DBMS: LAB 4

DML (Data Manipulation Language) & JOIN Commands
University Fest Management System

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Section: G
TASK 1:

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

```
mysql> select * from event
    -> ;
+----------+----------------------+----------------+-------+---------+--------+---------+
| event_id | event_name           | building       | floor | room_no | price  | team_id |
+----------+----------------------+----------------+-------+---------+--------+---------+
| E1       | Adventure Trek       | Outdoors       | 1     |     101 | 200.00 | T3      |
| E10      | Music Concert        | Amphi%he@ter   | 2     |     202 | 120.00 | T6      |
| E11      | Art Workshop         | M@in Building  | 1     |     101 | 150.00 | T6      |
| E12      | Film Screening       | Theater        | 2     |     203 | 500.00 | T6      |
| E13      | Traditional Dance wars | @udi%orium   | 1     |     102 | 850.00 | T8      |
| E14      | Singing Contest      | M@in Building  | 2     |     203 | 500.00 | T8      |
| E15      | Fashion Exhibition   | Sports Comp%ex | 1     |     103 | 120.00 | T8      |
| E16      | Poetry Slam          | Amphi%he@ter   | 2     |     201 | 100.00 | T8      |
| E17      | Quiz Competition     | @udi%orium     | 1     |     102 | 100.00 | T9      |
| E18      | Tech Talk            | Seminar Hall   | 1     |     101 | 200.00 | T9      |
| E19      | Web Design Contest   | @Computer%Lab% | 2     |     202 | 890.00 | T9      |
| E2       | Paintball Tournament | Sports Comp%ex | 2     |     201 | 150.00 | T3      |
| E20      | Hackathon            | M@in Building  | 1     |     103 | 650.00 | T9      |
| E21      | Stage Setup          | M@in Building  | 2     |     203 | 900.00 | T12     |
| E22      | Sound and Lighting   | @udi%orium     | 1     |     102 | 250.00 | T12     |
| E23      | Event Coordination   | Sports Comp%ex | 1     |     103 | 500.00 | T12     |
| E24      | Volunteer Management | M@in Building  | 3     |     303 | 600.00 | T12     |
| E25      | Baking Competition   | Kitchen        | 1     |     101 | 850.00 | T14     |
| E26      | Food Tasting         | Cafeteria      | 2     |     202 | 500.00 | T14     |
| E27      | Cooking Workshop     | M@in Building  | 1     |     102 | 120.00 | T14     |
| E29      | Short Film Screening | Theater        | 1     |     103 | 400.00 | T15     |
| E3       | Escape Room Challenge | M@in Building | 1     |     102 | 120.00 | T3      |
| E30      | Literary Debate      | Seminar Hall   | 1     |     101 | 550.00 | T15     |
| E31      | Writing Competition  | Library        | 2     |     202 | 950.00 | T15     |
| E32      | Poetry Recitation    | Amphi%he@ter   | 1     |     102 | 100.00 | T15     |
| E4       | Photography Contest  | @udi%orium     | 2     |     202 | 850.00 | T4      |
| E5       | Code Jam             | @Computer%Lab% | 1     |     101 | 100.00 | T4      |
| E6       | Robot Wars           | Robotics Arena | 1     |     201 | 100.00 | T4      |
| E7       | Tech Expo            | M@in Building  | 2     |     203 | 550.00 | T4      |
| E8       | Gaming Tournament    | Sports Comp%ex | 1     |     103 | 800.00 | T4      |
| E9       | Drama Play           | @udi%orium     | 1     |     102 | 100.00 | T6      |
+----------+----------------------+----------------+-------+---------+--------+---------+
31 rows in set (0.00 sec)
```

```
mysql> INSERT INTO event (event_id, event_name,building, floor, room_no, price, team_id)
    -> VALUES ('E33', 'AI Hackathon', 'Seminar Hall', '2', '205', '900.00', 'T4');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from event
    -> ;
+----------+-----------------------+----------------+-------+---------+--------+---------+
| event_id | event_name            | building       | floor | room_no | price  | team_id |
+----------+-----------------------+----------------+-------+---------+--------+---------+
| E1       | Adventure Trek        | Outdoors       | 1     |     101 | 200.00 | T3      |
| E10      | Music Concert         | Amphi%he@ter   | 2     |     202 | 120.00 | T6      |
| E11      | Art Workshop          | M@in Building  | 1     |     101 | 150.00 | T6      |
| E12      | Film Screening        | Theater        | 2     |     203 | 500.00 | T6      |
| E13      | Traditional Dance wars| @udi%orium     | 1     |     102 | 850.00 | T8      |
| E14      | Singing Contest       | M@in Building  | 2     |     203 | 500.00 | T8      |
| E15      | Fashion Exhibition    | Sports Comp%ex | 1     |     103 | 120.00 | T8      |
| E16      | Poetry Slam           | Amphi%he@ter   | 2     |     201 | 100.00 | T8      |
| E17      | Quiz Competition      | @udi%orium     | 1     |     102 | 100.00 | T9      |
| E18      | Tech Talk             | Seminar Hall   | 1     |     101 | 200.00 | T9      |
| E19      | Web Design Contest    | @Computer%Lab% | 2     |     202 | 890.00 | T9      |
| E2       | Paintball Tournament  | Sports Comp%ex | 2     |     201 | 150.00 | T3      |
| E20      | Hackathon             | M@in Building  | 1     |     103 | 650.00 | T9      |
| E21      | Stage Setup           | M@in Building  | 2     |     203 | 900.00 | T12     |
| E22      | Sound and Lighting    | @udi%orium     | 1     |     102 | 250.00 | T12     |
| E23      | Event Coordination    | Sports Comp%ex | 1     |     103 | 500.00 | T12     |
| E24      | Volunteer Management  | M@in Building  | 3     |     303 | 600.00 | T12     |
| E25      | Baking Competition    | Kitchen        | 1     |     101 | 850.00 | T14     |
| E26      | Food Tasting          | Cafeteria      | 2     |     202 | 500.00 | T14     |
| E27      | Cooking Workshop      | M@in Building  | 1     |     102 | 120.00 | T14     |
| E29      | Short Film Screening  | Theater        | 1     |     103 | 400.00 | T15     |
| E3       | Escape Room Challenge | M@in Building  | 1     |     102 | 120.00 | T3      |
| E30      | Literary Debate       | Seminar Hall   | 1     |     101 | 550.00 | T15     |
| E31      | Writing Competition   | Library        | 2     |     202 | 950.00 | T15     |
| E32      | Poetry Recitation     | Amphi%he@ter   | 1     |     102 | 100.00 | T15     |
| E33      | AI Hackathon          | Seminar Hall   | 2     |     205 | 900.00 | T4      |
| E4       | Photography Contest   | @udi%orium     | 2     |     202 | 850.00 | T4      |
| E5       | Code Jam              | @Computer%Lab% | 1     |     101 | 100.00 | T4      |
| E6       | Robot Wars            | Robotics Arena | 1     |     201 | 100.00 | T4      |
| E7       | Tech Expo             | M@in Building  | 2     |     203 | 550.00 | T4      |
| E8       | Gaming Tournament     | Sports Comp%ex | 1     |     103 | 800.00 | T4      |
| E9       | Drama Play            | @udi%orium     | 1     |     102 | 100.00 | T6      |
+----------+-----------------------+----------------+-------+---------+--------+---------+
32 rows in set (0.00 sec)
```

