

UE20CS301: DATABASE MANAGEMENT SYSTEM

MINI PROJECT

SRN: PES1UG20CS808	NAME: BHAVANA N G	SEC: C
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EVENT MANAGEMENT COMPANY DATABASE

CATALOG

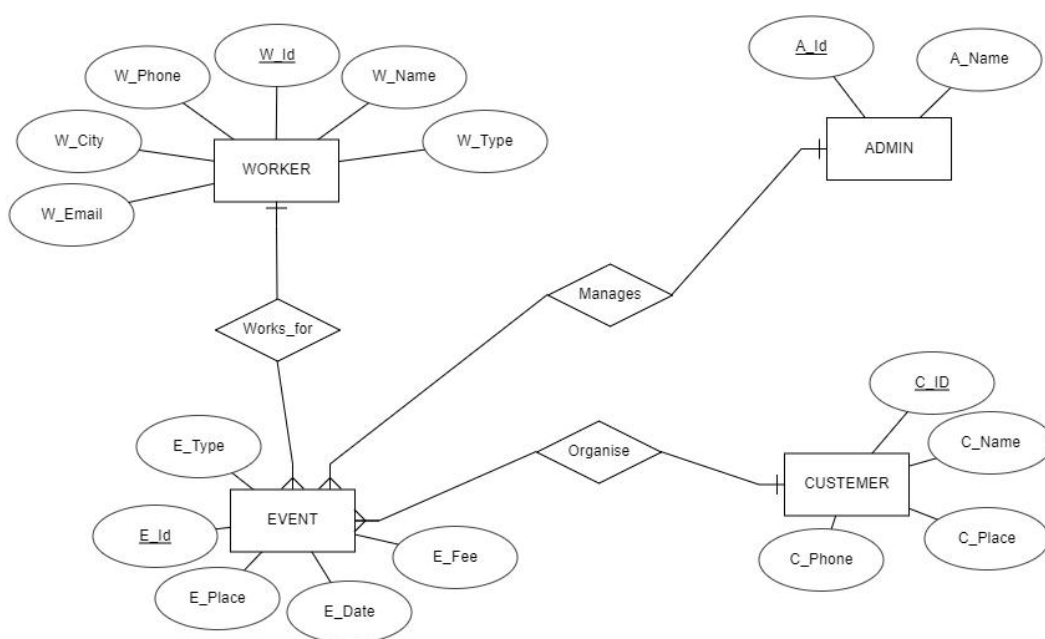
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1) SCOPE OF THE PROJECT

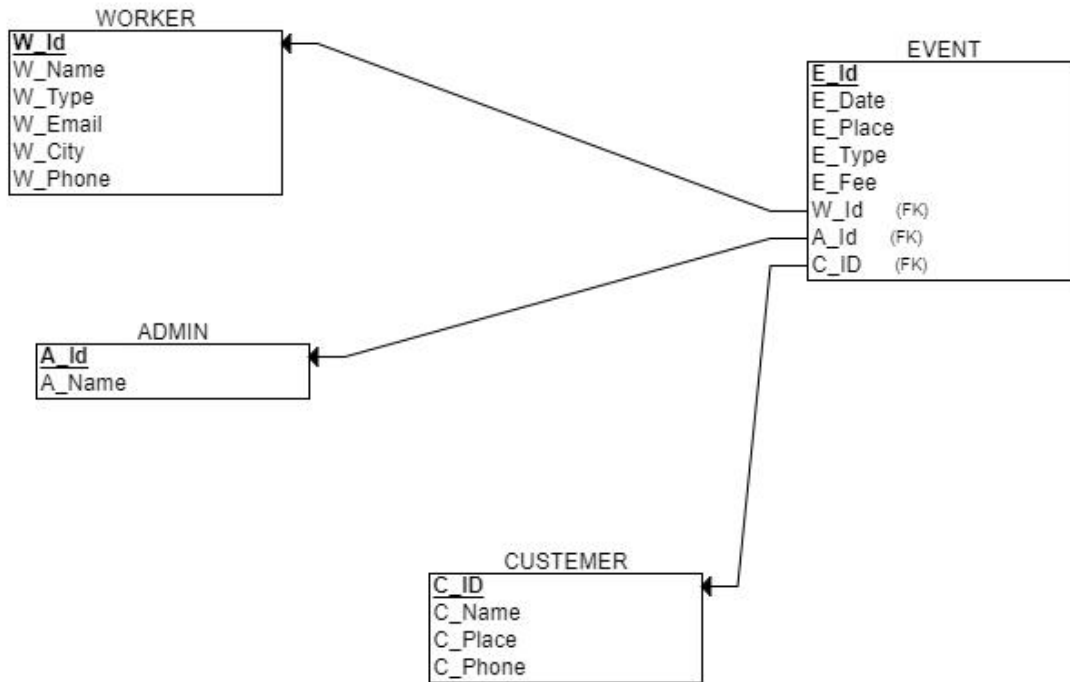
THIS IS AN EVENT MANAGEMENT COMPANY DATABASE WHERE WE MAINTAIN INFORMATION OF THE ALL EVENTS,CUSTOMERS,WORKERS AND WORKERS.

EVENT TABLE CONTAINS EVENT ID, EVENT LOCATION,ADMIN ID WHOSE HANDLING THAT EVENT,WORKER ID WHOSE WORKING ON THAT EVENT.

2) ER DIAGRAM:



3) RELATIONAL SCHEMA DIAGRAM



MYSQL :

4) CREATING DATABASE

#CREATE DATABASE EMS;

```
MariaDB [(none)]> create database ems;
Query OK, 1 row affected (0.003 sec)
```

#USE EMS;

```
MariaDB [(none)]> use ems;
Database changed
```

5) CREATING TABLES

A)WORKER

#CREATE TABLE WORKER

```
(
    W_ID INT NOT NULL,
    W_NAME VARCHAR(20),
    W_TYPE VARCHAR(20),
    W_EMAIL VARCHAR(20),
    W_CITY VARCHAR(20),
    W_PHONE VARCHAR(10) NOT NULL,
    PRIMARY KEY (W_ID)
```

);

```
MariaDB [EMS]> CREATE TABLE WORKER
-> (
->   W_Id INT NOT NULL,
->   W_Name VARCHAR(20),
->   W_Type VARCHAR(20),
->   W_Email VARCHAR(20),
->   W_City VARCHAR(20),
->   W_Phone VARCHAR(10) NOT NULL,
->   PRIMARY KEY (W_Id)
-> );
Query OK, 0 rows affected (0.035 sec)
```

