

# **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 **2019-2020**. 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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## **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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## **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.

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# **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

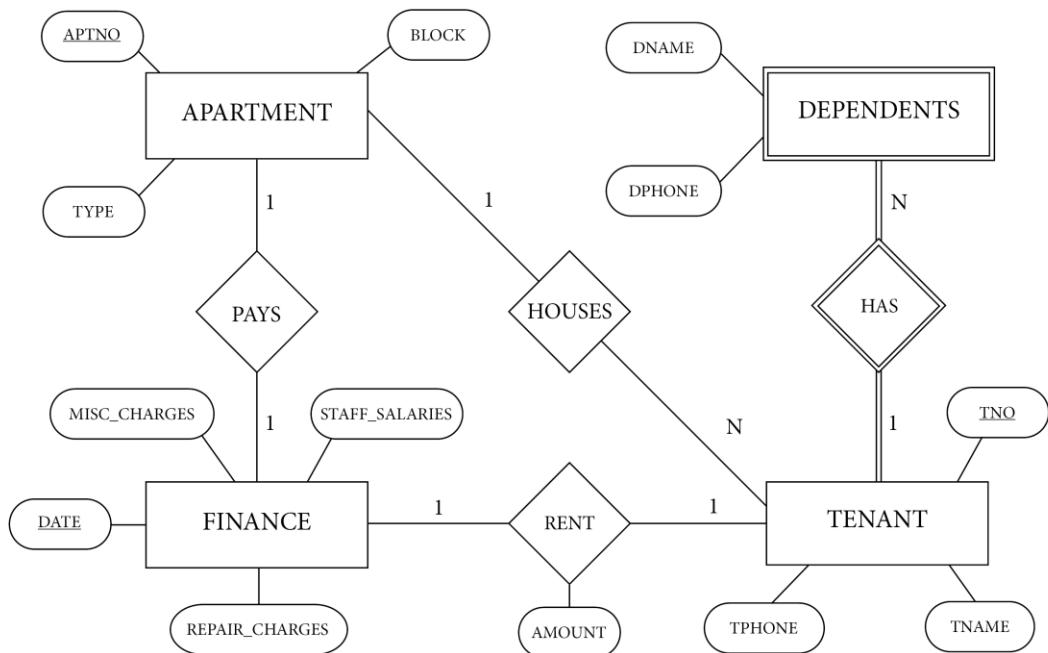
A relationship among two or more entities represents an association among the entities and whenever an attribute of one entity refers to another entity, there exists a relationship between the two entities.

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);

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

**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="#">Primary</a> <a href="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</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	TNO	5	A	No	

**Information:**

Data	16.0 KB	Format	dynamic
Index	0 B	Collation	utf8mb4_general_ci
Overhead	8.8 MB	Next autoindex	8
Effective	-8,372,224 B	Creation	Jan 07, 2022 at 03:34 PM
Total	16.0 KB	Last update	Jan 18, 2022 at 10:15 PM
<a href="#">Optimize table</a>		Last check	Jan 28, 2022 at 05:54 PM
Space usage		Row statistics	

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

**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>

**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	

**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 18, 2022 at 10:15 PM
<a href="#">Optimize table</a>		Last check	Jan 28, 2022 at 05:54 PM
Space usage		Row statistics	

Screenshot of the 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	TIN	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="#">More</a>
3	DPHONE	int(10)			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>

**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	No	TNO	5	A	Yes	

**Information:**

Data	16.0 Kib	Format	dynamic
Index	16.0 Kib	Collation	utf8mb4_general_ci
Overhead	0 B	Next autoidx	8
Effective	32.0 Kib	Creation	Jan 07, 2022 at 03:34 PM
Total	32.0 Kib	Last update	Jan 18, 2022 at 10:15 PM
<a href="#">Optimize table</a>			
Space usage Row statistics			