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

```
mysql> select * from stall_items;
+----------+---------------------------+----------------+----------------+
| stall_id | item_name                 | price_per_unit | total_quantity |
+----------+---------------------------+----------------+----------------+
| S1       | Caprese Salad             |         249.00 |             35 |
| S1       | Classic Caesar Salad      |         349.50 |             45 |
| S1       | Margherita Pizza          |         350.00 |             25 |
| S1       | Mushroom Risotto          |         359.00 |             30 |
| S1       | Spinach and Feta Omelette |         259.00 |             40 |
| S1       | Vegetable Pad Thai        |         329.00 |             25 |
| S1       | Vegetable Stir-Fry        |         299.00 |             30 |
| S1       | Veggie Wrap               |         399.00 |             50 |
| S2       | Chicken Noodle Soup       |         529.00 |             30 |
| S2       | Fish Tacos                |         449.00 |             25 |
| S2       | Mushroom Risotto          |         387.00 |             28 |
| S2       | Vegetable Stir-Fry        |         322.00 |             28 |
| S2       | Veggie Wrap               |         429.00 |             40 |
| S3       | Chicken Noodle Soup       |         564.50 |             25 |
| S3       | Fish Tacos                |         481.50 |             23 |
| S3       | Mushroom Risotto          |         349.00 |             35 |
| S3       | Spinach and Feta Omelette |         282.50 |             38 |
| S3       | Vegetable Stir-Fry        |         293.00 |             35 |
| S3       | Veggie Wrap               |         379.00 |             55 |
| S4       | BBQ Chicken Sandwich      |         489.00 |             20 |
| S4       | Chicken Noodle Soup       |         519.75 |             35 |
| S4       | Fish Tacos                |         470.00 |             28 |
| S4       | Grilled Steak             |         573.75 |             17 |
| S4       | Shrimp Scampi             |         419.00 |             20 |
| S5       | Classic Caesar Salad      |         349.25 |             50 |
| S5       | Margherita Pizza          |         349.00 |             25 |
| S5       | Mushroom Risotto          |         360.00 |             38 |
| S5       | Vegetable Pad Thai        |         324.25 |             28 |
| S5       | Veggie Wrap               |         400.00 |             60 |
| S6       | Chicken Noodle Soup       |         550.00 |             28 |
| S6       | Fish Tacos                |         470.00 |             26 |
| S6       | Grilled Steak             |         622.50 |             14 |
| S6       | Shrimp Scampi             |         412.75 |             22 |
| S7       | BBQ Chicken Sandwich      |         510.00 |             16 |
| S7       | Classic Caesar Salad      |         382.50 |             38 |
| S7       | Fish Tacos                |         450.00 |             30 |
| S7       | Margherita Pizza          |         375.00 |             23 |
| S7       | Mushroom Risotto          |         378.50 |             32 |
| S7       | Mutton Stroganoff         |         594.50 |             18 |
| S7       | Vegetable Stir-Fry        |         318.50 |             32 |
| S7       | Veggie Wrap               |         412.50 |             45 |
| S8       | BBQ Chicken Sandwich      |         490.00 |             24 |
| S8       | Chicken Noodle Soup       |         525.00 |             32 |
| S8       | Fish Tacos                |         450.00 |             30 |
| S8       | Grilled Steak             |         589.00 |             15 |
| S8       | Shrimp Scampi             |         420.00 |             24 |
| S9       | Bacon-Wrapped Shrimp      |         589.00 |             15 |
| S9       | BBQ Chicken Sandwich      |         524.50 |             18 |
| S9       | Chicken Noodle Soup       |         590.00 |             32 |
```

```
mysql> UPDATE stall_items SET total_quantity = 25 WHERE stall_id = 'S1'  AND item_name = 'Mushroom Risotto';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1  Changed: 0  Warnings: 0
```

```
mysql> select * from stall_items;
+----------+---------------------------+----------------+----------------+
| stall_id | item_name                 | price_per_unit | total_quantity |
+----------+---------------------------+----------------+----------------+
| S1       | Caprese Salad             |         249.00 |             35 |
| S1       | Classic Caesar Salad      |         349.50 |             45 |
| S1       | Margherita Pizza          |         350.00 |             25 |
| S1       | Mushroom Risotto          |         359.00 |             25 |
| S1       | Spinach and Feta Omelette |         259.00 |             40 |
| S1       | Vegetable Pad Thai        |         329.00 |             25 |
| S1       | Vegetable Stir-Fry        |         299.00 |             30 |
| S1       | Veggie Wrap               |         399.00 |             50 |
| S2       | Chicken Noodle Soup       |         529.00 |             30 |
| S2       | Fish Tacos                |         449.00 |             25 |
| S2       | Mushroom Risotto          |         387.00 |             28 |
| S2       | Vegetable Stir-Fry        |         322.00 |             28 |
| S2       | Veggie Wrap               |         429.00 |             40 |
| S3       | Chicken Noodle Soup       |         564.50 |             25 |
| S3       | Fish Tacos                |         481.50 |             23 |
| S3       | Mushroom Risotto          |         349.00 |             35 |
| S3       | Spinach and Feta Omelette |         282.50 |             38 |
| S3       | Vegetable Stir-Fry        |         293.00 |             35 |
| S3       | Veggie Wrap               |         379.00 |             55 |
| S4       | BBQ Chicken Sandwich      |         489.00 |             20 |
| S4       | Chicken Noodle Soup       |         519.75 |             35 |
| S4       | Fish Tacos                |         470.00 |             28 |
| S4       | Grilled Steak             |         573.75 |             17 |
| S4       | Shrimp Scampi             |         419.00 |             20 |
| S5       | Classic Caesar Salad      |         349.25 |             50 |
| S5       | Margherita Pizza          |         349.00 |             25 |
| S5       | Mushroom Risotto          |         360.00 |             38 |
| S5       | Vegetable Pad Thai        |         324.25 |             28 |
| S5       | Veggie Wrap               |         400.00 |             60 |
| S6       | Chicken Noodle Soup       |         550.00 |             28 |
| S6       | Fish Tacos                |         470.00 |             26 |
| S6       | Grilled Steak             |         622.50 |             14 |
| S6       | Shrimp Scampi             |         412.75 |             22 |
| S7       | BBQ Chicken Sandwich      |         510.00 |             16 |
| S7       | Classic Caesar Salad      |         382.50 |             38 |
| S7       | Fish Tacos                |         450.00 |             30 |
| S7       | Margherita Pizza          |         375.00 |             23 |
| S7       | Mushroom Risotto          |         378.50 |             32 |
| S7       | Mutton Stroganoff         |         594.50 |             18 |
| S7       | Vegetable Stir-Fry        |         318.50 |             32 |
| S7       | Veggie Wrap               |         412.50 |             45 |
| S8       | BBQ Chicken Sandwich      |         490.00 |             24 |
| S8       | Chicken Noodle Soup       |         525.00 |             32 |
| S8       | Fish Tacos                |         450.00 |             30 |
| S8       | Grilled Steak             |         589.00 |             15 |
| S8       | Shrimp Scampi             |         420.00 |             24 |
```