#DESC WORKER;

```
MariaDB [EMS]> desc WORKER;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| W_Id   | int(11)   | NO   | PRI | NULL     |       |
| W_Name | varchar(20)| YES  |     | NULL     |       |
| W_Type | varchar(20)| YES  |     | NULL     |       |
| W_Email| varchar(20)| YES  |     | NULL     |       |
| W_City | varchar(20)| YES  |     | NULL     |       |
| W_Phone| varchar(10)| NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.019 sec)
```

B)ADMIN

#CREATE TABLE ADMIN

```
(
  A_ID INT NOT NULL,
  A_NAME VARCHAR(20),
  PRIMARY KEY (A_ID)
);
```

```
MariaDB [ems]> CREATE TABLE ADMIN
-> (
->   A_Id INT NOT NULL,
->   A_Name VARCHAR(20),
->   PRIMARY KEY (A_Id)
-> );
Query OK, 0 rows affected (0.044 sec)
```

#DESC ADMIN;

```
MariaDB [ems]> desc ADMIN;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| A_Id   | int(11)   | NO   | PRI | NULL     |       |
| A_Name | varchar(20)| YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.021 sec)
```

C)CUSTOMER

#CREATE TABLE CUSTOMER

```
(
  C_ID INT NOT NULL,
  C_NAME VARCHAR(20),
  C_PLACE VARCHAR(20),
  C_PHONE VARCHAR(10) NOT NULL,
  PRIMARY KEY (C_ID)
);
```

```
MariaDB [EMS]> CREATE TABLE CUSTOMER
-> (
->   C_ID INT NOT NULL,
->   C_Name VARCHAR(20),
->   C_Place VARCHAR(20),
->   C_Phone VARCHAR(10) NOT NULL,
->   PRIMARY KEY (C_ID)
-> );
Query OK, 0 rows affected (0.039 sec)
```

```
#DESC CUSTOMER;
```

```
MariaDB [EMS]> desc customer;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| C_ID  | int(11)   | NO   | PRI | NULL    |       |
| C_Name | varchar(20) | YES  |     | NULL    |       |
| C_Place | varchar(20) | YES  |     | NULL    |       |
| C_Phone | varchar(10) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.019 sec)
```

D)EVENT

```
# CREATE TABLE EVENT
```

```
(
  E_ID INT NOT NULL,
  E_DATE DATE,
  E_PLACE VARCHAR(20),
  E_TYPE VARCHAR(20),
  E_FEE INT NOT NULL,
  W_ID INT NOT NULL,
  A_ID INT NOT NULL,
  C_ID INT NOT NULL,
  PRIMARY KEY (E_ID),
  FOREIGN KEY (W_ID) REFERENCES WORKER(W_ID),
  FOREIGN KEY (A_ID) REFERENCES ADMIN(A_ID),
  FOREIGN KEY (C_ID) REFERENCES CUSTOMER(C_ID)
);
```

```

MariaDB [ems]> CREATE TABLE EVENT
-> (
->   E_Id INT NOT NULL,
->   E_Date DATE,
->   E_Place VARCHAR(20),
->   E_Type VARCHAR(20),
->   E_Fee INT NOT NULL,
->   W_Id INT NOT NULL,
->   A_Id INT NOT NULL,
->   C_ID INT NOT NULL,
->   PRIMARY KEY (E_Id),
->   FOREIGN KEY (W_Id) REFERENCES WORKER(W_Id),
->   FOREIGN KEY (A_Id) REFERENCES ADMIN(A_Id),
->   FOREIGN KEY (C_ID) REFERENCES CUSTOMER(C_ID)
-> );
Query OK, 0 rows affected (0.042 sec)

```

#DESC EVENT;

```

MariaDB [ems]> desc EVENT;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| E_Id  | int(11)       | NO   | PRI | NULL     |       |
| E_Date | date          | YES  |     | NULL     |       |
| E_Place | varchar(20)   | YES  |     | NULL     |       |
| E_Type | varchar(20)   | YES  |     | NULL     |       |
| E_Fee  | int(11)       | NO   |     | NULL     |       |
| W_Id   | int(11)       | NO   | MUL | NULL     |       |
| A_Id   | int(11)       | NO   | MUL | NULL     |       |
| C_ID   | int(11)       | NO   | MUL | NULL     |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.022 sec)

```

6) POPULATING DATA

A) INSERTING VALUES ONE AFTER ANOTHER

#INSERT INTO ADMIN VALUES(001,"ANU");

#INSERT INTO ADMIN VALUES(002,"ANJALI");

#SELECT * FROM ADMIN;

```

MariaDB [ems]> insert into ADMIN values(001,"ANU");
Query OK, 1 row affected (0.009 sec)

MariaDB [ems]> insert into ADMIN values(002,"ANJALI");
Query OK, 1 row affected (0.003 sec)

MariaDB [ems]> select * from ADMIN;
+-----+-----+
| A_Id | A_Name |
+-----+-----+
| 1    | ANU    |
| 2    | ANJALI |
+-----+-----+
2 rows in set (0.003 sec)

```


Event Management Company Database

✔ Import has been successfully finished, 6 queries executed. (EVENT.csv)

✔ 1 row inserted. (Query took 0.0015 seconds.)

```
INSERT INTO `event` VALUES ('11', '2022-12-11', 'SULLIA', 'Marriage', '300000', '1001', '1', '441');
```

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

✔ 1 row inserted. (Query took 0.0013 seconds.)

```
INSERT INTO `event` VALUES ('22', '2022-12-12', 'MYSURU', 'Engagment', '50000', '1001', '2', '443');
```

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

✔ 1 row inserted. (Query took 0.0018 seconds.)

```
INSERT INTO `event` VALUES ('33', '2022-12-13', 'OOTY', 'Mehendi', '100000', '1004', '1', '445');
```

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

MariaDB [ems]> select * FROM EVENT;

E_Id	E_Date	E_Place	E_Type	E_Fee	W_Id	A_Id	C_ID
11	2022-12-11	SULLIA	Marriage	300000	1001	1	441
22	2022-12-12	MYSURU	Engagment	50000	1001	2	443
33	2022-12-13	OOTY	Mehendi	100000	1004	1	445
44	2022-12-14	LEH	Engagment	60000	1003	1	442
55	2022-12-15	DHARWAD	Birthday	25000	1003	2	444
66	2022-12-16	MYSURU	Anniversary	40000	1005	2	441

6 rows in set (0.001 sec)

>WORKER

File Home Insert Page Layout Formulas Data Review View Help Tell me

Paste Font Alignment Styles Cells

F2 7349150055

Document Recovery

Excel has recovered the following files. Save the ones you wish to keep.

