108         <tr>
109             <th>DEPENDENT NAME</th>
110             <th>DEPENDENT PHONE</th>
111         </tr>
112
113         echo "<tr>";
114         echo "<td>" . $row['DNAME'] . "</td>";
115         echo "<td>" . $row['DPHONE'] . "</td>";
116         echo "</tr>";
117         echo "<br/>" . echo "<br/>";
118
119         echo "</table>";
120         echo "<br/>";
121
122     }
123
124     $result = mysqli_query($conn, "SELECT DATE,AMOUNT FROM rent,tenant where tenant.tno=$tno and rent.tno=tenant.tno");
125
126     while($row = mysqli_fetch_array($result))
127     {
128
129         echo "<table border='4'>
130             <tr>
131                 <th>PAYMENT DATE</th>
132                 <th>TOTAL AMOUNT</th>
133             </tr>
134
135             echo "<tr>";
136             echo "<td>" . $row['DATE'] . "</td>";
137             echo "<td>" . $row['AMOUNT'] . "</td>";
138             echo "</tr>";
139             echo "<br/>" . echo "<br/>";
140
141             echo "</table>";
142             echo "<br/>" . echo "<br/>";
143
144     }
145
146 }
```

```
<!DOCTYPE html>
<html>
<head>
<title>CONNECT PHP</title>
</head>
<body>
<center>
<?php
session_start();

$conn = mysqli_connect("localhost", "root", "", "apt_mgmt");

if($conn === false){
die("ERROR: Could not connect.
. mysqli_connect_error());
}

$tname = $_REQUEST['tname'];
$aptno=$_REQUEST['aptno'];
$tmo = $_REQUEST['tmo'];
$tphone = $_REQUEST['tphone'];
$type = $_REQUEST['type'];
$block = $_REQUEST['block'];
$dname = $_REQUEST['dname'];
$dphone = $_REQUEST['dphone'];

$table1="update tenant set TNAME = '$tname' where TNO = '$tmo'";


```
if(mysqli_query($conn, $table1)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

if(mysqli_query($conn, $table2)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

if(mysqli_query($conn, $table3)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

if(mysqli_query($conn, $table4)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

if(mysqli_query($conn, $table5)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

if(mysqli_query($conn, $table6)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

}

;mysqli_close($conn);
?>
```


```

```
<!DOCTYPE html>
<html>
<head>
<title>CONNECT PHP</title>
</head>
<body>
<center>
<?php
session_start();

$conn = mysqli_connect("localhost", "root", "", "apt_mgmt");

if($conn === false){
    die("ERROR: Could not connect. " .
        . mysqli_connect_error());
}

$tno = $_REQUEST['tno'];
$result1 = "DELETE FROM tenant
            where TNO = '$tno'";
$result2 = "DELETE FROM apartment
            where TNO = '$tno'";
$result3 = "DELETE FROM rent
            where TNO = '$tno'";
$result4="DELETE FROM dependent
            where TNO = '$tno'";

if(mysqli_query($conn, $result1)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

if(mysqli_query($conn, $result2)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

if(mysqli_query($conn, $result3)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

if(mysqli_query($conn, $result4)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

mysql_close($conn);>
<a href="Details.php">
    <button style="color:black; background-color:red;">ADMIN</button>
</a>
</center>
</body>
</html>
```

```
$tno = $_REQUEST['tno'];
$result1 = "DELETE FROM tenant
            where TNO = '$tno'";
$result2 = "DELETE FROM apartment
            where TNO = '$tno'";
$result3 = "DELETE FROM rent
            where TNO = '$tno'";
$result4="DELETE FROM dependent
            where TNO = '$tno'";

if(mysqli_query($conn, $result1)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

if(mysqli_query($conn, $result2)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

if(mysqli_query($conn, $result3)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

if(mysqli_query($conn, $result4)){
    $_SESSION['status']="Data Deleted Successfully";
    header('location: Details.php');
}

