



DATABASE MANAGEMENT SYSTEM PROJECT – REPORT
TOPIC: *Wanderlust – Travel Management*



TEAM DETAILS

| | |
|----------------|---------------|
| 1.PRIYA MOHATA | PES2UG19CS301 |
| 2.R SHARMILA | PES2UG19CS309 |
| 3.RITIK | PES2UG19CS332 |

TABLE OF CONTENTS :

| | |
|-----------------------------------|----------------|
| REASONS FOR CHOICE OF DBMS | PAGE 3 |
| RELATIONAL MODEL | PAGE 4 |
| CREATE COMMANDS | PAGE 5 |
| INSERT COMMANDS | PAGE 7 |
| CONTRIBUTIONS | PAGE 11 |

REASONS FOR CHOOSING PHPMYADMIN AND SQL :



- **MySQL** is one of the most widely used database systems for dynamic websites and content management systems.
- **PhpMyAdmin** is the most common method of administering a MySQL database, included in many CMSs as well as the XAMPP and MAMP testing environments.
- RDBMS are generally very focused on providing strong consistency and ACID transactions (although not always), tremendous functionality, stability, and strong reliability and robustness guarantees. They are also very well-suited for complex querying and non-real time analytics applications
- We have chosen PhpMyAdmin and MySQL because we are going to integrate the database with our travel form website.
- Reasons to choose MySQL :
 - Speed
 - Ease of use
 - Easy to query
 - On-Demand Scalability
 - High Availability
 - Rock-Solid Reliability
 - Web and Datawarehouse strengths

RELATIONAL MODEL :

BUS

| | | |
|--------------|--------|-----------|
| <u>BUSNO</u> | BODYNO | ROUTENAME |
|--------------|--------|-----------|

OWNER

| | | | |
|----------------|---------|----------|-------|
| <u>OWNERNO</u> | ADDRESS | MOBILENO | BUSNO |
|----------------|---------|----------|-------|

PASSENGER

| | | | |
|------------|-------|---------|-----------|
| <u>PNO</u> | PNAME | ADDRESS | ROUTENAME |
|------------|-------|---------|-----------|

GOVERNMENT

| | | |
|----------|----------------|--------------|
| DEPTNAME | <u>OWNERNO</u> | <u>TAXNO</u> |
|----------|----------------|--------------|

AGENT

| | | |
|--------------|----------|------------|
| <u>ANAME</u> | AADDRESS | <u>ANO</u> |
|--------------|----------|------------|

CREATE COMMANDS

CREATING THE DATABASE *TRAVEL_WEBSITE*

- CREATING THE TABLE *BUS*

```
CREATE TABLE BUS(BUSNO VARCHAR(10) NOT NULL,BODYNO VARCHAR(10) NOT NULL,ROUTENAME VARCHAR(10) NOT NULL,PRIMARY KEY(BUSNO));
```

- CREATING THE TABLE *OWNER*

```
CREATE TABLE OWNER(OWNERNO VARCHAR(10) NOT NULL,ADDRESS VARCHAR(10) NOT NULL,MOBILENO INT(10) NOT NULL,BUSNO VARCHAR(10) NOT NULL,PRIMARY KEY(OWNERNO),FOREIGN KEY(BUSNO) REFERENCES BUS(BUSNO));
```

- CREATING THE TABLE *PASSENGER*

```
CREATE TABLE PASSENGER(PNO VARCHAR(10) NOT NULL,PNAME VARCHAR(10) NOT NULL,ADDRESS VARCHAR(10) NOT NULL,ROUTENAME VARCHAR(20) NOT NULL,PRIMARY KEY(PNO));
```

- CREATING THE TABLE *GOVERNMENT*

```
CREATE TABLE GOVERNMENT(DEPTNAME VARCHAR(15) NOT NULL, OWNERNO VARCHAR(10) NOT NULL,TAXNO VARCHAR(40) NOT NULL,PRIMARY KEY(TAXNO),FOREIGN KEY(OWNERNO) REFERENCES OWNER(OWNERNO));
```

- CREATING THE TABLE *AGENT*

```
CREATE TABLE AGENT(ANAME VARCHAR(15) NOT NULL,AADDRESS VARCHAR(40) NOT NULL,ANO VARCHAR(10) NOT NULL, PRIMARY KEY(ANO));
```

FINAL IMPLEMENTATION :

phpMyAdmin

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- travel_website
 - New
 - agent
 - bus
 - government
 - owner
 - passenger

Server: 127.0.0.1 > Database: travel_website

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking

Filters

Containing the word:

| Table | Action | Rows | Type | Collation | Size | Overhead |
|-------------------------------------|---|-----------|---------------|---------------------------|------------------|------------|
| <input type="checkbox"/> agent | ★ Browse Structure Search Insert Empty Drop | 10 | InnoDB | utf8mb4_general_ci | 16.0 KiB | - |
| <input type="checkbox"/> bus | ★ Browse Structure Search Insert Empty Drop | 10 | InnoDB | utf8mb4_general_ci | 16.0 KiB | - |
| <input type="checkbox"/> government | ★ Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| <input type="checkbox"/> owner | ★ Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| <input type="checkbox"/> passenger | ★ Browse Structure Search Insert Empty Drop | 10 | InnoDB | utf8mb4_general_ci | 16.0 KiB | - |
| 5 tables | Sum | 30 | InnoDB | utf8mb4_general_ci | 112.0 KiB | 0 B |