WORKER.csv [Original]
Version created last time the...
17-11-2022 10:06

	A	B	C	D	E	F
1	1001	Venkatesh	Manager	Venku@e	MYSURU	9008593113
2	1002	Arvind	Caterier	Arviu@en	SULLIA	7349150055
3	1003	Lokesh	Flowerme	Lokeu@er	PUTTUR	7892051935
4	1004	Vishvesh	Cleaner	Vishu@er	SAGARA	9480155585
5	1005	Ramesh	Accountar	Rameu@e	SRINGERI	9423422342
6	1006	Suresh	Cleaner	Sureu@er	BENGALU	9878927304
7	1007	Vishnu	Decoter	Vishnu@e	PUTTUR	8887382826
8						

Event Management Company Database

✓ Import has been successfully finished, 7 queries executed. (WORKER.csv)

✓ 1 row inserted. (Query took 0.0016 seconds.)

```
INSERT INTO `worker` VALUES ('1001', 'Venkatesh', 'Manager', 'Venku@ems', 'MYSURU', '9008593113');
```

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

✓ 1 row inserted. (Query took 0.0015 seconds.)

```
INSERT INTO `worker` VALUES ('1002', 'Arvind', 'Caterier', 'Arviu@ems', 'SULLIA', '7349150055');
```

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

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

```
INSERT INTO `worker` VALUES ('1003', 'Lokesh', 'Flowermen', 'Lokeu@ems', 'PUTTUR', '7892051935');
```

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

✓ 1 row inserted. (Query took 0.0013 seconds.)

```
INSERT INTO `worker` VALUES ('1004', 'Vishvesh', 'Cleaner', 'Vishu@ems', 'SAGARA', '9480155585');
```

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

```
MariaDB [ems]> select * from worker;
```

W_Id	W_Name	W_Type	W_Email	W_City	W_Phone
1001	Venkatesh	Manager	Venku@ems	MYSURU	9008593113
1002	Arvind	Caterier	Arviu@ems	SULLIA	7349150055
1003	Lokesh	Flowermen	Lokeu@ems	PUTTUR	7892051935
1004	Vishvesh	Cleaner	Vishu@ems	SAGARA	9480155585
1005	Ramesh	Accountant	Rameu@ems	SRINGERI	9423422342
1006	Suresh	Cleaner	Sureu@ems	BENGALURU	9878927304
1007	Vishnu	Decoter	Vishnu@ems	PUTTUR	8887382826

7 rows in set (0.001 sec)

QUERIES

7) JOIN OPERATIONS

a) DISPLAY THE DETAILS OF WORKERS WHO WORK UNDER EVENT ID 11(INNER JOIN).

#SELECT

WORKER.W_ID,WORKER.W_NAME,WORKER.W_TYPE,WORKER.W_EMAIL,WORKER.W_CITY,
WORKER.W_PHONE,EVENT.E_ID FROM WORKER INNER JOIN EVENT ON
WORKER.W_ID=EVENT.W_ID AND E_ID=11;

```
MariaDB [ems]> Select WORKER.W_Id,WORKER.W_Name,WORKER.W_Type,WORKER.W_Email,WORKER.W_City,WORKER.W_Phone,EVENT.E_Id fro  
m WORKER INNER JOIN EVENT ON WORKER.W_Id=EVENT.W_Id AND E_ID=11;
```

W_Id	W_Name	W_Type	W_Email	W_City	W_Phone	E_Id
1001	Venkatesh	Manager	Venku@ems	MYSURU	9008593113	11

1 row in set (0.001 sec)

Event Management Company Database

- b) THE FOLLOWING SQL STATEMENT WILL SELECT ALL CUSTOMERS, AND ANY EVENTS THEY MIGHT HAVE(LEFT JOIN)

```
# SELECT CUSTOMER.C_NAME,EVENT.E_ID FROM CUSTOMER LEFT JOIN EVENT ON CUSTOMER.C_ID=EVENT.C_ID;
```

```
MariaDB [ems]> SELECT CUSTOMER.C_NAME,EVENT.E_ID from CUSTOMER LEFT JOIN EVENT ON CUSTOMER.C_Id=EVENT.C_Id;
ERROR 1146 (42S02): Table 'ems.customer' doesn't exist
MariaDB [ems]> SELECT CUSTOMER.C_NAME,EVENT.E_ID from CUSTOMER LEFT JOIN EVENT ON CUSTOMER.C_Id=EVENT.C_Id;
```

C_NAME	E_Id
PRATHIBHA	11
PRATHIBHA	66
ARPITH	44
SNEHA	22
PREM	55
SAMPREETH	33

6 rows in set (0.001 sec)

- c) THE FOLLOWING SQL STATEMENT WILL RETURN ALL WORKER, AND ANY EVENT THEY MIGHT HAVE PLACED(RIGHT JOIN)

```
# SELECT EVENT.E_ID, WORKER.W_NAME FROM EVENT RIGHT JOIN WORKER ON EVENT.W_ID = WORKER.W_ID;
```

```
MariaDB [ems]> SELECT EVENT.E_ID, WORKER.W_Name FROM EVENT RIGHT JOIN WORKER ON EVENT.W_Id = WORKER.W_Id;
```

E_ID	W_Name
11	Venkatesh
22	Venkatesh
NULL	Arvind
44	Lokesh
55	Lokesh
33	Vishvesh
66	Ramesh
NULL	Suresh
NULL	Vishnu

9 rows in set (0.001 sec)

- d) THE FOLLOWING SQL QUERY WILL RETURN ALL ADMIN AND EVENTS THEY HANDLE.

```
#SELECT E.E_ID,E.E_DATE,E.E_PLACE,E.E_TYPE,E.E_FEE,A.A_ID,A.A_NAME FROM EVENT AS E JOIN ADMIN AS A;
```

```
MariaDB [ems]> SELECT E.E_ID,E.E_Date,E.E_Place,E.E_Type,E.E_Fee,A.A_Id,A.A_Name from EVENT AS E JOIN ADMIN AS A;
```

E_ID	E_Date	E_Place	E_Type	E_Fee	A_Id	A_Name
11	2022-12-11	SULLIA	Marriage	300000	1	ANU
11	2022-12-11	SULLIA	Marriage	300000	2	ANJALI
22	2022-12-12	MYSURU	Engagment	50000	1	ANU
22	2022-12-12	MYSURU	Engagment	50000	2	ANJALI
33	2022-12-13	OOTY	Mehendi	100000	1	ANU
33	2022-12-13	OOTY	Mehendi	100000	2	ANJALI
44	2022-12-14	LEH	Engagment	60000	1	ANU
44	2022-12-14	LEH	Engagment	60000	2	ANJALI
55	2022-12-15	DHARWAD	Birthday	25000	1	ANU
55	2022-12-15	DHARWAD	Birthday	25000	2	ANJALI
66	2022-12-16	MYSURU	Anniversary	40000	1	ANU
66	2022-12-16	MYSURU	Anniversary	40000	2	ANJALI

12 rows in set (0.001 sec)

- e) THE FOLLOWING SQL QUERY WILL RETURN ALL THE EVENT TYPE, WORKER WORKING ON THAT EVENT AND AND WORKER PHONE NUMBER.