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

```
mysql> select * from registration
    -> ;
+----------+-------+-----------------+
| event_id | SRN   | registration_id |
+----------+-------+-----------------+
| E1       | P1001 | R1              |
| E1       | P1002 | R2              |
| E1       | P1003 | R3              |
| E1       | P1004 | R4              |
| E1       | P1005 | R5              |
| E1       | P1006 | R1              |
| E1       | P1008 | R5              |
| E1       | P1017 | R2              |
| E1       | P1022 | R3              |
| E1       | P1025 | R4              |
| E10      | P1001 | R49             |
| E10      | P1005 | R50             |
| E10      | P1021 | R46             |
| E10      | P1022 | R47             |
| E10      | P1023 | R48             |
| E10      | P1024 | R49             |
| E10      | P1025 | R50             |
| E11      | P1001 | R51             |
| E11      | P1002 | R52             |
| E11      | P1003 | R53             |
| E11      | P1004 | R54             |
| E11      | P1005 | R55             |
| E11      | P1021 | R56             |
| E11      | P1022 | R57             |
| E11      | P1023 | R58             |
| E11      | P1024 | R59             |
| E11      | P1025 | R60             |
```

```
mysql> DELETE FROM registration WHERE event_id = 'E1' AND SRN LIKE 'P100%';
Query OK, 7 rows affected (0.01 sec)
```

```
mysql> select * from registration
    -> ;
+----------+-------+-----------------+
| event_id | SRN   | registration_id |
+----------+-------+-----------------+
| E1       | P1017 | R2              |
| E1       | P1022 | R3              |
| E1       | P1025 | R4              |
| E10      | P1001 | R49             |
| E10      | P1005 | R50             |
| E10      | P1021 | R46             |
| E10      | P1022 | R47             |
| E10      | P1023 | R48             |
| E10      | P1024 | R49             |
| E10      | P1025 | R50             |
| E11      | P1001 | R51             |
| E11      | P1002 | R52             |
| E11      | P1003 | R53             |
| E11      | P1004 | R54             |
| E11      | P1005 | R55             |
| E11      | P1021 | R56             |
| E11      | P1022 | R57             |
| E11      | P1023 | R58             |
| E11      | P1024 | R59             |
| E11      | P1025 | R60             |
| E12      | P1006 | R56             |
| E12      | P1007 | R57             |
| E12      | P1008 | R58             |
| E12      | P1009 | R59             |
```