Screenshot of the 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 Kib	Format	dynamic
Index	16.0 Kib	Collation	utf8mb4_general_ci
Overhead	0 B	Next autoidx	8
Effective	32.0 Kib	Creation	Jan 07, 2022 at 03:34 PM
Total	32.0 Kib	Last update	Jan 18, 2022 at 10:16 PM
<a href="#">Optimize table</a>			
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="#">Unique</a> <a href="#">Index</a> <a href="#">Spatial</a> <a href="#">Fulltext</a>

**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**  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	Next autoindex	0
Effective	48.0	KB	Created	Jan 07, 2022 at 01:34 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 01:56 PM				
Row statistics				

[Space usage](#)

[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>

**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**  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	Next autoindex	0
Effective	16.0	KB	Created	Jan 08, 2022 at 01:35 PM
Total	16.0	KB	Last update	Jan 28, 2022 at 01:56 PM
<a href="#">Optimize table</a>				
Last check: Jan 28, 2022 at 01:56 PM				
Row statistics				

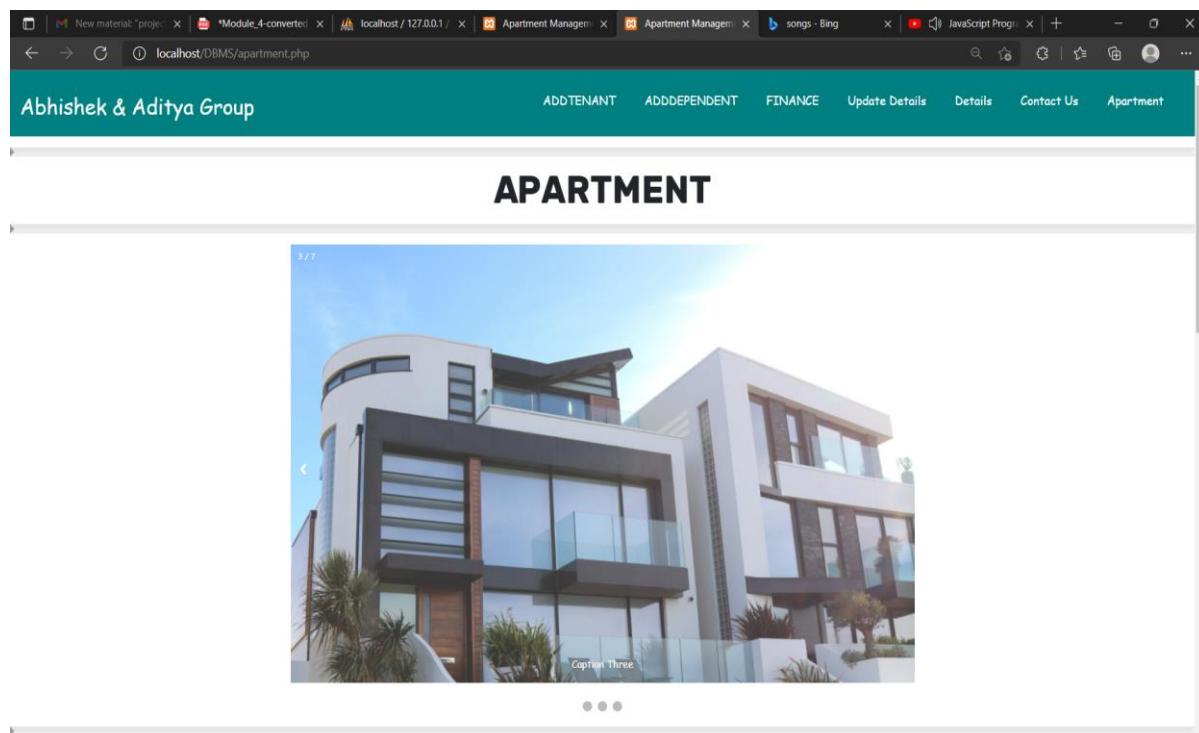
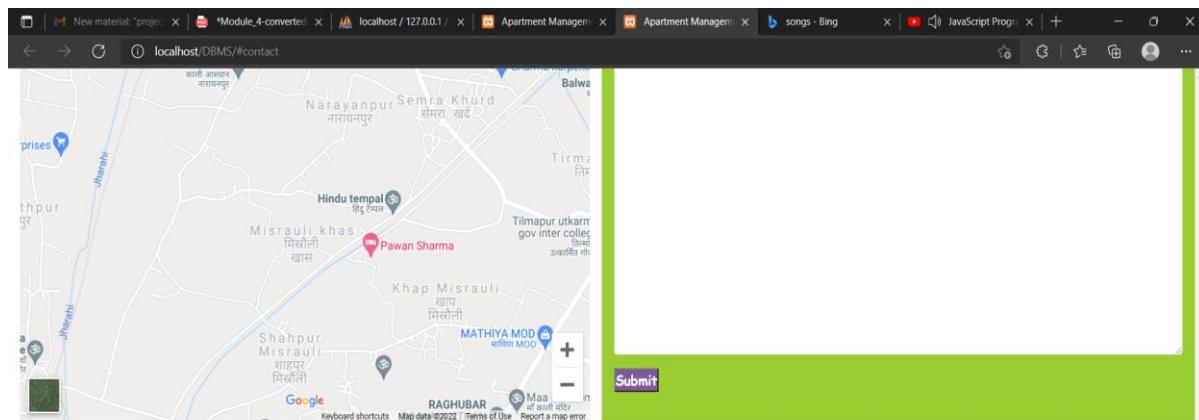
[Space usage](#)