Event Management Company Database

#SELECT E_TYPE AS EVENT,W_NAME AS WORKER,W_PHONE AS PHONE_NUMBER FROM WORKER,EVENT WHERE EVENT.W_ID = WORKER.W_ID;

```
MariaDB [ems]> SELECT E_TYPE AS EVENT,W_NAME AS WORKER,W_PHONE AS PHONE_NUMBER FROM WORKER,EVENT WHERE EVENT.W_ID = WORKER.W_ID;
```

EVENT	WORKER	PHONE_NUMBER
Marriage	Venkatesh	9008593113
Engagment	Venkatesh	9008593113
Mehendi	Vishvesh	9480155585
Engagment	Lokesh	7892051935
Birthday	Lokesh	7892051935
Anniversary	Ramesh	9423422342
Fest	Venkatesh	9008593113

7 rows in set (0.213 sec)

f) THE FOLLOWING SQL QUERY WILL RETURN ALL THE CUSTOMER NAME, EVENT TYPE, EVENT DATE, ADMIN AND WORKER WHERE EVENT TYPE IS ENGAGEMENT.

#SELECT E_TYPE AS EVENT,C_NAME AS CUSTOMER,E_DATE ,A_NAME AS ADMIN, W_NAME AS WORKER FROM WORKER,ADMIN,CUSTOMER WHERE EVENT.E_TYPE = "Engagment" AND ADMIN.A_ID=EVENT.E_ID AND EVENT.W_ID=WORKER.W_ID AND CUSTOMER.C_ID=EVENT.C_ID;

```
MariaDB [ems]> SELECT E_TYPE AS EVENT,C_NAME AS CUSTOMER,E_DATE ,A_NAME AS ADMIN, W_NAME AS WORKER FROM WORKER,ADMIN,CUSTOMER,EVENT WHERE EVENT.E_TYPE = "Engagment" AND ADMIN.A_ID=EVENT.A_ID AND EVENT.W_ID=WORKER.W_ID AND CUSTOMER.C_ID=EVENT.C_ID;
```

EVENT	CUSTOMER	E_DATE	ADMIN	WORKER
Engagment	ARPITH	2022-11-28	ANU	Lokesh
Engagment	SNEHA	2022-11-25	Bhavana	Venkatesh

2 rows in set (0.001 sec)

8) AGGREGATE FUNCTIONS

A)TO DISPLAY TOTAL NUMBER OF WORKERS IN THE DATABASE(COUNT).

SELECT COUNT(W_ID) FROM WORKER;

```
MariaDB [ems]> SELECT * FROM WORKER;
```

W_Id	W_Name	W_Type	W_Email	W_City	W_Phone
1001	Venkatesh	Manager	Venku@ems	MYSURU	9008593113
1002	Arvind	Caterier	Arviu@ems	SULLIA	7349150055
1003	Lokesh	Flowermen	Lokeu@ems	PUTTUR	7892051935
1004	Vishvesh	Cleaner	Vishu@ems	SAGARA	9480155585
1005	Ramesh	Accountant	Rameu@ems	SRINGERI	9423422342
1006	Suresh	Cleaner	Sureu@ems	BENGALURU	9878927304
1007	Vishnu	Decoter	Vishnu@ems	PUTTUR	8887382826

7 rows in set (0.001 sec)

```
MariaDB [ems]> SELECT COUNT(W_ID) FROM WORKER;
```

COUNT(W_ID)
7

1 row in set (0.001 sec)

B)TO SUM TOTAL FEE FOR ALL EVENTS.

SELECT SUM(E_FEE) AS "TOTAL AMOUNT" FROM EVENT;

Event Management Company Database

```
MariaDB [ems]> SELECT * FROM EVENT;
```

E_Id	E_Date	E_Place	E_Type	E_Fee	W_Id	A_Id	C_ID
11	2022-12-11	SULLIA	Marriage	300000	1001	1	441
22	2022-12-12	MYSURU	Engagment	50000	1001	2	443
33	2022-12-13	OOTY	Mehendi	100000	1004	1	445
44	2022-12-14	LEH	Engagment	60000	1003	1	442
55	2022-12-15	DHARWAD	Birthday	25000	1003	2	444
66	2022-12-16	MYSURU	Anniversary	40000	1005	2	441

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

```
MariaDB [ems]> SELECT SUM(E_Fee) AS "Total amount" FROM EVENT;
```

Total amount
575000

```
1 row in set (0.001 sec)
```

C) TO GET THE MINIMUM FEE IMPOSED ON ANY EVENT.

#SELECT MIN(E_FEE) AS MINIMUM_FEE_IMPOSED FROM EVENT;

```
MariaDB [ems]> SELECT * FROM EVENT;
```

E_Id	E_Date	E_Place	E_Type	E_Fee	W_Id	A_Id	C_ID
11	2022-12-11	SULLIA	Marriage	300000	1001	1	441
22	2022-12-12	MYSURU	Engagment	50000	1001	2	443
33	2022-12-13	OOTY	Mehendi	100000	1004	1	445
44	2022-12-14	LEH	Engagment	60000	1003	1	442
55	2022-12-15	DHARWAD	Birthday	25000	1003	2	444
66	2022-12-16	MYSURU	Anniversary	40000	1005	2	441

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

```
MariaDB [ems]> SELECT MIN(E_Fee) AS Minimum_Fee_Imposed FROM EVENT;
```

Minimum_Fee_Imposed
25000

```
1 row in set (0.001 sec)
```

D) TO GET THE MAXIMUM FEE IMPOSED ON ANY EVENT.