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

```
mysql> select * from purchased;
+-------+----------+---------------------------+---------------------+----------+
| SRN   | stall_id | item_name                 | timestamp           | quantity |
+-------+----------+---------------------------+---------------------+----------+
| P1001 | S1       | Mushroom Risotto          | 2023-04-15 13:00:05 |        3 |
| P1001 | S1       | Veggie Wrap               | 2023-04-15 12:00:00 |        2 |
| P1001 | S5       | Classic Caesar Salad      | 2022-04-17 10:10:00 |        2 |
| P1001 | S5       | Veggie Wrap               | 2022-04-17 10:10:00 |        3 |
| P1002 | S1       | Caprese Salad             | 2023-04-16 13:33:00 |        3 |
| P1002 | S1       | Classic Caesar Salad      | 2023-04-16 13:33:00 |        3 |
| P1002 | S9       | Margherita Pizza          | 2023-04-16 12:30:00 |        1 |
| P1002 | S9       | Vegetable Stir-Fry        | 2023-04-16 17:19:00 |        5 |
| P1003 | S7       | Fish Tacos                | 2022-04-19 11:25:00 |        2 |
| P1003 | S7       | Veggie Wrap               | 2022-04-19 14:00:00 |        1 |
| P1003 | S8       | Fish Tacos                | 2022-04-19 12:25:00 |        1 |
| P1003 | S8       | Shrimp Scampi             | 2022-04-19 12:25:00 |        2 |
| P1004 | S7       | Margherita Pizza          | 2022-04-19 11:00:00 |        2 |
| P1004 | S7       | Veggie Wrap               | 2022-04-19 11:00:00 |        4 |
| P1005 | S2       | Fish Tacos                | 2023-04-16 10:30:00 |        4 |
| P1005 | S3       | Chicken Noodle Soup       | 2023-04-16 11:05:00 |        2 |
| P1005 | S3       | Fish Tacos                | 2023-04-16 12:15:00 |        5 |
| P1005 | S4       | BBQ Chicken Sandwich      | 2022-04-17 13:20:00 |        2 |
| P1005 | S4       | Chicken Noodle Soup       | 2022-04-17 13:20:00 |        1 |
| P1005 | S4       | Fish Tacos                | 2022-04-17 12:50:00 |        3 |
| P1005 | S4       | Grilled Steak             | 2022-04-17 14:30:00 |        2 |
| P1005 | S4       | Shrimp Scampi             | 2022-04-17 14:30:00 |        1 |
| P1005 | S9       | Mutton Stroganoff         | 2023-04-16 13:35:00 |        1 |
| P1006 | S1       | Margherita Pizza          | 2023-04-16 14:50:00 |        1 |
| P1006 | S2       | Fish Tacos                | 2023-04-16 15:55:00 |        1 |
| P1006 | S9       | Vegetable Stir-Fry        | 2023-04-16 10:45:00 |        2 |
| P1008 | S4       | BBQ Chicken Sandwich      | 2022-04-17 15:10:00 |        1 |
| P1008 | S5       | Mushroom Risotto          | 2022-04-17 15:00:00 |        3 |
| P1008 | S5       | Vegetable Pad Thai        | 2022-04-17 15:00:00 |        1 |
| P1008 | S6       | Fish Tacos                | 2022-04-17 10:45:00 |        3 |
| P1008 | S6       | Grilled Steak             | 2022-04-17 10:45:00 |        2 |
| P1010 | S4       | Chicken Noodle Soup       | 2022-04-17 13:05:00 |        3 |
| P1010 | S5       | Mushroom Risotto          | 2022-04-17 17:15:00 |        1 |
| P1010 | S6       | Shrimp Scampi             | 2022-04-17 17:20:00 |        2 |
| P1010 | S9       | Mutton Stroganoff         | 2023-04-16 13:10:00 |        1 |
| P1010 | S9       | Spinach and Feta Omelette | 2023-04-16 13:10:00 |        1 |
| P1017 | S1       | Classic Caesar Salad      | 2023-04-16 10:05:00 |        3 |
| P1017 | S1       | Spinach and Feta Omelette | 2023-04-16 10:05:00 |        2 |
| P1017 | S2       | Fish Tacos                | 2023-04-16 16:00:00 |        5 |
| P1017 | S3       | Chicken Noodle Soup       | 2023-04-16 12:25:00 |        3 |
| P1017 | S3       | Vegetable Stir-Fry        | 2023-04-16 12:25:00 |        4 |
| P1017 | S9       | Bacon-Wrapped Shrimp      | 2023-04-16 17:30:00 |        2 |
| P1024 | S4       | Chicken Noodle Soup       | 2022-04-17 13:15:00 |        1 |
| P1024 | S5       | Vegetable Pad Thai        | 2022-04-17 15:00:00 |        2 |
| P1024 | S6       | Grilled Steak             | 2022-04-17 11:05:00 |        2 |
| P1024 | S6       | Shrimp Scampi             | 2022-04-17 11:05:00 |        3 |
+-------+----------+---------------------------+---------------------+----------+
46 rows in set (0.00 sec)
```

```
mysql> INSERT INTO purchased (SRN, stall_id, item_name, timestamp, quantity)
    -> VALUES ('P1017', 'S6', 'Fish Tacos', '2025-07-10 14:00:00', 3);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from purchased;
+-------+----------+---------------------------+---------------------+----------+
| SRN   | stall_id | item_name                 | timestamp           | quantity |
+-------+----------+---------------------------+---------------------+----------+
| P1001 | S1       | Mushroom Risotto          | 2023-04-15 13:00:05 |        3 |
| P1001 | S1       | Veggie Wrap               | 2023-04-15 12:00:00 |        2 |
| P1001 | S5       | Classic Caesar Salad      | 2022-04-17 10:10:00 |        2 |
| P1001 | S5       | Veggie Wrap               | 2022-04-17 10:10:00 |        3 |
| P1002 | S1       | Caprese Salad             | 2023-04-16 13:33:00 |        3 |
| P1002 | S1       | Classic Caesar Salad      | 2023-04-16 13:33:00 |        3 |
| P1002 | S9       | Margherita Pizza          | 2023-04-16 12:30:00 |        1 |
| P1002 | S9       | Vegetable Stir-Fry        | 2023-04-16 17:19:00 |        5 |
| P1003 | S7       | Fish Tacos                | 2022-04-19 11:25:00 |        2 |
| P1003 | S7       | Veggie Wrap               | 2022-04-19 14:00:00 |        1 |
| P1003 | S8       | Fish Tacos                | 2022-04-19 12:25:00 |        1 |
| P1003 | S8       | Shrimp Scampi             | 2022-04-19 12:25:00 |        2 |
| P1004 | S7       | Margherita Pizza          | 2022-04-19 11:00:00 |        2 |
| P1004 | S7       | Veggie Wrap               | 2022-04-19 11:00:00 |        4 |
| P1005 | S2       | Fish Tacos                | 2023-04-16 10:30:00 |        4 |
| P1005 | S3       | Chicken Noodle Soup       | 2023-04-16 11:05:00 |        2 |
| P1005 | S3       | Fish Tacos                | 2023-04-16 12:15:00 |        5 |
| P1005 | S4       | BBQ Chicken Sandwich      | 2022-04-17 13:20:00 |        2 |
| P1005 | S4       | Chicken Noodle Soup       | 2022-04-17 13:20:00 |        1 |
| P1005 | S4       | Fish Tacos                | 2022-04-17 12:50:00 |        3 |
| P1005 | S4       | Grilled Steak             | 2022-04-17 14:30:00 |        2 |
| P1005 | S4       | Shrimp Scampi             | 2022-04-17 14:30:00 |        1 |
| P1005 | S9       | Mutton Stroganoff         | 2023-04-16 13:35:00 |        1 |
| P1006 | S1       | Margherita Pizza          | 2023-04-16 14:50:00 |        1 |
| P1006 | S2       | Fish Tacos                | 2023-04-16 15:55:00 |        1 |
| P1006 | S9       | Vegetable Stir-Fry        | 2023-04-16 10:45:00 |        2 |
| P1008 | S4       | BBQ Chicken Sandwich      | 2022-04-17 15:10:00 |        1 |
| P1008 | S5       | Mushroom Risotto          | 2022-04-17 15:00:00 |        3 |
| P1008 | S5       | Vegetable Pad Thai        | 2022-04-17 15:00:00 |        1 |
| P1008 | S6       | Fish Tacos                | 2022-04-17 10:45:00 |        3 |
| P1008 | S6       | Grilled Steak             | 2022-04-17 10:45:00 |        2 |
| P1010 | S4       | Chicken Noodle Soup       | 2022-04-17 13:05:00 |        3 |
| P1010 | S5       | Mushroom Risotto          | 2022-04-17 17:15:00 |        1 |
| P1010 | S6       | Shrimp Scampi             | 2022-04-17 17:20:00 |        2 |
| P1010 | S9       | Mutton Stroganoff         | 2023-04-16 13:10:00 |        1 |
| P1010 | S9       | Spinach and Feta Omelette | 2023-04-16 13:10:00 |        1 |
| P1017 | S1       | Classic Caesar Salad      | 2023-04-16 10:05:00 |        3 |
| P1017 | S1       | Spinach and Feta Omelette | 2023-04-16 10:05:00 |        2 |
| P1017 | S2       | Fish Tacos                | 2023-04-16 16:00:00 |        5 |
| P1017 | S3       | Chicken Noodle Soup       | 2023-04-16 12:25:00 |        3 |
| P1017 | S3       | Vegetable Stir-Fry        | 2023-04-16 12:25:00 |        4 |
| P1017 | S6       | Fish Tacos                | 2025-07-10 14:00:00 |        3 |
| P1017 | S9       | Bacon-Wrapped Shrimp      | 2023-04-16 17:30:00 |        2 |
| P1024 | S4       | Chicken Noodle Soup       | 2022-04-17 13:15:00 |        1 |
| P1024 | S5       | Vegetable Pad Thai        | 2022-04-17 15:00:00 |        2 |
| P1024 | S6       | Grilled Steak             | 2022-04-17 11:05:00 |        2 |
| P1024 | S6       | Shrimp Scampi             | 2022-04-17 11:05:00 |        3 |
+-------+----------+---------------------------+---------------------+----------+
47 rows in set (0.00 sec)
```