[Console](#)

# HOME PAGE

A screenshot of a web browser showing the homepage of a real estate website. The header includes the logo "Abhishek & Aditya Group" and navigation links for ADDTENANT, ADDDEPENDENT, FINANCE, Update Details, Details, Contact Us, and Apartment. Below the header is a large section titled "PHOTOS" featuring a grid of apartment building images. The first image in the grid shows a multi-story residential building with many windows and balconies, with palm trees in front.

A screenshot of a web browser showing the "Contact Us" page. The page features a map of a local area with various landmarks labeled, including Khalwa Aashram, Durga Temple, and M/S Gangotri Group. To the right of the map is a green contact form with the title "Let us know". The form includes fields for Name, Email, Subject, and Message, each with an associated input field.



# 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 "ADD TENANT", "ADDDPENDENT", "FINANCE", "Update Details", "Details", "Contact Us", and "Apartment" on the right. Below the header, the main content area has a title "Add New Tenant". Underneath it is a form titled "Enter New Tenant Details" with fields for Name, Apartment Number, Phone, Type, and Block. The Name field contains "RAMKUWAR SINGH", Apartment Number is "1006", Phone is "8603944898", Type is "3BHK", and Block is "3". A "Submit" button is at the bottom of the form. Below the form is a "Contact Us" section.

**DATA INSERTED SUCCESSFULLY**

This screenshot is identical to the one above, showing the same browser setup and "Add New Tenant" form. However, the data entered in the fields has been cleared. The Name field now says "Enter the Tenant Name", the Apartment Number field says "Enter The Apartment Number", the Phone field says "Enter The Phone Number", the Type field says "Enter The Type", and the Block field says "Enter The Block". The "Submit" button remains at the bottom of the form.

The screenshot shows the phpMyAdmin interface for the 'apt\_mgmt' database. The left sidebar lists databases: New, apt\_mgmt, New, admin, apartment, contact\_us, dependent, finance, rent, tenant, information\_schema, mysql, performance\_schema, phpmyadmin, sms, and test. The 'tenant' table is selected in the 'apt\_mgmt' database. The table structure has columns TNO, TNAME, and TPHONE. The data shows four rows:

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

The screenshot shows the phpMyAdmin interface for the 'apt\_mgmt' database. The left sidebar lists databases: New, apt\_mgmt, New, admin, apartment, contact\_us, dependent, finance, rent, tenant, information\_schema, mysql, performance\_schema, phpmyadmin, sms, and test. The 'apartment' table is selected in the 'apt\_mgmt' database. The table structure has columns APTNO, TNO, TYPE, and BLOCK. The data shows four rows:

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

# ADD DEPENDENT

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Add Dependent". 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. Below this section is a "Contact Us" link. At the bottom of the page is a map and a green "Let us know" button with a "Name" field.

