DBMS Lab 4

Name: Paruchuri Anshul SRN: PES2UG23CS405

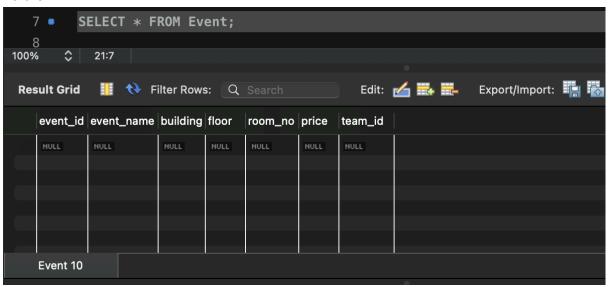
Section: G

Task 1

1. Insert a new event called "Al Hackathon" conducted by team 'T4' in 'Seminar Hall', floor '2', room 205, priced at 900.00

Answer:

Before

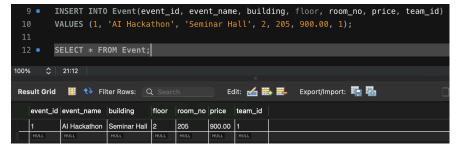


SQL Commands

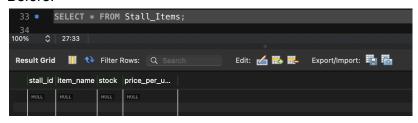
first add team t4 to Team table
INSERT INTO Team(team_id, team_name, team_type)
VALUES(1, 'T4', 'ORG');

add given values to Event table INSERT INTO Event(event_id, event_name, building, floor, room_no, price, team_id) VALUES (1, 'AI Hackathon', 'Seminar Hall', 2, 205, 900.00, 1);

After:



2. Update the quantity of 'Mushroom Risotto' in stall 'S1' to 25. Before:



SQL Command:

INSERT INTO Stall(stall_id, name)
VALUES (1, 'S1');

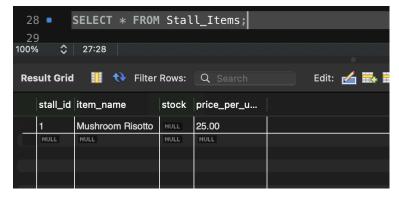
INSERT INTO Item(name)
VALUES ('Mushroom Risotto');

DESCRIBE Stall_Items;
ALTER TABLE Stall_Items
ADD COLUMN price_per_unit FLOAT(5,2);

INSERT INTO Stall_Items(stall_id, item_name, price_per_unit) VALUES (1, "Mushroom Risotto", 25);

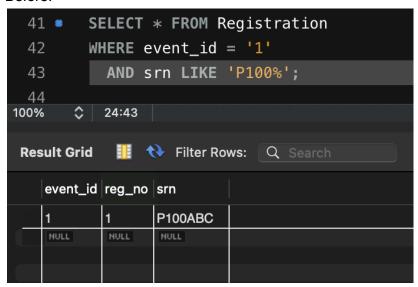
SELECT * FROM Stall_Items;

After:



3. Delete all registrations where the event ID is 'E1' and SRN starts with 'P100'

Before:



SQL Commands:

```
DESCRIBE Participant;
INSERT INTO Participant(srn, name, gender, department, semester)
VALUES ('P100ABC', 'Pranav', 'M', 'CSE', 5);
```

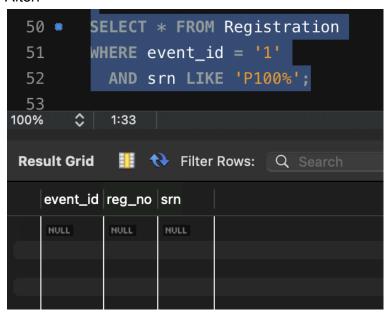
add dummy value INSERT INTO Registration(event_id, reg_no, srn) VALUES (1, 001, 'P100ABC');

SELECT * FROM Registration WHERE event_id = '1'
AND srn LIKE 'P100%';

now delete it DELETE FROM Registration WHERE event_id = '1' AND srn LIKE 'P100%';

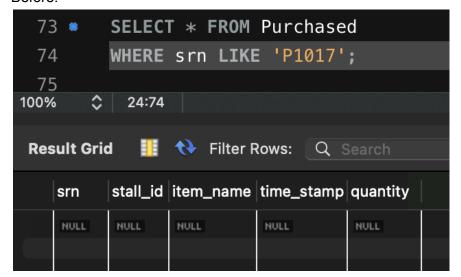
SELECT * FROM Registration WHERE event_id = '1'
AND srn LIKE 'P100%';

After:



4. Insert a new purchase: 'P1017' buys 3 'Fish Tacos' from stall 'S6' at '2025-07-10 14:00:00'

Before:



SQL Commands:

```
# add dummy value
INSERT INTO Participant(srn, name, gender, department, semester)
VALUES ('P1017', 'Rajesh', 'M', 'CSE', 5);
INSERT INTO Registration(event_id, reg_no, srn)
VALUES (1, 002, 'P1017');
```

add stall 6 and fish taco INSERT INTO Stall(stall_id, name) VALUES (6, 'S6');

INSERT INTO Item(name) VALUES ('Fish Taco');

INSERT INTO Stall_Items(stall_id, item_name, price_per_unit) VALUES (6, "Fish Taco", 50);

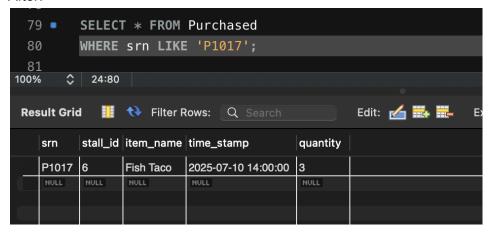
SELECT * FROM Stall_Items;