TASK 2:
5. Retrieve participants's SRN who are registered only for event 'E2' or 'E5', but not both (using SET operations).

```
mysql> select * from registration
    -> ;
+----------+--------+------------------+
| event_id | SRN    | registration_id  |
+----------+--------+------------------+
| E1       | P1017  | R2               |
| E1       | P1022  | R3               |
| E1       | P1025  | R4               |
| E10      | P1001  | R49              |
| E10      | P1005  | R50              |
| E10      | P1021  | R46              |
| E10      | P1022  | R47              |
| E10      | P1023  | R48              |
| E10      | P1024  | R49              |
| E10      | P1025  | R50              |
| E11      | P1001  | R51              |
| E11      | P1002  | R52              |
| E11      | P1003  | R53              |
| E11      | P1004  | R54              |
| E11      | P1005  | R55              |
| E11      | P1021  | R56              |
| E11      | P1022  | R57              |
| E11      | P1023  | R58              |
| E11      | P1024  | R59              |
| E11      | P1025  | R60              |
| E12      | P1006  | R56              |
| E12      | P1007  | R57              |
| E12      | P1008  | R58              |
| E12      | P1009  | R59              |
| E12      | P1010  | R60              |
| E13      | P1011  | R61              |
| E13      | P1012  | R62              |
| E13      | P1013  | R63              |
| E13      | P1014  | R64              |
| E13      | P1015  | R65              |
| E14      | P1016  | R66              |
| E14      | P1017  | R67              |
| E14      | P1018  | R68              |
```

```
mysql> SELECT SRN FROM ((SELECT SRN FROM registration WHERE event_id = 'E2') UNION ALL (SELECT SRN FROM registration WHERE event_id = 'E5') ) AS _ GROUP BY SRN HAVING COUNT(SRN) = 1;
+-------+
| SRN   |
+-------+
| P1006 |
| P1007 |
| P1008 |
| P1009 |
| P1010 |
| P1004 |
| P1005 |
| P1021 |
| P1022 |
| P1023 |
| P1024 |
| P1025 |
+-------+
12 rows in set (0.01 sec)
```

```
mysql> select * from registration
    -> ;
+----------+-------+-----------------+
| event_id | SRN   | registration_id |
+----------+-------+-----------------+
| E1       | P1017 | R2              |
| E1       | P1022 | R3              |
| E1       | P1025 | R4              |
| E10      | P1001 | R49             |
| E10      | P1005 | R50             |
| E10      | P1021 | R46             |
| E10      | P1022 | R47             |
| E10      | P1023 | R48             |
| E10      | P1024 | R49             |
| E10      | P1025 | R50             |
| E11      | P1001 | R51             |
| E11      | P1002 | R52             |
| E11      | P1003 | R53             |
| E11      | P1004 | R54             |
| E11      | P1005 | R55             |
| E11      | P1021 | R56             |
| E11      | P1022 | R57             |
| E11      | P1023 | R58             |
| E11      | P1024 | R59             |
| E11      | P1025 | R60             |
| E12      | P1006 | R56             |
| E12      | P1007 | R57             |
| E12      | P1008 | R58             |
| E12      | P1009 | R59             |
| E12      | P1010 | R60             |
| E13      | P1011 | R61             |
| E13      | P1012 | R62             |
| E13      | P1013 | R63             |
| E13      | P1014 | R64             |
| E13      | P1015 | R65             |
| E14      | P1016 | R66             |
| E14      | P1017 | R67             |
| E14      | P1018 | R68             |
```