#SELECT MAX(E_FEE) AS MAX_FEE_IMPOSED FROM EVENT;

```
MariaDB [ems]> SELECT * FROM EVENT;
```

E_Id	E_Date	E_Place	E_Type	E_Fee	W_Id	A_Id	C_ID
11	2022-12-11	SULLIA	Marriage	300000	1001	1	441
22	2022-12-12	MYSURU	Engagment	50000	1001	2	443
33	2022-12-13	OOTY	Mehendi	100000	1004	1	445
44	2022-12-14	LEH	Engagment	60000	1003	1	442
55	2022-12-15	DHARWAD	Birthday	25000	1003	2	444
66	2022-12-16	MYSURU	Anniversary	40000	1005	2	441


```
MariaDB [ems]> SELECT MAX(E_Fee) AS Max_Fee_Imposed FROM EVENT;
+-----+
| Max_Fee_Imposed |
+-----+
|          300000 |
+-----+
1 row in set (0.001 sec)
```

9) FUNCTIONS:

THIS FUNCTION RETRIEVES LIST OF DAYS REMAINING FOR THE EVENTS FROM THE CURRENT DATE.

CREATING FUNCTION :

DELIMITER \$\$

CREATE FUNCTION NO_OF_DAYS_REMAINING_FOR_E(EVENT_DATE DATE) RETURNS INT DETERMINISTIC

BEGIN

DECLARE CUR_DATE DATE;

SELECT CURRENT_DATE() INTO CUR_DATE;

RETURN (EVENT_DATE)-(CUR_DATE);

END

\$\$

DELIMITER ;

```
MariaDB [ems]> DELIMITER $$
MariaDB [ems]> CREATE FUNCTION no_of_days_remaining_for_e(event_date date) RETURNS int DETERMINISTIC
-> BEGIN
-> DECLARE cur_date DATE;
-> Select current_date()into cur_date;
-> RETURN (event_date)-(cur_date);
-> END
-> $$
Query OK, 0 rows affected (0.015 sec)

MariaDB [ems]> DELIMITER ;
```

QUERY :

SELECT E_ID, E_TYPE AS EVENT, C_NAME AS CUSTOMER,
NO_OF_DAYS_REMAINING_FOR_E(E_DATE) AS 'DAYS LEFT' FROM EVENT JOIN CUSTOMER
WHERE EVENT.C_ID = CUSTOMER.C_ID;

Event Management Company Database

```
MariaDB [ems]> SELECT E_ID, E_TYPE AS EVENT, C_NAME AS CUSTOMER, NO_OF_DAYS_REMAINING_FOR_E(E_DATE) AS 'DAYS LEFT'
-> FROM EVENT JOIN CUSTOMER WHERE EVENT.C_ID = CUSTOMER.C_ID;
```

E_ID	EVENT	CUSTOMER	DAYS LEFT
11	Marriage	PRATHIBHA	11
22	Engagment	SNEHA	6
33	Mehendi	SAMPREETH	8
44	Engagment	ARPITH	2
55	Birthday	PREM	0
66	Anniversary	PRATHIBHA	10
78	Fest	PRATHIBHA	3

```
7 rows in set (0.002 sec)
```

10) TRIGGERS:

a).CREATE A TRIGGER WHICH WILL WORK BEFORE DELETION IN EMPLOYEE TABLE AND CREATE A DUPLICATE COPY OF THE RECORD IN ANOTHER TABLE EVENT_BACKUP.

BEFORE WRITING TRIGGER, WE NEED TO CREATE TABLE EVENT_BACKUP.

CREATE TABLE EVENT_BACKUP

```
(
  E_ID INT NOT NULL,
  E_DATE DATE,
  E_PLACE VARCHAR(20),
  E_TYPE VARCHAR(20),
  E_FEE INT NOT NULL,
  W_ID INT NOT NULL,
  A_ID INT NOT NULL,
  C_ID INT NOT NULL,
  PRIMARY KEY (E_ID),
  FOREIGN KEY (W_ID) REFERENCES WORKER(W_ID),
  FOREIGN KEY (A_ID) REFERENCES ADMIN(A_ID),
  FOREIGN KEY (C_ID) REFERENCES CUSTOMER(C_ID)
);
```

CREATING TRIGGER:

DELIMITER \$\$

CREATE TRIGGER BACKUP BEFORE DELETE ON EVENT

FOR EACH ROW

BEGIN

INSERT INTO EVENT_BACKUP

VALUES

(OLD.E_ID,OLD.E_DATE,OLD.E_PLACE,OLD.E_TYPE,OLD.E_FEE,OLD.W_ID,OLD.A_ID,OLD.C_ID);

END; \$\$

DELIMITER;

Event Management Company Database

```
MariaDB [ems]> delimiter $$
MariaDB [ems]> CREATE TRIGGER Backup BEFORE DELETE ON event
-> FOR EACH ROW
-> BEGIN
-> INSERT INTO event_backup
-> VALUES (OLD.e_id,OLD.e_date,OLD.e_place,OLD.e_type,OLD.e_fee,OLD.w_id,OLD.a_id,OLD.c_id);
-> END; $$
Query OK, 0 rows affected (0.015 sec)

MariaDB [ems]> delimiter;
```

Query :

DELETE FROM EVENT WHERE E_ID=11;

```
MariaDB [ems]> DELETE FROM event where e_id=11;
-> $$
Query OK, 1 row affected (0.013 sec)
```

AFTER EXECUTING THE QUERY:

```
MariaDB [ems]> select *from event;
-> $$
+-----+-----+-----+-----+-----+-----+-----+-----+
| E_ID | E_DATE   | E_PLACE | E_TYPE   | E_FEE | W_ID | A_ID | C_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 22   | 2022-11-25 | MYSURU  | ENGAGEMENT | 50000 | 1001 | 2   | 443 |
| 33   | 2022-11-26 | OOTY    | MEHENDI   | 100000 | 1004 | 1   | 445 |
| 44   | 2022-11-27 | LEH     | ENGAGEMENT | 60000 | 1003 | 1   | 442 |
| 55   | 2022-11-28 | DHARWAD | BIRTHDAY  | 25000 | 1003 | 2   | 444 |
| 66   | 2022-11-29 | MYSURU  | ANNIVERSARY | 40000 | 1005 | 2   | 441 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [ems]> select *from event_backup;
-> $$
+-----+-----+-----+-----+-----+-----+-----+-----+
| E_ID | E_DATE   | E_PLACE | E_TYPE   | E_FEE | W_ID | A_ID | C_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 11   | 2022-11-24 | SULLIA  | MARRIAGE | 300000 | 1001 | 1   | 441 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

b).THIS TRIGGER CHECKS ENTERED EVENT DATE WHETHER DATE IS AVAILABLE OR NOT (EVENT DATE SHOULD BE IN THE FUTURE NOT IN THE PAST) WHILE INSERTING INTO THE EVENT TABLE.

CREATING TRIGGER:

DELIMITER \$\$

CREATE TRIGGER CHECK_DATE BEFORE INSERT ON EVENT

FOR EACH ROW

