UE20CS301

DATABASE MANAGEMENT SYSTEM

LAB 4 – TASK 1 RESULTS
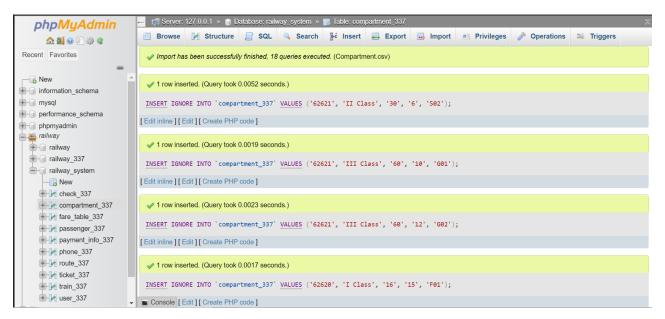
NAME: RIMJHIM SINGH
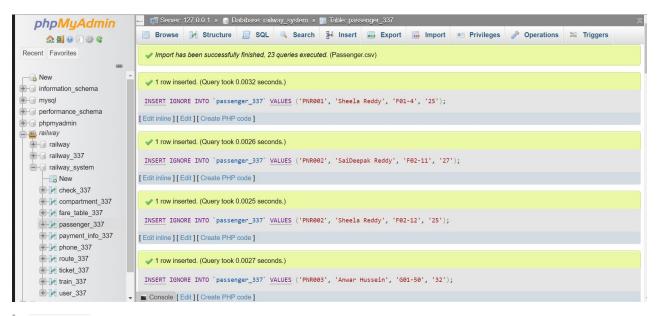
SRN: PES1UG20CS337

ROLL NO: 22

1. INSERT RECORDS
    I)   USING INSERT
    II)   Using LOAD DATA Command
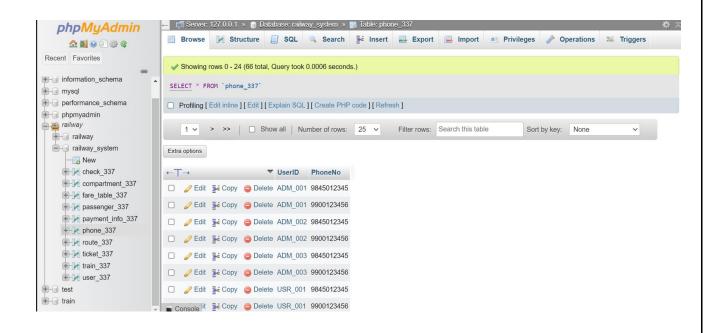
✅ 1 row inserted. (Query took 0.0046 seconds.)

```sql
INSERT INTO compartment_337 VALUES(62621,"I Class", 16, 6,"F01");
```

[Edit inline] [Edit] [Create PHP code]

✅ Import has been successfully finished, 18 queries executed. (Compartment.csv)

✅ 1 row inserted. (Query took 0.0052 seconds.)

```sql
INSERT IGNORE INTO `compartment_337` VALUES ('62621', 'II Class', '30', '6', 'S02');
```

[Edit inline] [Edit] [Create PHP code]

✅ 1 row inserted. (Query took 0.0019 seconds.)

```sql
INSERT IGNORE INTO `compartment_337` VALUES ('62621', 'III Class', '60', '10', 'G01');
```

[Edit inline] [Edit] [Create PHP code]

✅ 1 row inserted. (Query took 0.0023 seconds.)

```sql
INSERT IGNORE INTO `compartment_337` VALUES ('62621', 'III Class', '60', '12', 'G02');
```

[Edit inline] [Edit] [Create PHP code]

✅ 1 row inserted. (Query took 0.0017 seconds.)

```sql
INSERT IGNORE INTO `compartment_337` VALUES ('62620', 'I Class', '16', '15', 'F01');
```

Console [Edit] [Create PHP code]

✅ Import has been successfully finished, 23 queries executed. (Passenger.csv)

✅ 1 row inserted. (Query took 0.0032 seconds.)

```sql
INSERT IGNORE INTO `passenger_337` VALUES ('PNR001', 'Sheela Reddy', 'F01-4', '25');
```

