

DBMS ASSIGNMENT 3
ORPHANAGE MANAGEMENT SYSTEM

TABLES

Guardians Table:

```
mysql> select * from Guardians;
```

GuardianID	FirstName	LastName	ContactNumber	Address
1	John	Doe	1234567890	123 Main St
2	Jane	Smith	9876543210	456 Oak St
3	Suma	K	5555555555	789 Elm St
4	Michael	Johnson	1112223333	101 Pine St
5	Amanda	Lee	9998887777	202 Maple St

Children Table:

```
mysql> select * from Children;
```

ChildID	FirstName	LastName	Gender	DateOfBirth	EntryDate	MedicalHistory
1	Alex	Doe	Male	2010-05-15	2021-02-10	None
2	Emma	Smith	Female	2012-08-20	2021-03-05	Allergies
3	David	K	Male	2015-11-10	2022-01-20	Asthma
4	Sophia	Johnson	Female	2013-04-25	2020-12-15	None
5	Oliver	Lee	Male	2014-07-30	2022-02-28	Diabetes

5 rows in set (0.00 sec)

Staff Table:

```
mysql> select * from Staff;
```

StaffID	FirstName	LastName	Position	ContactNumber	Email	Address
1	Robert	Miller	Teacher	3333333333	robert@email.com	321 Birch St
2	Maria	Garcia	Nurse	4444444444	maria@email.com	432 Cedar St
3	Kevin	Clark	Counselor	5556667777	kevin@email.com	543 Pine St
4	Eva	Wong	Cook	6666666666	eva@email.com	654 Maple St
5	Daniel	Chen	Janitor	7777777777	daniel@email.com	765 Oak St

5 rows in set (0.00 sec)

Rooms Table:

```
mysql> select * from Rooms;
```

RoomID	RoomNumber	Capacity	Occupancy	Description
1	101	4	2	Family Room
2	201	6	4	Large Dormitory
3	301	2	1	Single Room
4	102	3	2	Standard Room
5	202	4	3	Medium Dormitory

5 rows in set (0.00 sec)

Activities Table:

```
mysql> select * from Activities;
```

ActivityID	ActivityName	Description	Date	Time	Location
1	Sports Day	Annual sports event	2023-06-15	10:00:00	Sports Ground
2	Art Exhibition	Showcasing students' artwork	2023-07-20	14:00:00	Art Hall
3	Science Fair	Display of science projects	2023-08-25	11:30:00	Science Lab
4	Music Concert	Performance by school band	2023-09-10	19:00:00	Auditorium
5	Field Trip	Visit to the local zoo	2023-10-05	09:00:00	Various

5 rows in set (0.00 sec)

Donors Table:

```
mysql> select * from Donors;
```

DonorID	DonorName	DonorAddress
1	ABC Foundation	123 Foundation St
2	XYZ Corporation	456 Corporate St
3	Community Bank	789 Community St
4	Smith Family	101 Smith St
5	Johnson Enterprises	202 Johnson St

5 rows in set (0.00 sec)

Donations Table:

```
mysql> select * from Donations;
+-----+-----+-----+-----+
| DonationID | Amount | DonationDate | Purpose |
+-----+-----+-----+-----+
| 1 | 1000.00 | 2023-05-01 | Education Fund |
| 2 | 500.00 | 2023-06-10 | School Supplies |
| 3 | 1500.00 | 2023-07-15 | Building Renovation |
| 4 | 200.00 | 2023-08-20 | Scholarship Program |
| 5 | 800.00 | 2023-09-25 | Sports Equipment |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Expenses Table:

```
mysql> select * from Expenses;
+-----+-----+-----+
| ExpenseID | ExpenseName | Description |
+-----+-----+-----+
| 1 | School Supplies | Purchase of stationery and textbooks |
| 2 | Maintenance | Repair and maintenance of school facilities |
| 3 | Utilities | Electricity, water, and internet bills |
| 4 | Salaries | Payment to school staff |
| 5 | Events | Costs related to school events |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

Debit Table:

```
mysql> select * from Debit;
+-----+-----+-----+-----+
| DebitID | ExpenseID | Amount | Date |
+-----+-----+-----+-----+
| 1 | 1 | 300.00 | 2023-05-05 |
| 2 | 2 | 150.00 | 2023-06-10 |
| 3 | 3 | 200.00 | 2023-07-15 |
| 4 | 4 | 500.00 | 2023-07-20 |
| 5 | 5 | 100.00 | 2023-08-25 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

GuardianChildMap:

```
mysql> select * from GuardianChildMap;
+-----+-----+-----+
| GuardianChildID | GuardianID | ChildID |
+-----+-----+-----+
|                1 |          3 |        1 |
|                2 |          2 |        2 |
|                3 |          3 |        3 |
|                4 |          3 |        4 |
|                5 |          5 |        5 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

ChildActivityMap:

```
mysql> select * from ChildActivityMap;
+-----+-----+-----+
| ChildActivityID | ChildID | ActivityID |
+-----+-----+-----+
|                1 |        1 |          1 |
|                2 |        2 |          2 |
|                3 |        3 |          3 |
|                4 |        4 |          4 |
|                5 |        5 |          5 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

StaffActivityMap:

```
mysql> select * from StaffActivityMap;
+-----+-----+-----+
| StaffActivityID | StaffID | ActivityID |
+-----+-----+-----+
|          1     |      1  |          1  |
|          2     |      2  |          2  |
|          3     |      3  |          3  |
|          4     |      4  |          4  |
|          5     |      5  |          5  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

DonorDonationMap:

```
mysql> select * from DonorDonationMap;
+-----+-----+-----+
| DonorDonationID | DonorID | DonationID |
+-----+-----+-----+
|          1     |      1  |          1  |
|          2     |      2  |          2  |
|          3     |      3  |          3  |
|          4     |      4  |          4  |
|          5     |      5  |          5  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

ChildRoomMap:

```
mysql> select * from ChildRoomMap;
+-----+-----+-----+
| ChildRoomID | ChildID | RoomID |
+-----+-----+-----+
|          1  |      1  |      1  |
|          2  |      2  |      2  |
|          3  |      3  |      3  |
|          4  |      4  |      4  |
|          5  |      5  |      5  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

QUERIES:

A) Calculate the total expenses for the month of July 2023b

```
mysql> SELECT Children.*
-> FROM Children
-> JOIN GuardianChildMap ON Children.ChildID = GuardianChildMap.ChildID
-> JOIN Guardians ON GuardianChildMap.GuardianID = Guardians.GuardianID
-> WHERE CONCAT(Guardians.FirstName, ' ', Guardians.LastName) = 'Suma K';
```

ChildID	FirstName	LastName	Gender	DateOfBirth	EntryDate	MedicalHistory
1	Alex	Doe	Male	2010-05-15	2021-02-10	None
3	David	K	Male	2015-11-10	2022-01-20	Asthma
4	Sophia	Johnson	Female	2013-04-25	2020-12-15	None

3 rows in set (0.00 sec)

B) List all the children who were under the guardian “Suma K”

```
mysql> SELECT SUM(Amount) AS TotalExpenses
-> FROM Debit
-> JOIN Expenses ON Debit.ExpenseID = Expenses.ExpenseID
-> WHERE MONTH(Debit.Date) = 7 AND YEAR(Debit.Date) = 2023;
```

TotalExpenses
700.00

1 row in set (0.00 sec)