```
BEGIN
    DECLARE CUR_DATE DATE;
    SELECT CURRENT_DATE() INTO CUR_DATE;
    IF NEW.E_DATE < CUR_DATE THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'ERROR: EVENT DATE IS NOT AVAILABLE';
    END IF;
END
$$
DELIMITER;
```

```
MariaDB [ems]> delimiter $$
MariaDB [ems]> CREATE TRIGGER Check_date BEFORE INSERT ON event
-> FOR EACH ROW
-> BEGIN
-> DECLARE cur_date DATE;
-> Select current_date() into cur_date;
-> IF NEW.e_date < cur_date THEN
-> SIGNAL SQLSTATE '45000'
-> SET MESSAGE_TEXT = 'ERROR: Event Date Is Not Available';
-> END IF;
-> END;
-> $$
Query OK, 0 rows affected (0.029 sec)
```

QUERY :

```
INSERT INTO EVENT VALUES(124,"2022-10-20","KOLAR","ENGAGEMENT",25000,123,825,123);
```

```
MariaDB [ems]> Insert into event values(124,"2022-10-20","Kolar","Engagement",25000,123,825,123);
ERROR 1644 (45000): ERROR: Event Date Is Not Available
```

11) CURSORS AND PROCEDURES :

THIS CURSOR CUREMAIL IS DECLARED IN PROCEDURE WORKEREMAILLIST THAT PULLS OUT EMAIL ADDRESS OF THE WORKERS FROM THE WORKERS TABLE.

CREATING PROCEDURE AND CURSOR:

```
DELIMITER $$
CREATE PROCEDURE WORKEREMAILLIST (INOUT EMAILIST VARCHAR(4000))
```

```
BEGIN
```

```
    DECLARE FINISHED INTEGER DEFAULT 0;
```

```
    DECLARE WORKER_EMAIL VARCHAR(100) DEFAULT "";
```

```
    DECLARE CUREMAIL CURSOR FOR SELECT W_EMAIL FROM WORKER;
```

```
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET FINISHED = 1;
```

```
    OPEN CUREMAIL;
```

```
    GETEMAIL: LOOP
```

```
        FETCH CUREMAIL INTO WORKER_EMAIL;
```

```
        IF FINISHED = 1 THEN
```

```
            LEAVE GETEMAIL;
```

```
        END IF;
```

```
        SET EMAILLIST = CONCAT(WORKER_EMAIL, ";", EMAILLIST);
```

```
    END LOOP GETEMAIL;
```

```
    CLOSE CUREMAIL;
```

```
END
```

```
$$
```

```
DELIMITER ;
```

```
MariaDB [ems]> CREATE OR REPLACE PROCEDURE WorkerEmailList (INOUT emailList varchar(4000))
-> BEGIN
-> DECLARE finished INTEGER DEFAULT 0;
-> DECLARE Worker_Email varchar(100) DEFAULT "";
-> DECLARE curEmail CURSOR FOR SELECT w_email FROM worker;
-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET finished = 1;
-> OPEN curEmail;
-> getEmail: LOOP
-> FETCH curEmail INTO Worker_Email;
-> IF finished = 1 THEN
-> LEAVE getEmail;
-> END IF;
-> SET emailList = CONCAT(Worker_Email, ";", emailList);
-> END LOOP getEmail;
-> CLOSE curEmail;
-> END
-> $$
Query OK, 0 rows affected (0.011 sec)
```


QUERY :

```
SET @WORKERS_EMAIL = "";
CALL WORKEREMAILLIST(@WORKERS_EMAIL);
SELECT @WORKERS_EMAIL;
```

```
MariaDB [ems]> SET @Workers_Email = "";
Query OK, 0 rows affected (0.000 sec)

MariaDB [ems]> CALL WorkerEmailList(@Workers_Email);
Query OK, 0 rows affected (0.019 sec)

MariaDB [ems]> SELECT @Workers_Email;
+-----+
| @Workers_Email |
+-----+
| Vishnu@ems;Sureu@ems;Rameu@ems;Vishu@ems;Lokeu@ems;Arviu@ems;Venku@ems; |
+-----+
1 row in set (0.000 sec)
```

12)VIEW :

CREATING A VIEW THAT PULLS OUT ALL THE WORKER NAME AND EVENT TYPE THEY ARE WORKING ON.

```
CREATE VIEW WORKEREVENT AS
SELECT W_NAME AS WORKER,E_TYPE AS EVENT
FROM WORKER,EVENT
WHERE WORKER.W_ID=EVENT.W_ID;
```

```
SELECT *FROM WORKEREVENT;
```

```
MariaDB [ems]> CREATE VIEW WorkerEvent AS
-> SELECT w_name AS Worker,e_type AS Event
-> FROM worker,event
-> WHERE worker.w_id=event.w_id;
Query OK, 0 rows affected (0.014 sec)
```