[Edit inline] [Edit] [Create PHP code]

✅ 1 row inserted. (Query took 0.0026 seconds.)

```sql
INSERT IGNORE INTO `passenger_337` VALUES ('PNR002', 'SaiDeepak Reddy', 'F02-11', '27');
```

[Edit inline] [Edit] [Create PHP code]

✅ 1 row inserted. (Query took 0.0025 seconds.)

```sql
INSERT IGNORE INTO `passenger_337` VALUES ('PNR002', 'Sheela Reddy', 'F02-12', '25');
```

[Edit inline] [Edit] [Create PHP code]

✅ 1 row inserted. (Query took 0.0027 seconds.)

```sql
INSERT IGNORE INTO `passenger_337` VALUES ('PNR003', 'Anwar Hussein', 'G01-50', '32');
```

Console [Edit] [Create PHP code]

✅ 66 rows inserted. (Query took 0.0128 seconds.)

```sql
LOAD DATA INFILE "Phone.csv" INTO TABLE phone_337 COLUMNS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"' ESCAPED BY '"' LINES TERMINATED BY '\n' IGNORE 1 LINES;
```

[Edit inline] [Edit] [Create PHP code]

2. Calculate and update age attribute in User Table

```
MariaDB [railway_system]> UPDATE user_337 SET Age = TIMESTAMPDIFF(YEAR, DOB, CURDATE());
Query OK, 33 rows affected (0.011 sec)
Rows matched: 33  Changed: 33  Warnings: 0

MariaDB [railway_system]> select * from user_337;
```

UserID	Age	Fname	LName	DOB	U_Type	Pincode	StreetNo
ADM_001	33	Narendra	Modi	1989-04-14	ADMIN	600047	Old Jail Road
ADM_002	32	Droupadi	Murmu	1990-04-14	ADMIN	640012	High Street
ADM_003	31	Manmohan	Singh	1991-04-08	ADMIN	575003	Pumpwell Road
USR_001	51	Ajit	Ullal	1971-01-01	PSGR	560001	10 Janpath
USR_002	21	Muhammed	Ali	2000-10-09	PSGR	560003	10 Downing
USR_003	25	Sai Deepak	Reddy	1996-12-12	PSGR	600001	14 Kailsh Marg
USR_004	25	Rudra	Agarwal	1996-12-13	PSGR	600042	5 Lohia Garden
USR_005	24	Rahul	Khanna	1997-12-14	PSGR	600067	1 Pink Street
USR_006	23	Nirmala	Seturaman	1998-12-15	PSGR	560105	3 Blue Avenue
USR_007	22	Smriti	Irani	1999-12-16	PSGR	575014	4 Banyan Avenie
USR_008	56	Ajit	Sethi	1966-04-14	PSGR	575001	6 Poes Garden
USR_009	55	Arjun	Allu	1967-04-08	PSGR	575020	7 Dhamaka street
USR_010	54	Samanta	Prabhu	1968-04-14	PSGR	600042	8 Clone Colony
USR_011	53	Kiran	Bedi	1969-04-14	PSGR	560003	56 Brigade Road
USR_012	52	Rahul	Gandhi	1970-04-08	PSGR	475001	Mirza road
USR_013	51	Rashkit	Shetty	1971-04-14	PSGR	560009	JC Road
USR_014	50	Rishi	Sunak	1972-04-14	PSGR	600034	Anna Sali
USR_015	49	Vedavalli	Srinath	1973-04-14	PSGR	560054	Church Street Bangalore
USR_016	48	Subbu	Saravana	1974-04-14	PSGR	600043	American Street
USR_017	47	Sheela	Dixit	1975-04-08	PSGR	560048	Kasturba Road
USR_018	46	Margaret	Alva	1976-04-14	PSGR	560008	New BEL Road
USR_019	45	Arun	Kumar	1977-04-14	PSGR	600046	Mint Street
USR_020	44	Anshu	Bhardwaj	1978-04-14	PSGR	575001	KSR Road
USR_021	43	Suma	Sampat	1979-04-08	PSGR	560012	Old Airport Road Bangalore
USR_022	42	Srihari	Udupa	1980-04-14	PSGR	560015	Suranjan Das Road
USR_023	41	Satish	Kotian	1981-04-14	PSGR	600044	T Nagar
USR_024	40	Shradha	Nayar	1982-04-08	PSGR	560006	M G Road Bangalore
USR_025	39	Manisha	Solanki	1983-04-08	PSGR	575030	M G Road
USR_026	38	Bharti	Devgan	1984-04-14	PSGR	560059	NAL Wind Tunnel Road
USR_027	37	Roopa	Ram	1985-04-14	PSGR	575023	Bunder Road
USR_028	36	Pallavi	Ram	1986-04-08	PSGR	560044	Lavelle Road
USR_029	35	Ravi	Naik	1987-04-14	PSGR	600045	Thiru V ka Salai
USR_030	34	Virat	Murthy	1988-04-14	PSGR	575011	Bejai New Road

```
33 rows in set (0.001 sec)
```