☐ Check all

Print Data dictionary

[LINK TO CODE - CREATE SQL](#)

INSERT COMMANDS

- INSERTING INTO *BUS*

```
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('KA51MX2050','B100','BLR-CHN');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('KA51MX2051','B101','BLR-UDP');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('RJ51MX2054','B102','BKN-DEL');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('JH51MX2060','B103','DVG-PTN');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('KA51MX2072','B104','BLR-MLR');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('AZ51MX2090','B105','ARZ-LVS');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('HR51MX3050','B106','KLN-KUK');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('HR51MX6054','B107','PNP-DEL');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('HR51MX9060','B108','GGN-UK');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('KA51MX7002','B109','BLR-GOA');
INSERT INTO BUS(BUSNO,BODYNO,ROUTENAME) VALUES ('RJ51MX2054','B102','BKN-DEL');
```

The screenshot shows the phpMyAdmin interface with the 'bus' table selected. The table contains 10 rows of data. The interface includes a sidebar with a database tree, a top navigation bar, and a main content area displaying the table data.

| BUSNO | BODYNO | ROUTENAME |
|------------|--------|-----------|
| AZ51MX2090 | B105 | ARZ-LVS |
| HR51MX3050 | B106 | KLN-KUK |
| HR51MX6054 | B107 | PNP-DEL |
| HR51MX9060 | B108 | GGN-UK |
| JH51MX2060 | B103 | DVG-PTN |
| KA51MX2050 | B100 | BLR-CHN |
| KA51MX2051 | B101 | BLR-UDP |
| KA51MX2072 | B104 | BLR-MLR |
| KA51MX7002 | B109 | BLR-GOA |
| RJ51MX2054 | B102 | BKN-DEL |

- INSERTING INTO *PASSENGER*

```
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES1','RITIK','SYMPHONY,URLANA KALAN','BLR-CHN');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES2','PRIYA','SILVER PALMS,BIKANER','BKN-DEL');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES3','SHARMILA','SILVERPOOL,BAGLUR','BLR-UDP');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES4','PRIYANSH','PESU,DEVGARH','BVG-PTN');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES5','RISHAB','KEERTHI ROYAL,PANIPAT','PNP-DEL');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES6','KAPIL','AJMEERA,KARNAL','KNL-KUK');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES7','SAGAR','DLF,ARIZONA','ARZ-LVS');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES8','SACHIN','VSR,GURGAON','GGN-UK');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES9','PARTH','PRESTIGE,BANGALORE','BLR-GOA');
INSERT INTO PASSENGER(PNO,PNAME,ADDRESS,ROUTENAME) VALUES ('PES10','CHARAN','RELIABLE DOMICILE,BANGALORE','BLR-MLR');
```

Showing rows 0 - 9 (10 total, Query took 0.0007 seconds.)

```
SELECT * FROM `passenger`
```

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

| PNO | PNAME | ADDRESS | ROUTENAME |
|-------|----------|------------|-----------|
| PES1 | RITIK | SYMPHONY,U | BLR-CHN |
| PES10 | CHARAN | RELIABLE D | BLR-MLR |
| PES2 | PRIYA | SILVER PAL | BKN-DEL |
| PES3 | SHARMILA | SILVERPOOL | BLR-UDP |
| PES4 | PRIYANSH | PESU,DEVGA | BVG-PTN |
| PES5 | RISHAB | KEERTHI RO | PNP-DEL |
| PES6 | KAPIL | AJMEERA,KA | KNL-KUK |
| PES7 | SAGAR | DLF,ARIZON | ARZ-LVS |
| PES8 | SACHIN | VSR,GURGAO | GGN-UK |
| PES9 | PARTH | PRESTIGE,B | BLR-GOA |

- INSERTING INTO AGENT

```
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('MUSKAN','AJMERAINF','A100');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('AGARSH','SALARPURIA','A101');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('SAKSHI','SYMPHONY','A102');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('NEIL','RAJARRN','A103');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('PRIYANSH','ORION','A104');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('AJITH','SJR','A105');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('TANAY','EQUINOX','A106');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('RITIK','NATARAJAN','A107');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('IHA','GREENAGE','A108');
INSERT INTO AGENT(ANAME,AADDRESS,ANO) VALUES ('SANJANA','CONCORDE','A109');
```

Showing rows 0 - 9 (10 total, Query took 0.0006 seconds.)

```
SELECT * FROM `agent`
```