```
MariaDB [ems]> select *from WorkerEvent;
```

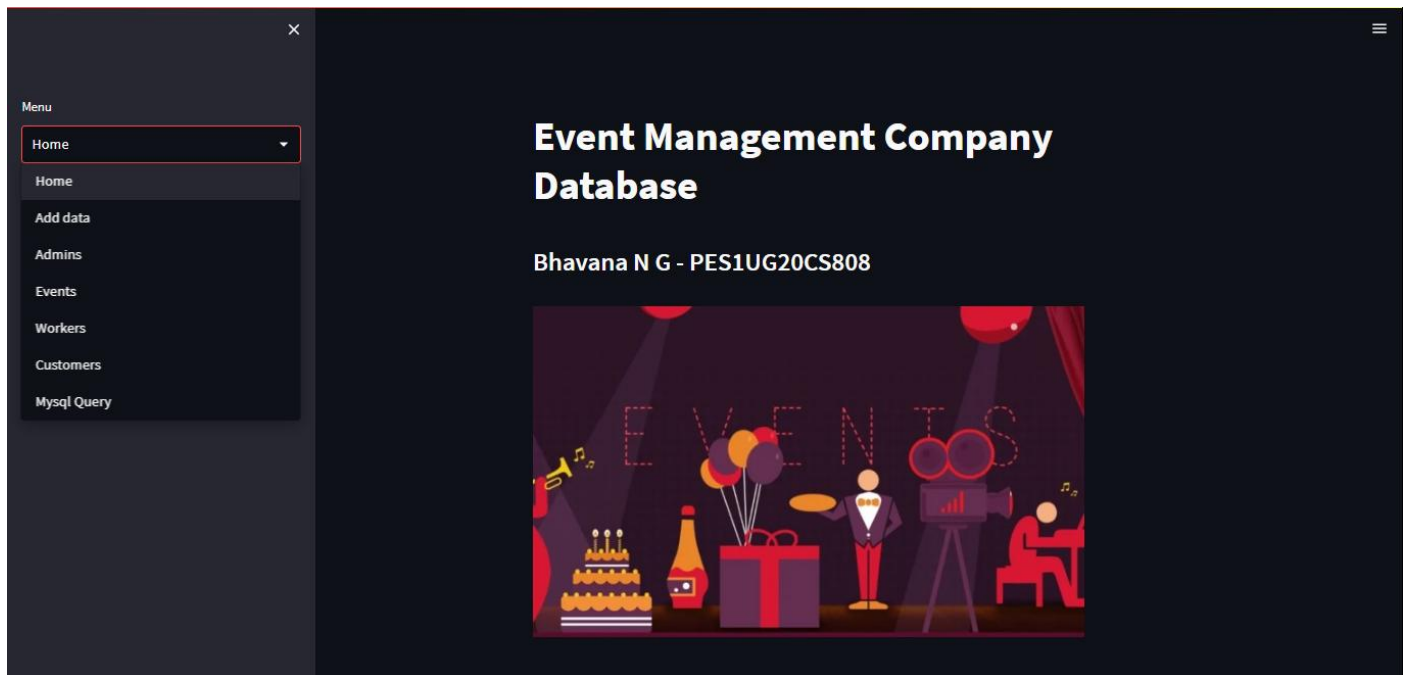
Worker	Event
Venkatesh	ENGAGEMENT
Vishvesh	MEHENDI
Lokesh	ENGAGEMENT
Lokesh	BIRTHDAY
Ramesh	ANNIVERSARY

5 rows in set (0.006 sec)

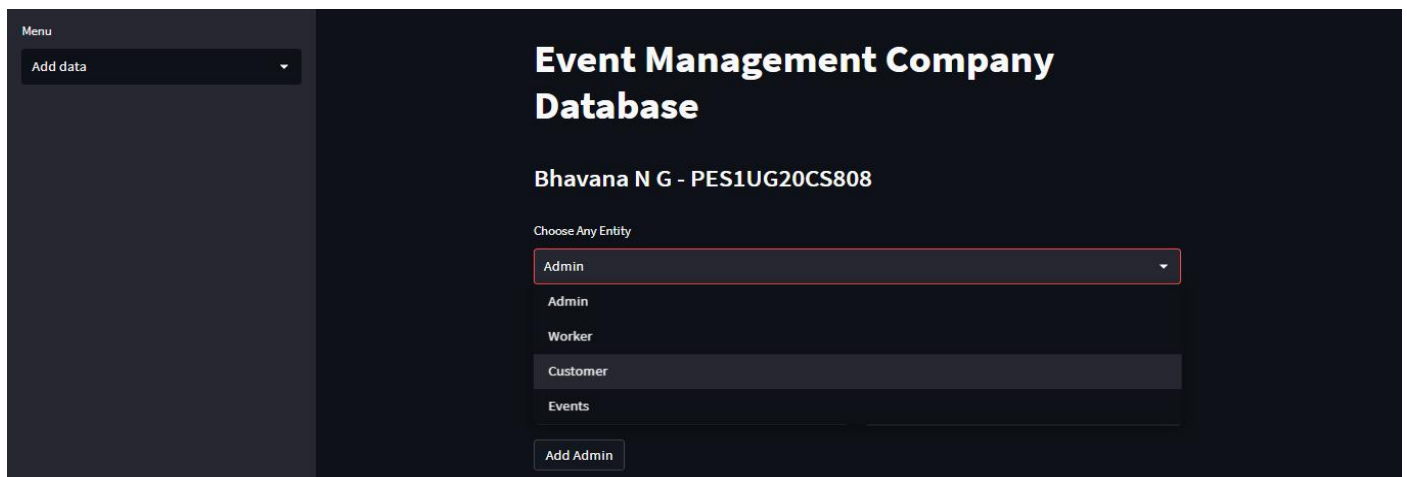
13)USER INTERFACE FOR THE EVENT MANAGEMENT COMPANY DATABASE.

- USED STREAMLIT FOR IMPLEMENTING THE FRONT END

HOME PAGE AND MENU :



SELECTING TABLE FOR ADDING DATA :



INSERTING INTO CUSTOMER TABLE:

Event Management Company Database

Bhavana N G - PES1UG20CS808

Choose Any Entity

Customer

Add Customer Details

Enter Customer Id: 555.00 - + Enter Customer Place: GOA

Enter Customer Name: JACK Enter Customer Phone: 9178945656

Add Customer

Added details for room number : 555.0

VIEW INSERTED DATA IN THE TABLE:

Event Management Company Database

Bhavana N G - PES1UG20CS808

View Customer details

View All Customers :

	c_id	c_name	c_place	c_phone
0	441	PRATHIBHA	MYSURU	7001931823
1	442	ARPITH	UDUPI	6633662728
2	443	SNEHA	SULLIA	7332211100
3	444	PREM	KOLAR	6112881826
4	445	SAMPREETH	BENGALURU	7117289117
5	555	JACK	GOA	9178945656

Do you want to UPDATE or DELETE a record ?

USER CAN SELECT THE OPTION BETWEEN UPDATE AND DELETE IN THE SAME PAGE BELOW THE VIEW TABLE AND THEN USER CAN SELECT ID OF SPECIFIC DATA FROM THE RESPECTIVE TABLE TO PERFORM OPERATION.

Event Management Company Database

UPDATING THE CUSTOMER DATA OF ID : 555 WHICH WE PREVIOUSLY INSERTED :

Menu

Customers

View Customer details

View All Customers :

Do you want to UPDATE or DELETE a record ?

Update

Choose Customer Id :

555

Do you want to update ::555

Customer Name :
JACK REACHER

Customer Place :
LOS ANGES

Customer Phone:
9454545487

Update Customer

Update Customer record : 555

AFTER THE UPDATION:

Menu

Customers

Event Management Company Database

Bhavana N G - PES1UG20CS808

View Customer details

View All Customers :

	c_id	c_name	c_place	c_phone
0	441	PRATHIBHA	MYSURU	7001931823
1	442	ARPITH	UDUPI	6633662728
2	443	SNEHA	SULLIA	7332211100
3	444	PREM	KOLAR	6112881826
4	445	SAMPREETH	BENGALURU	7117289117