DATA INSERTED SUCCESSFULLY

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Add Dependent". 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. A message "Data Inserted Successfully" is displayed above the "Add Dependent" section. The "Enter Dependent Details" section is identical to the previous screenshot, with fields for Tenant Number (4), Dependent Name (SAHDEO SINGH), and Dependent Phone Number (78767574732). A "Submit" button is at the bottom. Below this section is a "Contact Us" link. At the bottom of the page is a map and a green "Let us know" button with a "Name" field.

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

**SELECT \* FROM `dependent`**

TNO	DNAME
1	Hansi soni
2	M SUMESH
4	SANDEO SINGH

## ADD FINANCE

**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
<input type="button" value="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, the page title is "Abhishek & Aditya Group". A navigation bar includes links for ADDTENANT, ADDDEPENDENT, FINANCE, Update Details, Details, Contact Us, and Apartment. The main content area features a large heading "Update Finance" and a form titled "Update Finance". The form fields include:

- Tenant Number (Text input)
- Apartment Number (Text input)
- Staff Salary (Text input)
- Miscellaneous Charges (Text input)
- Repair Charges (Text input)
- Rent (Text input)
- Date (Text input, format YYYY-MM-DD)

The screenshot shows the phpMyAdmin interface connected to a MySQL database named "apt\_mgmt". The left sidebar lists databases like "New", "apt\_mgmt", "information\_schema", "mysql", "performance\_schema", "phpmyadmin", "orms", and "test". The "rent" table is selected in the main query results pane. The table structure is shown with columns: DATE, TNO, and AMOUNT. The data in the table is:

DATE	TNO	AMOUNT
2021-01-12	1	20000
0900-00-00	2	23000
2022-01-24	4	30000

The screenshot shows the phpMyAdmin interface connected to a MySQL server (localhost: 127.0.0.1). The database selected is 'apt\_mgmt'. The 'Table' tab is active, displaying the 'finance' table. The table has columns: DATE, REPAIR\_CHARGES, STAFF\_SALARIES, MISC\_CHARGES, and APTNO. There are three rows of data:

	DATE	REPAIR_CHARGES	STAFF_SALARIES	MISC_CHARGES	APTN0
1	2022-01-01	340	120	250	1002
2	2022-01-12	1200	500	270	1001
3	2022-01-24	1250	1201	1501	1006

## TENANT DETAILS

The screenshot shows a web page titled "Tenant Details". The header includes links for ADDTENANT, ADDDEPENDENT, FINANCE, Update Details, Details, Contact Us, and Apartment. The page contains three main sections:

- Enter the Tenant Number:** A form with a text input field labeled "Tenant Number" containing the value "4" and a "Submit" button.
- Delete tenant:** A section with the text "Enter the Tenant Number" and a text input field labeled "Enter The Tenant Number".
- Contact Us:** A section with the text "Enter the Tenant Number" and a text input field labeled "Enter The Tenant Number".

The screenshot shows a web browser window with the URL `localhost/DBMS/connect4.php`. The page contains four data entry forms:

- Tenant Details:**

TENANT NUMBER	TENANT NAME	TENANT PHONE
4	RAMKUWAR SINGH	2147483647
- Apartment Details:**

APARTMENT NUMBER	APARTMENT TYPE	APARTMENT BLOCK
1006	3BHK	3
- Dependent Details:**

DEPENDENT NAME	DEPENDENT PHONE
SAHDEO SINGH	2147483647
- Payment Details:**

PAYMENT DATE	TOTAL AMOUNT
2022-01-24	\$9000

A red button labeled "ADD MORE" is located at the bottom right of the page.