mysql_close($conn);>
<a href="Details.php">
    <button style="color:black; background-color:red;">ADMIN</button>
</a>
</center>
</body>
</html>
```

# **CHAPTER 5**

## **QUERIES RELATED SNAPSHOTS**

# UPDATE FINANCE

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Update Tenant". The page displays a form titled "Update Tenant Details" with the following fields and their values:

Field	Value
Name	ABHISHEK KUMAR
Tenant Number	4
Apartment Number	1006
Phone	89867665
Type	6BHK
Block	6
Dependent Name	RAMKUWAR SINGH
Dependent Phone Number	91999038

A "Submit" button is located at the bottom of the form.

Contact Us

DATA UPDATED SUCCESSFULLY

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Update Tenant". The page displays a form titled "Update Tenant Details" with all fields empty or placeholder text:

Field	Value
Name	Enter the Tenant Name
Tenant Number	Enter The Tenant Number
Apartment Number	Enter The Apartment Number
Phone	Enter The Phone Number
Type	Enter The Type
Block	Enter The Block
Dependent Name	Enter The Dependent Name
Dependent Phone Number	Enter The Dependent Phone Number

Screenshot of phpMyAdmin showing the 'tenant' table in the 'apt\_mgmt' database.

**Table: tenant**

Showing rows 0 - 3 (4 total). Query took 0.0004 seconds.

SELECT \* FROM `tenant`

+ Options + T -> ▾ TNO TNAME TPHONE

	TNO	TNAME	TPHONE			
<input type="checkbox"/>	Edit	Copy	Delete	1	poorni soni	98765544
<input type="checkbox"/>	Edit	Copy	Delete	2	Ajin Sumesh	2147483647
<input type="checkbox"/>	Edit	Copy	Delete	3	arun kumar n	87676543
<input type="checkbox"/>	Edit	Copy	Delete	4	ABHISHEK KUMAR	89867665

With selected:  Check all  With selected:  Edit  Copy  Delete  Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations:  Print  Copy to clipboard  Export  Display chart  Create view

Screenshot of phpMyAdmin showing the 'apartment' table in the 'apt\_mgmt' database.

**Table: apartment**

Showing rows 0 - 3 (4 total). Query took 0.0004 seconds.

SELECT \* FROM `apartment`

+ Options + T -> ▾ APPTNO TNO TYPE BLOCK

	APPTNO	TNO	TYPE	BLOCK			
<input type="checkbox"/>	Edit	Copy	Delete	4	3	3bhk	2
<input type="checkbox"/>	Edit	Copy	Delete	1001	1	9 bhk	9
<input type="checkbox"/>	Edit	Copy	Delete	1002	2	2BHK	1
<input type="checkbox"/>	Edit	Copy	Delete	1006	4	6BHK	6

With selected:  Check all  With selected:  Edit  Copy  Delete  Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations:  Print  Copy to clipboard  Export  Display chart  Create view

The screenshot shows the phpMyAdmin interface connected to the 'apt\_mgmt' database. The 'dependent' table is selected, displaying the following data:

TNO	DNAME	DPHONE
1	harsh soni	2147483647
2	M SUMESH	2147483647
4	RAMKUWAR SINGH	91999038

## DELETE TENANT

The screenshot shows a web page titled "Delete tenant". A prominent input field asks "Enter the Tenant Number" with the value "4" entered. Below the input field is a "Submit" button.

Below the input field, there is a section titled "Contact Us" which includes a map of a local area and a green sidebar for user feedback.

**Contact Us**

**Creativeabhi13**  
26.305439,84.187254 ABHISHEK KUMAR S/O RAMKUWAR SINGH & BINOD KUMARI VILL-BHAIGWANPUR, POST: Sharur, Bihar 841243  
4.6 ⭐⭐⭐⭐⭐ 19 reviews  
[View larger map](#)

**Let us know**

Name:

Email:

Subject:

# DATA DELETED SUCCESSFULLY

The screenshot shows a web browser with three tabs open:

- New material "project report fo...": A PDF file.
- \*Module 4-converted.pdf: Another PDF file.
- localhost / 127.0.0.1 / apt\_mgmt: The main application tab.

The application interface includes a header with the Abhishek & Aditya Group logo and navigation links: ADDTENANT, ADDDEPENDENT, FINANCE, Update Details, Details, Contact Us, and Apartment.

**Tenant Details**: A form with a placeholder "Enter The Tenant Number" and a "Submit" button.

**Delete tenant**: A form with a placeholder "Enter The Tenant Number" and a "Submit" button.

**Contact Us**: A form with a placeholder "Enter The Tenant Number" and a "Submit" button.

The screenshot shows the phpMyAdmin interface connected to a MySQL database named "apt\_mgmt". The left sidebar shows the database structure with tables like "New", "admin", "apartment", "contact\_us", "dependent", "finance", "rent", and "tenant".

The "tenant" table is selected, displaying the following data:

TNO	TNAME	TPHONE
1	poorni soni	898765544
2	Ajin Sumesh	2147483647
3	arun kumar n	87676543

## **CONCLUSION**

The use of this software to manage all the aspects of an apartment makes it very easy for owners and property managers to maintain records of their apartments and to quickly look up important details. It saves a significant amount of time when compared to the traditional way of pen and paper, where records tend to get lost or are hard to update and search. Data entry is much faster and less tedious. There can also be multiple copies of the database ensuring that if the main record database runs into issues and is not available, the data is safe elsewhere and the records are not lost.

# REFERENCES

## PHP MYADMIN

<https://www.phpmyadmin.net/docs/>

## MYSQL

<https://dev.mysql.com/doc/>