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

| ANAME | AADDRESS | ANO |
|----------|------------|------|
| MUSKAN | AJMERAINF | A100 |
| AGARSH | SALARPURIA | A101 |
| SAKSHI | SYMPHONY | A102 |
| NEIL | RAJARRN | A103 |
| PRIYANSH | ORION | A104 |
| AJITH | SJR | A105 |
| TANAY | EQUINOX | A106 |
| RITIK | NATARAJAN | A107 |
| IHA | GREENAGE | A108 |
| SANJANA | CONCORDE | A109 |

- INSERT INTO GOVERNMENT


```

INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('KKRTC-4343','1002','29-852-12345');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('TNSRTC-4716','1003','33-741-95135');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('RJRTC','1938','08-654-75396');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('DTC','1345','07-852-74139');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('BMTc-6422','6792','51-125-18525');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('HRRTC','4097','51-852-32165');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('JHRTC','1234','27-694-74125');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('HRRTC','2776','06-765-18565');
INSERT INTO GOVERNMENT (DEPTNAME,OWNERNO,TAXNO) VALUES ('HRRTC','1902','06-379-25545');

```

The screenshot shows the phpMyAdmin interface for a database named 'travel_website'. The 'government' table is selected, and its data is displayed in a table format. The table has three columns: DEPTNAME, OWNERNO, and TAXNO. There are 9 rows of data. The interface includes a sidebar with a tree view of the database structure, a top navigation bar with various tools like Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. Below the table, there are options to check all, edit, copy, delete, or export the selected rows.

| DEPTNAME | OWNERNO | TAXNO |
|-------------|---------|--------------|
| HRRTC | 1902 | 06-379-25545 |
| HRRTC | 2776 | 06-765-18565 |
| DTC | 1345 | 07-852-74139 |
| RJRTC | 1938 | 08-654-75396 |
| JHRTC | 1234 | 27-694-74125 |
| KKRTC-4343 | 1002 | 29-852-12345 |
| TNSRTC-4716 | 1003 | 33-741-95135 |
| BMTc-6422 | 6792 | 51-125-18525 |
| HRRTC | 4097 | 51-852-32165 |

- INSERT INTO OWNER

```

INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('1002','MARATHALLI',9654872314,'KA51MX2072');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('1345','DELHI',9658743219,'RJ51MX2054');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('6792','JAYNAGAR',8654971328,'KA51MX2051');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('1938','RAJASTHAN',9765832468,'AZ51MX2090');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('1902','HARYANA',8523649718,'HR51MX6054');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('2776','HARYANA',7894563218,'HR51MX9060');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('1003','CHENNAI',8523697415,'KA51MX2050');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('4097','HARYANA',9576318468,'HR51MX3050');
INSERT INTO OWNER (OWNERNO,ADDRESS,MOBILENO,BUSNO) VALUES ('1234','JHARKHAND',6549871235,'JH51MX2060');

```

pnpmAdmin

Recent | Favorites

- New
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
- travel_website
 - New
 - agent
 - bus
 - government
 - owner
 - passenger

Showing rows 0 - 8 (9 total, Query took 0.0012 seconds.)

SELECT * FROM `owner`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

+ Options

| | | | OWNERNO | ADDRESS | MOBILENO | BUSNO |
|--------------------------|------|------|---------|---------|------------|-----------------------|
| <input type="checkbox"/> | Edit | Copy | Delete | 1002 | MARATHALLI | 2147483647 KA51MX2072 |
| <input type="checkbox"/> | Edit | Copy | Delete | 1003 | CHENNAI | 2147483647 KA51MX2050 |
| <input type="checkbox"/> | Edit | Copy | Delete | 1234 | JHARKHAND | 2147483647 JH51MX2060 |
| <input type="checkbox"/> | Edit | Copy | Delete | 1345 | DELHI | 2147483647 RJ51MX2054 |
| <input type="checkbox"/> | Edit | Copy | Delete | 1902 | HARYANA | 2147483647 HR51MX6054 |
| <input type="checkbox"/> | Edit | Copy | Delete | 1938 | RAJASTHAN | 2147483647 AZ51MX2090 |
| <input type="checkbox"/> | Edit | Copy | Delete | 2776 | HARYANA | 2147483647 HR51MX9060 |
| <input type="checkbox"/> | Edit | Copy | Delete | 4097 | HARYANA | 2147483647 HR51MX3050 |
| <input type="checkbox"/> | Edit | Copy | Delete | 6792 | JAYNAGAR | 2147483647 KA51MX2051 |

☐ 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

[LINK TO THE INSERT COMMANDS](#)

CONTRIBUTIONS

| | |
|------------------------|--|
| 1. PRIYA MOHATA | COMPILED THE DOCUMENT AND WROTE CREATE COMMANDS |
| 2. SHARMILA R | WROTE COMMANDS FOR GOVERNMENT AND BUS INSERTION |
| 3. RITIK | WROTE COMMANDS FOR OWNER AND AGENT INSERTION |

ALL OF US TOGETHER INSTALLED THE REQUIRED SOFTWARES AND WORKED ON THE PROJECT.

.....THANK YOU