# **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());
}

$tname = $_REQUEST['tname'];
$aptno = $_REQUEST['aptno'];
$phone = $_REQUEST['phone'];
$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, $phone)";

        $table2 = "INSERT INTO apartment VALUES ($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, $phone)";

        $table2 = "INSERT INTO apartment VALUES ($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
DBMS
connect2.php
29 $tno = $_REQUEST['tno'];
30 $aptno = $_REQUEST['aptno'];
31 $staff_sal = $_REQUEST['staff_sal'];
32
33 $misc_charges = $_REQUEST['misc_charges'];
34 $repaircharges = $_REQUEST['repaircharges'];
35 $rent = $_REQUEST['rent'];
36 $date = $_REQUEST['date'];
37
38 $table1 = "INSERT INTO finance VALUES ('$date','$repaircharges', '$staff_sal,$misc_charges,$aptno')";
39
40 $table2 = "INSERT INTO rent VALUES ('$date', $tno, $rent)";
41
42 if(mysqli_query($conn, $table1)){
43     $_SESSION['status'] = "Data Inserted Successfully";
44     header('location: pricing.php');
45 }
46
47 if(mysqli_query($conn, $table2)){
48     $_SESSION['status'] = "Data Inserted Successfully";
49     header('location: pricing.php');
50 }
51
52 ;mysqli_close($conn);
53
54 <a href="index.php">
55     <button style="color:black; background-color:red;">ADMIN</button>
56 </a>
57 </center>
58 </body>
59 </html>
```

File - Body - center Lin 45 Col 13 Tab Size 4 - UTF-8 - CRLF - PHP - Live Share

```
File Edit Selection View Go Run Terminal Help
DBMS
connect.php
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>CONNECT PHP</title>
5   </head>
6
7   <body>
8     <center>
9       <?php
10      session_start();
11
12      $conn = mysqli_connect("localhost", "root", "", "apt_mgat");
13
14      if($conn === false){
15          die("ERROR: Could not connect." . mysqli_connect_error());
16      }
17
18      $tno = $_REQUEST['tno'];
19      $result = mysqli_query($conn, "SELECT * FROM tenant WHERE tno=$tno");
20
21      while($row = mysqli_fetch_array($result))
22      {
23          echo "<table border='1'>";
24          <tr>
25              <th>TENANT NUMBER</th>
26              <th>TENANT NAME</th>
27              <th>TENANT PHONE</th>
28          </tr>;
29
30          echo "<tr>";
31          echo "<td>" . $row['TNO'] . "</td>";
32          echo "<td>" . $row['TNAME'] . "</td>";
33          echo "<td>" . $row['TPHONE'] . "</td>";
34          echo "</tr>";
35          echo "<br/>";echo "<br/>";
36          echo "</table>";
37      }
38  </center>
39 </body>
40 </html>
```

File - Body - center Lin 10 Col 1 Tab Size 4 - UTF-8 - CRLF - PHP - Live Share

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

- File Explorer:** On the left, it shows a tree view of files under the "DBMS" folder. The "connect.php" file is currently selected.
- Code Editor:** The main area displays the PHP code for "connect.php". The code includes logic to connect to a MySQL database, execute a query to fetch tenant and rent information, and output the results in an HTML table.
- Output:** A bottom panel labeled "OUTLINE" shows the structure of the current file.
- Status Bar:** At the bottom right, it shows the status "Ln 125 Col 1 Tab Size 4 Shift R Ctrl F5 Previews".