3. Routes with distance btw 70 and 150

```
MariaDB [railway_system]> SELECT * FROM route_337 WHERE distance BETWEEN 70 AND 150;
+----------+--------+------+-----------+-----------+----------+
| Train_No | FromNo | ToNo | FromName  | ToName    | Distance |
+----------+--------+------+-----------+-----------+----------+
|    25260 |      1 |    2 | Mangaluru | Kannur    |      131 |
|    25260 |      4 |    4 | Palakkad  | Chennai   |      130 |
|    25261 |      1 |    2 | Chennai   | Palakkad  |      130 |
|    25261 |      3 |    4 | Kannur    | Mangaluru |      131 |
|    58450 |      3 |    4 | Mysore    | Bengaluru |      139 |
|    58451 |      1 |    2 | Bengaluru | Mysore    |      139 |
|    62620 |      1 |    2 | Chennai   | Sholingur |       90 |
|    62620 |      1 |    3 | Chennai   | Katpadi   |      129 |
|    62620 |      4 |    5 | Bangarpet | Bengaluru |       71 |
|    62621 |      3 |    5 | Katpadi   | Chennai   |      130 |
|    62621 |      4 |    5 | Sholingur | Chennai   |       90 |
+----------+--------+------+-----------+-----------+----------+
11 rows in set (0.027 sec)
```

4. Chennai-Sholingur Route

```
MariaDB [railway_system]> select * from route_337 WHERE fromname="Chennai" AND ToName="Sholingur";
+----------+--------+------+-----------+-----------+----------+
| Train_No | FromNo | ToNo | FromName  | ToName    | Distance |
+----------+--------+------+-----------+-----------+----------+
|    62620 |      1 |    2 | Chennai   | Sholingur |       90 |
+----------+--------+------+-----------+-----------+----------+
1 row in set (0.001 sec)
```

5. Train details whose type is not mail.

```
MariaDB [railway_system]> select * from train_337 WHERE T_Type != "MAIL";
+----------+----------------+-----------+-------------+-----------+--------------+
| Train_No | T_Name         | T_Type    | Destination | Arrival   | Availability |
+----------+----------------+-----------+-------------+-----------+--------------+
|    58450 | MAN-BEN Express | Fast     | Bengaluru   | Mangaluru | yes          |
|    58451 | BEN-MAN Express | Fast     | Mangaluru   | Bengaluru | yes          |
|    62620 | CHE-BEN Shatabdi | Superfast | Bengaluru  | Chennai   | No           |
|    62621 | BEN-CHE Shatabdi | Superfast | Chennai    | Bengaluru | yes          |
+----------+----------------+-----------+-------------+-----------+--------------+
4 rows in set (0.001 sec)

MariaDB [railway_system]>
```

6. Chennai – Bengaluru

```
MariaDB [railway_system]> SELECT T_Name FROM train_337 WHERE Destination = "Chennai" AND Arrival ="Bengaluru" ;
+-----------------+
| T_Name          |
+-----------------+
| BEN-CHE Shatabdi |
+-----------------+
1 row in set (0.001 sec)

MariaDB [railway_system]> show tables;
```