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

```
mysql> select * from registration
    -> ;
+----------+-------+-----------------+
| event_id | SRN   | registration_id |
+----------+-------+-----------------+
| E1       | P1017 | R2              |
| E1       | P1022 | R3              |
| E1       | P1025 | R4              |
| E10      | P1001 | R49             |
| E10      | P1005 | R50             |
| E10      | P1021 | R46             |
| E10      | P1022 | R47             |
| E10      | P1023 | R48             |
| E10      | P1024 | R49             |
| E10      | P1025 | R50             |
| E11      | P1001 | R51             |
| E11      | P1002 | R52             |
| E11      | P1003 | R53             |
| E11      | P1004 | R54             |
| E11      | P1005 | R55             |
| E11      | P1021 | R56             |
| E11      | P1022 | R57             |
| E11      | P1023 | R58             |
| E11      | P1024 | R59             |
| E11      | P1025 | R60             |
| E12      | P1006 | R56             |
| E12      | P1007 | R57             |
| E12      | P1008 | R58             |
| E12      | P1009 | R59             |
| E12      | P1010 | R60             |
| E13      | P1011 | R61             |
| E13      | P1012 | R62             |
| E13      | P1013 | R63             |
| E13      | P1014 | R64             |
| E13      | P1015 | R65             |
| E14      | P1016 | R66             |
| E14      | P1017 | R67             |
| E14      | P1018 | R68             |
```

```
mysql> SELECT p.name AS participant_name, COUNT(v.name) AS visitor_count, GROUP_CONCAT(v.name SEPARATOR ', ') AS visitors FROM participant AS p LEFT JOIN visitor AS v ON p.SRN = v.SRN GR
+--------------------+---------------+-------------------------------+
| participant_name   | visitor_count | visitors                      |
+--------------------+---------------+-------------------------------+
| John Smith         |             3 | David Wilson, John Doe, Michael Johnson |
| Emily Johnson      |             1 | Jane Smith                    |
| Michael Williams   |             2 | Andrew Thomas, Daniel Taylor  |
| Sophia Brown       |             0 | NULL                          |
| Jacob Jones        |             0 | NULL                          |
| Olivia Davis       |             0 | NULL                          |
| Ethan Miller       |             0 | NULL                          |
| Ava Wilson         |             0 | NULL                          |
| William Taylor     |             0 | NULL                          |
| Emma Anderson      |             0 | NULL                          |
| Liam Martinez      |             0 | NULL                          |
| Isabella Thompson  |             0 | NULL                          |
| James Harris       |             0 | NULL                          |
| Mia Davis          |             2 | Emily Davis, Sophia Brown     |
| Benjamin Clark     |             0 | NULL                          |
| Charlotte Baker    |             2 | Isabella Martinez, Olivia Anderson |
| Daniel Lopez       |             0 | NULL                          |
| Amelia Turner      |             0 | NULL                          |
| Henry Hill         |             0 | NULL                          |
| Victoria Young     |             0 | NULL                          |
| David Lee          |             0 | NULL                          |
| Sofia Green        |             0 | NULL                          |
| Christopher Moore  |             0 | NULL                          |
| Scarlett Evans     |             0 | NULL                          |
| Andrew Martinez    |             0 | NULL                          |
+--------------------+---------------+-------------------------------+
25 rows in set (0.00 sec)
```