```
File Edit Selection View Go Run Terminal Help
... Details.php connectS.php connect4.php connect4.php x index.php login.php apartment.php addtenant.php connect1.php connect3.php pricing.php connect.php connect5.php connect5.php x connect5.php

DBMS
  - connect.php
    79 echo "<table border='3'>
80   <tr>
81     <th>DEPENDENT NAME</th>
82     <th>DEPENDENT PHONE</th>
83   </tr>";
84
85   echo "<tr>";
86   echo "<td>" . $row['DNAME'] . "</td>";
87   echo "<td>" . $row['DPHONE'] . "</td>";
88   echo "</tr>";
89   echo "<br/>";echo "<br/>";
90
91   echo "</table>";
92   echo "<br/>";
93
94 }
95
96 }
97 $result = mysqli_query($conn,"SELECT DATE,AMOUNT FROM rent,tenant where tenant.tno=$tno and rent.tno=tenant.tno");
98
99 while($row = mysqli_fetch_array($result))
100 {
101   echo "<table border='4'>
102   <tr>
103     <th>PAYMENT DATE</th>
104     <th>TOTAL AMOUNT</th>
105   </tr>";
106
107   echo "<tr>";
108   echo "<td>" . $row['DATE'] . "</td>";
109   echo "<td>" . $row['AMOUNT'] . "</td>";
110   echo "</tr>";
111   echo "<br/>";echo "<br/>";
112
113   echo "</table>";
114   echo "<br/>";echo "<br/>";
115
116 }
117
118
119
120
```

```
<!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'];
$tno = $_REQUEST['tno'];
$phone = $_REQUEST['phone'];
$type = $_REQUEST['type'];
$block = $_REQUEST['block'];
$dname = $_REQUEST['dname'];
$phone = $_REQUEST['phone'];

$table1="update tenant set TNAME = '$tname' where TNO = '$tno'";
$table2="update tenant set TPHONE = '$phone' where TNO = '$tno'";
$table3="update apartment set TYPE = '$type' where TNO = '$tno'";
$table4="update apartment set BLOCK = '$block' where TNO = '$tno';
```

```
$table1="update apartment set TYPE = '$type' where TNO = '$tno'";
$table2="update apartment set BLOCK = '$block' where TNO = '$tno'";
$table3="update dependent set DNAME = '$dname' where TNO = '$tno'";
$table4="update dependent set DPHONE = '$phone' where TNO = '$tno';

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');
}

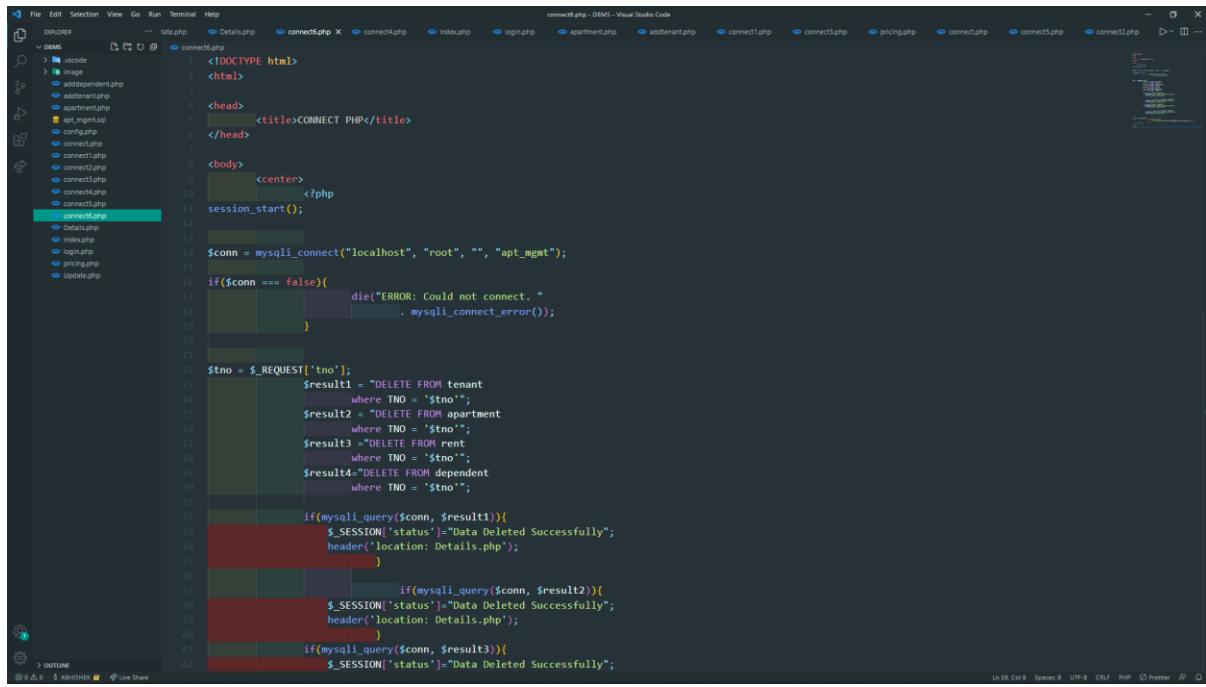
if(mysqli_query($conn, $table3)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