7. Chennai after 8:00

```
MariaDB [railway_system]> SELECT * FROM train_337 WHERE Train_No IN (SELECT TrainNo FROM ticket_337 WHERE DepartureTime > '08:00:00' AND Departure="Chennai");
+----------+----------------+--------+-------------+---------+--------------+
| Train_No | T_Name         | T_Type | Destination | Arrival | Availability |
+----------+----------------+--------+-------------+---------+--------------+
|    25261 | Managaluru Mail | Mail  | Mangaluru   | Chennai | Yes          |
+----------+----------------+--------+-------------+---------+--------------+
1 row in set (0.001 sec)

MariaDB [railway_system]>
```

8. Users born between 1980 and 1990

```
MariaDB [railway_system]> select Fname, Lname, DOB from user_337 WHERE DOB BETWEEN "1980-01-01" AND "1990-12-31";
+----------+---------+------------+
| Fname    | Lname   | DOB        |
+----------+---------+------------+
| Narendra | Modi    | 1989-04-14 |
| Droupadi | Murmu   | 1990-04-14 |
| Srihari  | Udupa   | 1980-04-14 |
| Satish   | Kotian  | 1981-04-14 |
| Shradha  | Nayar   | 1982-04-08 |
| Manisha  | Solanki | 1983-04-08 |
| Bharti   | Devgan  | 1984-04-14 |
| Roopa    | Ram     | 1985-04-14 |
| Pallavi  | Ram     | 1986-04-08 |
| Ravi     | Naik    | 1987-04-14 |
| Virat    | Murthy  | 1988-04-14 |
+----------+---------+------------+
11 rows in set (0.001 sec)
```

9. Users with names starting with S

```
MariaDB [railway_system]> select * from user_337 WHERE Fname LIKE "S%";
+---------+-----+------------+----------+------------+--------+---------+--------------------------+
| UserID  | Age | Fname      | LName    | DOB        | U_Type | Pincode | StreetNo                 |
+---------+-----+------------+----------+------------+--------+---------+--------------------------+
| USR_003 |  25 | Sai Deepak | Reddy    | 1996-12-12 | PSGR   |  600001 | 14 Kailsh Marg           |
| USR_007 |  22 | Smriti     | Irani    | 1999-12-16 | PSGR   |  575014 | 4 Banyan Avenie          |
| USR_010 |  54 | Samanta    | Prabhu   | 1968-04-14 | PSGR   |  600042 | 8 Clone Colony           |
| USR_016 |  48 | Subbu      | Saravana | 1974-04-14 | PSGR   |  600043 | American Street          |
| USR_017 |  47 | Sheela     | Dixit    | 1975-04-08 | PSGR   |  560048 | Kasturba Road            |
| USR_021 |  43 | Suma       | Sampat   | 1979-04-08 | PSGR   |  560012 | Old Airport Road Bangalore |
| USR_022 |  42 | Srihari    | Udupa    | 1980-04-14 | PSGR   |  560015 | Suranjan Das Road        |
| USR_023 |  41 | Satish     | Kotian   | 1981-04-14 | PSGR   |  600044 | T Nagar                  |
| USR_024 |  40 | Shradha    | Nayar    | 1982-04-08 | PSGR   |  560006 | M G Road Bangalore       |
+---------+-----+------------+----------+------------+--------+---------+--------------------------+
9 rows in set (0.001 sec)
```

10. Availability

```
MariaDB [railway_system]> SELECT * FROM compartment_337 WHERE type='I Class' and Train_No = '62621';
+----------+---------+----------+--------------+---------------+
| Train_No | Type    | Capacity | Availability | CompartmentNo |
+----------+---------+----------+--------------+---------------+
|    62621 | I Class |       16 | 6            | F01           |
+----------+---------+----------+--------------+---------------+
1 row in set (0.139 sec)
```

11. Union Bank

```
MariaDB [railway_system]> SELECT PNR, TransacID from payment_info_337 WHERE Bank='UNION BANK';
+--------+-----------+
| PNR    | TransacID |
+--------+-----------+
| PNR012 |    243535 |
| PNR015 |    758900 |
| PNR010 |    867546 |
| PNR003 |    978776 |
+--------+-----------+
4 rows in set (0.013 sec)
```