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

```
mysql> select * from registration;
+----------+--------+-----------------+
| event_id | SRN    | registration_id |
+----------+--------+-----------------+
| E1       | P1017  | R2              |
| E1       | P1022  | R3              |
| E1       | P1025  | R4              |
| E10      | P1001  | R49             |
| E10      | P1005  | R50             |
| E10      | P1021  | R46             |
| E10      | P1022  | R47             |
| E10      | P1023  | R48             |
| E10      | P1024  | R49             |
| E10      | P1025  | R50             |
| E11      | P1001  | R51             |
| E11      | P1002  | R52             |
| E11      | P1003  | R53             |
| E11      | P1004  | R54             |
| E11      | P1005  | R55             |
| E11      | P1021  | R56             |
| E11      | P1022  | R57             |
| E11      | P1023  | R58             |
| E11      | P1024  | R59             |
| E11      | P1025  | R60             |
| E12      | P1006  | R56             |
| E12      | P1007  | R57             |
| E12      | P1008  | R58             |
| E12      | P1009  | R59             |
| E12      | P1010  | R60             |
| E13      | P1011  | R61             |
| E13      | P1012  | R62             |
| E13      | P1013  | R63             |
| E13      | P1014  | R64             |
| E13      | P1015  | R65             |
| E14      | P1016  | R66             |
| E14      | P1017  | R67             |
| E14      | P1018  | R68             |
| E14      | P1019  | R69             |
| E14      | P1020  | R70             |
| E15      | P1021  | R71             |
| E15      | P1022  | R72             |
| E15      | P1023  | R73             |
| E15      | P1024  | R74             |
```

```
mysql> select * from participant
    -> ;
+-------+-------------------+------------------+----------+--------+
| SRN   | name              | department       | semester | gender |
+-------+-------------------+------------------+----------+--------+
| P1001 | John Smith        | Computer Science |        5 | Male   |
| P1002 | Emily Johnson     | Electrical       |        6 | Female |
| P1003 | Michael Williams  | Mechanical       |        4 | Male   |
| P1004 | Sophia Brown      | Civil            |        7 | Female |
| P1005 | Jacob Jones       | Chemical         |        5 | Male   |
| P1006 | Olivia Davis      | Computer Science |        6 | Female |
| P1007 | Ethan Miller      | Electrical       |        4 | Male   |
| P1008 | Ava Wilson        | Mechanical       |        7 | Female |
| P1009 | William Taylor    | Civil            |        5 | Male   |
| P1010 | Emma Anderson     | Chemical         |        6 | Female |
| P1011 | Liam Martinez     | Computer Science |        5 | Male   |
| P1012 | Isabella Thompson | Electrical       |        6 | Female |
| P1013 | James Harris      | Mechanical       |        4 | Male   |
| P1014 | Mia Davis         | Civil            |        7 | Female |
| P1015 | Benjamin Clark    | Chemical         |        5 | Male   |
| P1016 | Charlotte Baker   | Computer Science |        6 | Female |
| P1017 | Daniel Lopez      | Electrical       |        4 | Male   |
| P1018 | Amelia Turner     | Mechanical       |        7 | Female |
| P1019 | Henry Hill        | Civil            |        5 | Male   |
| P1020 | Victoria Young    | Chemical         |        6 | Female |
| P1021 | David Lee         | Computer Science |        5 | Male   |
| P1022 | Sofia Green       | Electrical       |        6 | Female |
| P1023 | Christopher Moore | Mechanical       |        4 | Male   |
| P1024 | Scarlett Evans    | Civil            |        7 | Female |
| P1025 | Andrew Martinez   | Chemical         |        5 | Male   |
+-------+-------------------+------------------+----------+--------+
25 rows in set (0.00 sec)
```

```
mysql> SELECT e.event_name, SUM(CASE WHEN p.gender = 'Male' THEN 1 ELSE 0 END) AS male_participants, SUM(CASE WHEN p.gender = 'Female' THEN 1 ELSE 0 END) AS female_participants FROM  registration AS r JOIN participant AS p ON r.SRN = p
.SRN JOIN event AS e ON r.event_id = e.event_id GROUP BY e.event_id, e.event_name HAVING male_participants = female_participants;
Empty set (0.00 sec)
```