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

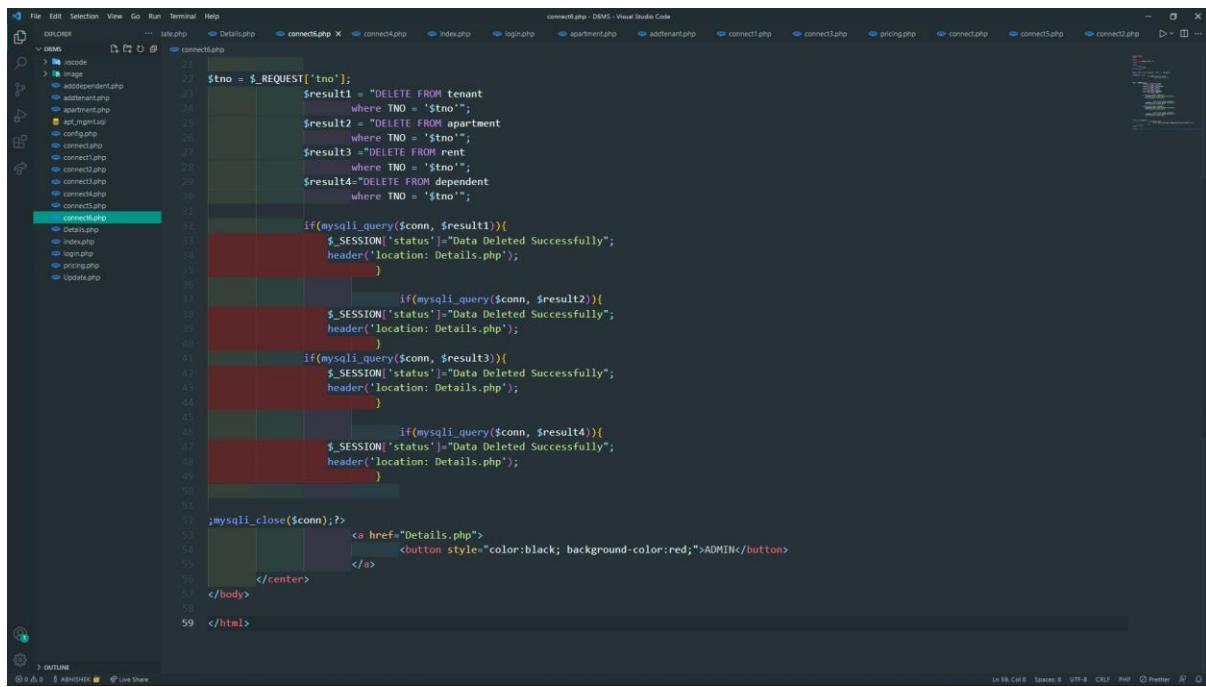
if(mysqli_query($conn, $table5)){
$_SESSION['status']="Data Updated Successfully";
header('location: Update.php');
}

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();
            $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');
            }
        </?php>
    </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