5	555	JACK REACHE	LOS ANGES	9454545487

Event Management Company Database

DELETING THE SAME RECORD OF ID: 555 OF CUSTOMER TABLE WHICH WE RECENTLY UPDATED:

×

Menu

Customers

Bhavana N G - PES1UG20CS808

View Customer details

View All Customers :

Do you want to UPDATE or DELETE a record ?

Delete

Choose The Customer Id :

555

Do you want to delete ::555

Delete Customer Record

Customer Record has been Deleted Successfully

AFTER THE DELETION OF CUSTOMER ID::555 :

×

Menu

Customers

Bhavana N G - PES1UG20CS808

View Customer details

View All Customers :

	c_id	c_name	c_place	c_phone
0	441	PRATHIBHA	MYSURU	7001931823
1	442	ARPITH	UDUPI	6633662728
2	443	SNEHA	SULLIA	7332211100
3	444	PREM	KOLAR	6112881826
4	445	SAMPREETH	BENGALURU	7117289117

Do you want to UPDATE or DELETE a record ?

-

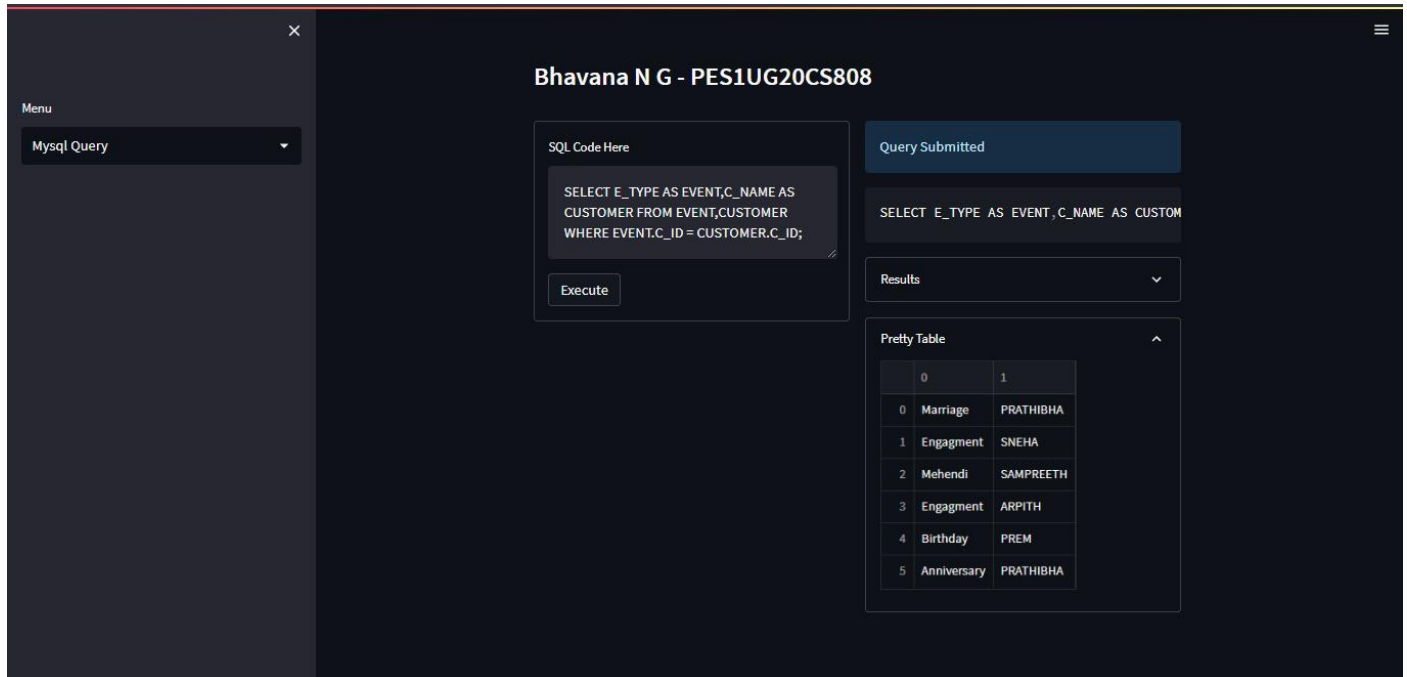
RECORD HAS BEEN DELETED.

Event Management Company Database

IN THE MENU THERE IS SPECIFIC WINDOW GIVEN TO EXECUTE ANY CUSTOM SQL QUERIES THAT USER WISHES TO EXECUTE.

EXCUTING SQL QUERY : WHICH WILL LIST OUT EVENT AND CUSTOMER ASSOCIATED WITH THAT EVENT

SELECT E_TYPE AS EVENT,C_NAME AS CUSTOMER FROM EVENT,CUSTOMER WHERE EVENT.C_ID = CUSTOMER.C_ID;



The screenshot displays a web application interface for executing SQL queries. The interface is divided into three main sections:

- Menu:** A dropdown menu on the left side, currently showing "Mysql Query".
- SQL Code Here:** A text area in the center where the SQL query is entered. The query is:

```
SELECT E_TYPE AS EVENT,C_NAME AS CUSTOMER FROM EVENT,CUSTOMER WHERE EVENT.C_ID = CUSTOMER.C_ID;
```

 Below the text area is an "Execute" button.
- Query Submitted:** A section on the right showing the submitted query:

```
SELECT E_TYPE AS EVENT , C_NAME AS CUSTOMER FROM EVENT,CUSTOMER WHERE EVENT.C_ID = CUSTOMER.C_ID;
```
- Results:** A section on the right showing the results of the query in a table format. The table has two columns: "0" and "1".

	0	1
0	Marriage	PRATHIBHA
1	Engagment	SNEHA
2	Mehendi	SAMPREETH
3	Engagment	ARPITH
4	Birthday	PREM
5	Anniversary	PRATHIBHA