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

```
mysql> select * from event
    -> ;
+----------+-----------------------+----------------+-------+---------+--------+---------+
| event_id | event_name            | building       | floor | room_no | price  | team_id |
+----------+-----------------------+----------------+-------+---------+--------+---------+
| E1       | Adventure Trek        | Outdoors       | 1     |     101 | 200.00 | T3      |
| E10      | Music Concert         | Amphi%he@ter   | 2     |     202 | 120.00 | T6      |
| E11      | Art Workshop          | M@in Building  | 1     |     101 | 150.00 | T6      |
| E12      | Film Screening        | Theater        | 2     |     203 | 500.00 | T6      |
| E13      | Traditional Dance wars| @udi%orium     | 1     |     102 | 850.00 | T8      |
| E14      | Singing Contest       | M@in Building  | 2     |     203 | 500.00 | T8      |
| E15      | Fashion Exhibition    | Sports Comp%ex | 1     |     103 | 120.00 | T8      |
| E16      | Poetry Slam           | Amphi%he@ter   | 2     |     201 | 100.00 | T8      |
| E17      | Quiz Competition      | @udi%orium     | 1     |     102 | 100.00 | T9      |
| E18      | Tech Talk             | Seminar Hall   | 1     |     101 | 200.00 | T9      |
| E19      | Web Design Contest    | @Computer%Lab% | 2     |     202 | 890.00 | T9      |
| E2       | Paintball Tournament  | Sports Comp%ex | 2     |     201 | 150.00 | T3      |
| E20      | Hackathon             | M@in Building  | 1     |     103 | 650.00 | T9      |
| E21      | Stage Setup           | M@in Building  | 2     |     203 | 900.00 | T12     |
| E22      | Sound and Lighting    | @udi%orium     | 1     |     102 | 250.00 | T12     |
| E23      | Event Coordination    | Sports Comp%ex | 1     |     103 | 500.00 | T12     |
| E24      | Volunteer Management  | M@in Building  | 3     |     303 | 600.00 | T12     |
| E25      | Baking Competition    | Kitchen        | 1     |     101 | 850.00 | T14     |
| E26      | Food Tasting          | Cafeteria      | 2     |     202 | 500.00 | T14     |
| E27      | Cooking Workshop      | M@in Building  | 1     |     102 | 120.00 | T14     |
| E29      | Short Film Screening  | Theater        | 1     |     103 | 400.00 | T15     |
| E3       | Escape Room Challenge | M@in Building  | 1     |     102 | 120.00 | T3      |
| E30      | Literary Debate       | Seminar Hall   | 1     |     101 | 550.00 | T15     |
| E31      | Writing Competition   | Library        | 2     |     202 | 950.00 | T15     |
| E32      | Poetry Recitation     | Amphi%he@ter   | 1     |     102 | 100.00 | T15     |
| E33      | AI Hackathon          | Seminar Hall   | 2     |     205 | 900.00 | T4      |
| E4       | Photography Contest   | @udi%orium     | 2     |     202 | 850.00 | T4      |
| E5       | Code Jam              | @Computer%Lab% | 1     |     101 | 100.00 | T4      |
| E6       | Robot Wars            | Robotics Arena | 1     |     201 | 100.00 | T4      |
| E7       | Tech Expo             | M@in Building  | 2     |     203 | 550.00 | T4      |
| E8       | Gaming Tournament     | Sports Comp%ex | 1     |     103 | 800.00 | T4      |
| E9       | Drama Play            | @udi%orium     | 1     |     102 | 100.00 | T6      |
+----------+-----------------------+----------------+-------+---------+--------+---------+
32 rows in set (0.00 sec)
```

```
mysql> SELECT
    ->     e.event_name,
    ->     CASE
    ->         WHEN YEAR(ec.date_of_conduction) > 2047 THEN 1
    ->         ELSE 0
    ->     END AS is_after_golden_jubilee
    -> FROM
    ->     event AS e
    -> JOIN
    ->     event_conduction AS ec ON e.event_id = ec.event_id;
+------------------------+-------------------------+
| event_name             | is_after_golden_jubilee |
+------------------------+-------------------------+
| Adventure Trek         |                       0 |
| Music Concert          |                       0 |
| Art Workshop           |                       0 |
| Film Screening         |                       0 |
| Traditional Dance wars |                       0 |
| Singing Contest        |                       0 |
| Fashion Exhibition     |                       0 |
| Poetry Slam            |                       0 |
| Quiz Competition       |                       0 |
| Quiz Competition       |                       0 |
| Tech Talk              |                       0 |
| Web Design Contest     |                       0 |
| Paintball Tournament   |                       0 |
| Hackathon              |                       0 |
| Stage Setup            |                       0 |
| Sound and Lighting     |                       0 |
| Event Coordination     |                       0 |
| Volunteer Management   |                       0 |
| Baking Competition     |                       0 |
| Food Tasting           |                       0 |
| Cooking Workshop       |                       0 |
| Short Film Screening   |                       0 |
| Escape Room Challenge  |                       0 |
| Literary Debate        |                       0 |
| Writing Competition    |                       0 |
| Poetry Recitation      |                       0 |
| Poetry Recitation      |                       0 |
| Photography Contest    |                       0 |
| Code Jam               |                       0 |
| Robot Wars             |                       0 |
| Tech Expo              |                       0 |
| Gaming Tournament      |                       0 |
| Drama Play             |                       0 |
| Drama Play             |                       0 |
+------------------------+-------------------------+
34 rows in set (0.00 sec)
```

Task 3: Few questions for you to answer:
1. Which SQL command is used to insert new records into a table?
Ans: INSERT

2. What is the difference between DELETE and TRUNCATE in SQL?
Ans: DELETE is an DML command which deletes the rows of a table according to some WHERE clause. TRUNCATE is an DDL language which operates on the table as a whole, doesn't support a WHERE clause and removes all rows of the table.

3. Which DML command is used to modify existing values in a table?
Ans: UPDATE

4. Can a single INSERT statement add multiple rows at once?
Ans: Yes.

5. Which DML command is used to fetch records from one or more tables?
Ans: SELECT

6. What is the purpose of using a JOIN in SQL?
Ans: It is used in link tables together based on the common columns present in the tables.

7. Which JOIN returns only the rows that have matching values in both tables?
Ans: INNER JJOIN

8. What does a LEFT JOIN return when there is no matching row in the right table?
Ans: NULL values are returned for all columns belonging to the right table

9. Can MySQL directly perform a FULL OUTER JOIN? If not, how can it be achieved?
Ans: MySQL does not directly support the FULL OUTER JOIN keyword. But the same result can be achieved by combining a LEFT JOIN and a RIGHT JOIN using the UNION operator

10.What is the difference between INNER JOIN and CROSS JOIN?
Ans: INNER JOIN is used to find matching rows between tables based on a common column or condition. CROSS JOIN is used to generate all possible combinations of rows between tables, creating a Cartesian product.