SELECT * FROM Purchased WHERE srn LIKE 'P1017';

INSERT INTO Purchased(srn, stall_id, item_name, time_stamp, quantity) Values('P1017', 6, 'Fish Taco', '2025-07-10 14:00:00', 3);

SELECT * FROM Purchased WHERE srn LIKE 'P1017';

After:



Task 2

5. Retrieve participants's SRN who are registered only for event 'E2' or 'E5', but not both (using SET operations).

Before:

```
123
        -- Event 5 registrations
        INSERT INTO Registration(event_id, reg_no, srn)
        VALUES (5, 006, 'P1004'),
               (5, 007, 'P1005'),
               (5, 008, 'P1002'); -- note: P1002 appears in both 2 & 5
130 • INSERT INTO Registration(event_id, reg_no, srn)
       VALUES (2, 009, 'P1001'),
              (2, 010, 'P1002'),
              (2, 011, 'P1003');
135 •
        SELECT * from REGISTRATION WHERE event_id = 2;
Result Grid III 💎 Filter Rows: Q Search
                                             Edit: 🚄 🏬 🏪 Export/Import: 🏗 📸
  reg_no event_id srn
               P1001
               P1002
P1003
  10
```

```
SQL Command:
SELECT srn
FROM Registration
WHERE event_id = '2'
AND srn NOT IN (
    SELECT srn FROM Registration WHERE event_id = '5'
)
UNION
SELECT srn
FROM Registration
WHERE event_id = '5'
AND srn NOT IN (
    SELECT srn FROM Registration WHERE event_id = '2'
);
```

After:

```
-- Retrieve participants's SRN who are registered only for event 'E2' or 'E5', but not both (using SET operations).

SELECT srn

SELECT srn

WHERE event_id = '2'

WHAPE event_id = '15'

WHON Registration WHERE event_id = '5'

WHERE event_id = '5'

AND SRN NOT IN (

SELECT srn

AND srn NOT IN (

SELECT srn FROM Registration

WHERE event_id = '5'

AND srn NOT IN (

SELECT srn FROM Registration WHERE event_id = '2'

);

SELECT srn FROM Registration WHERE event_id = '2'

**SELECT srn FROM Registration WHERE event_id = '2'

**SELECT srn FROM Registration WHERE event_id = '2'

**P1001

**P1004

**P1005

**P1004

**P1005

**P1006

**P1006

**P1006

**P1007

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**P1007

*
```

6. Display all participants and the names of all their visitors(if any) with a count of visitors.

SQL Command:

SELECT

p.srn,

p.name AS participant_name,

v.name AS visitor name,

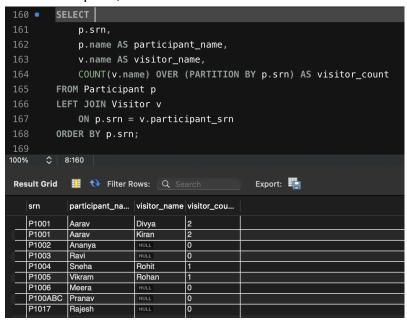
COUNT(v.name) OVER (PARTITION BY p.srn) AS visitor_count

FROM Participant p

LEFT JOIN Visitor v

ON p.srn = v.participant_srn

ORDER BY p.srn;



7. List events that have equal number of male and female participants SQL Commands:

```
SELECT e.event_id, e.event_name
FROM Event e
JOIN Registration r ON e.event_id = r.event_id
JOIN Participant p ON r.srn = p.srn
GROUP BY e.event_id, e.event_name
HAVING SUM(p.gender = 'M') = SUM(p.gender = 'F');
```

 Display each event's name and a binary indicator of whether it occurred after the Golden Jubilee (year > 2047)
 SQL Commands:

```
SELECT
    e.event_name,
    CASE
     WHEN f.year > 2047 THEN 1
     ELSE 0
     END AS after_golden_jubilee
FROM Event e
JOIN Team t ON e.team_id = t.team_id
JOIN Fest f ON t.fest_id = f.fest_id;
```

```
\underline{ \texttt{INSERT}} \ \ \underline{ \texttt{INTO}} \ \ \mathsf{Fest}(\underline{\texttt{fest}}\underline{\texttt{id}}, \ \ \mathsf{fest}\underline{\texttt{name}}, \ \ \mathsf{year}, \ \ \mathsf{head}\underline{\texttt{team}}\underline{\texttt{id}})
               VALUES (1, 'TechFest', 2045, 1),
(2, 'FutureFest', 2050, 2);
192 • UPDATE Team SET fest_id = 1 WHERE team_id = 1;
193 • UPDATE Team SET fest_id = 2 WHERE team_id = 2;
194 • UPDATE Team SET fest_id = 2 WHERE team_id = 3;
 196 • SELECT
                        e.event_name,
                        WHEN f.year > 2047 THEN 1
                               ELSE 0
                      END AS after_golden_jubilee
              FROM Event e
               JOIN Team t ON e.team_id = t.team_id

JOIN Fest f ON t.fest_id = f.fest_id;
100% $ 8:196
                                                                                        Export: 📳
 Result Grid ## Silter Rows: Q Search
      event name
                                        after_golden_jubil...
     Al Hackathon
Robotics Expo
Code Sprint
  Code Sprint
Cybersecurity Workshop 1
Math Quiz 1
Golden Jubilee Special 1
      Result 36
```