Update Tenant

Update Tenant Details

Name: ABHISHEK KUMAR

Tenant Number: 4

Apartment Number: 1006

Phone: 89867665

Type: 6BHK

Block: 6

Dependent Name: RAMKUWAR SINGH

Dependent Phone Number: 91999038

Submit

Contact Us

DATA UPDATED SUCCESSFULLY

Data Updated Successfully

Abhishek & Aditya Group

ADD TENTANT ADD DEPENDENT FINANCE Update Details Contact Us Apartment

Update Tenant

Update Tenant Details

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

The screenshot shows the phpMyAdmin interface for the 'apt\_mgmt' database. The left sidebar shows the database structure with tables: apt\_mgmt, New, admin, apartment, contact\_us, dependent, finance, rent, tenant, information\_schema, mysql, performance\_schema, phpmyadmin, sys, and test. The 'tenant' table is selected in the main area. The table has columns TNO, TNAME, and TPHONE. The data shows four rows:

TNO	TNAME	TPHONE
1	pooja soni	898765544
2	Ajin Sunesh	2147483647
3	arun kumar n	87676543
4	ABHISHEK KUMAR	898676665

Below the table, there are buttons for Print, Copy to clipboard, Export, Display chart, and Create view.

The screenshot shows the phpMyAdmin interface for the 'apt\_mgmt' database. The left sidebar shows the database structure with tables: apt\_mgmt, New, admin, apartment, contact\_us, dependent, finance, rent, tenant, information\_schema, mysql, performance\_schema, phpmyadmin, sys, and test. The 'apartment' table is selected in the main area. The table has columns APTNO, TNO, TYPE, and BLOCK. The data shows four rows:

APTNNO	TNO	TYPE	BLOCK
4	3	3bhk	2
1001	1	9 bhk	9
1002	2	2BHK	1
1005	4	6BHK	6

Below the table, there are buttons for Print, Copy to clipboard, Export, Display chart, and Create view.

The screenshot shows the phpMyAdmin interface connected to the localhost database. The left sidebar lists databases: apt\_mgmt, New, admin, apartment, contact\_us, dependent, finance, rent, tenant, Information\_schema, mysql, performance\_schema, phpmyadmin, srms, and test. The apt\_mgmt database is selected. The top navigation bar includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers. A message box at the top states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a green bar indicates "Showing rows 0 - 2 (3 total). Query took 0.0003 seconds." The SQL query shown is "SELECT \* FROM `dependent`". The results table displays three rows:

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

Below the results are buttons for Show all, Number of rows (set to 25), Filter rows, Search this table, Sort by key (None), and a "Query results operations" section with Print, Copy to clipboard, Export, Display chart, and Create view options.

## **DELETE TENANT**

The screenshot shows a web-based apartment management system. At the top, there are several browser tabs: "New material: 'project report fo...'", "Module\_4-converted.pdf", "localhost / 127.0.0.1 / apt\_mgmt", "Apartment Management System", and "#VIDEO\_SONG | #Rakesh M...". The main content area has a header "Delete tenant" followed by a form titled "Enter the Tenant Number" with a text input containing "4" and a "Submit" button. Below this is a section titled "Contact Us" featuring a map of a local area with various landmarks like Madarsa, Khap Bawali, Durga Temple, and Khalwa Ashram. To the right is a green sidebar titled "Let us know" with fields for "Name", "Email", and "Subject", each accompanied by an "Enter Your" placeholder text.

# DATA DELETED SUCCESSFULLY

The screenshot shows three separate成功的 deletion operations:

- Tenant Details:** A modal window titled "Enter the Tenant Number" with a text input field containing "poorni soni" and a "Submit" button.
- Delete tenant:** A modal window titled "Enter the Tenant Number" with a text input field containing "poorni soni" and a "Submit" button.
- Contact Us:** A section with a modal window titled "Enter the Tenant Number" with a text input field containing "poorni soni" and a "Submit" button.

The screenshot shows the phpMyAdmin interface connected to a MySQL database named "apt\_mgmt". The "tenant" table is selected, displaying the following data:

	TNO	TNAME	TPHONE
<input type="checkbox"/>	1	poorni soni	898765544
<input type="checkbox"/>	2	Ajin Sunesh	2147453647
<input type="checkbox"/>	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/>