

**DBMS: LAB 6**

**DML (Data Manipulation Language) Commands**

**University Fest Management**

.....

**Abuthwahir H M**

**PES1UG22CS022**

**TASK 1:****Question 1**

Considering the entries in the “serves”, “visits”, and “person” tables, can the following query be executed successfully?

***INSERT INTO Visits VALUE('Michael', 'Café E')***

***No, There's already Michael exist in visits.***

**Question 2:**

Consider the Person table as shown. Can the following query be executed successfully?

***DELETE FROM Person WHERE name LIKE '%a';***

***Yes, This query will delete all rows from the Person table where the name ends with the letter a.***

***But in this case there's no Person's Name is ending by the letter a . So maybe we can say no updation happens in this code***

**Question 3:**

Consider the “Serve”, and “Visits” tables as shown. Can the following query be executed successfully?

***UPDATE serves SET Cafe\_name = 'Cafe A' WHERE Cafe\_name = 'Cafe E';***

***Yes, Café E converted to Café A but the value will be Null or Pasta ...***

## Task 2:

```
MySQL 8.0 Command Line Cli X + v
1000.00)' at line 1
mysql> INSERT INTO event (event_id, event_name, building, floor, room_no, price) VALUES ('EV001', '\\Truth\\Dare\\', 'F-Block', '1', 101,1000.00);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '101,1000.00)' at line 1
mysql> INSERT INTO event (event_id, event_name, building, floor, room_no, price)
-> VALUES ('EV001', 'Truth\\Dare\\', 'F-Block', '1', 101, 1000.00);
Query OK, 1 row affected (0.02 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 | Amphitheater | 2 | 202 | 120.00 | T6 |
| E11 | Art Workshop | Main Building | 1 | 101 | 150.00 | T6 |
| E12 | Film Screening | Theater | 2 | 203 | 500.00 | T6 |
| E13 | Traditional Dance wars | Auditorium | 1 | 102 | 850.00 | T8 |
| E14 | Singing Contest | Main Building | 2 | 203 | 500.00 | T8 |
| E15 | Fashion Exhibition | Sports Complex | 1 | 103 | 120.00 | T8 |
| E16 | Poetry Slam | Amphitheater | 2 | 201 | 100.00 | T8 |
| E17 | Quiz Competition | Auditorium | 1 | 102 | 100.00 | T9 |
| E18 | Tech Talk | Seminar Hall | 1 | 101 | 200.00 | T9 |
| E19 | Web Design Contest | ComputerLab | 2 | 202 | 600.00 | T9 |
| E2 | Paintball Tournament | Sports Complex | 2 | 201 | 150.00 | T3 |
| E20 | Hackathon | Main Building | 1 | 103 | 650.00 | T9 |
| E21 | Stage Setup | Main Building | 2 | 203 | 900.00 | T12 |
| E22 | Sound and Lighting | Auditorium | 1 | 102 | 250.00 | T12 |
| E23 | Event Coordination | Sports Complex | 1 | 103 | 500.00 | T12 |
| E24 | Volunteer Management | Main 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 | Main Building | 1 | 102 | 120.00 | T14 |
| E29 | Short Film Screening | Theater | 1 | 103 | 400.00 | T15 |
| E3 | Escape Room Challenge | Main 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 | Amphitheater | 1 | 102 | 100.00 | T15 |
| E4 | Photography Contest | Auditorium | 2 | 202 | 850.00 | T4 |
| E5 | Code Jam | ComputerLab | 1 | 101 | 100.00 | T4 |
| E6 | Robot Wars | Robotics Arena | 1 | 201 | 100.00 | T4 |
| E7 | Tech Expo | Main Building | 2 | 203 | 550.00 | T4 |
| E8 | Gaming Tournament | Sports Complex | 1 | 103 | 800.00 | T4 |
| E9 | Drama Play | Auditorium | 1 | 102 | 100.00 | T6 |
| EV001 | Truth\\Dare | F-Block | 1 | 101 | 1000.00 | NULL |
+-----+-----+-----+-----+-----+-----+-----+
32 rows in set (0.00 sec)

mysql> |
```

## Question 2: Fest Table:

```
mysql> INSERT INTO FEST VALUES('F001', 'Aatma Trisha-2023', 2023, 'T0001');
Query OK, 1 row affected (0.02 sec)

mysql> select * from fest;
+-----+-----+-----+-----+
| fest_id | fest_name | year | head_teamID |
+-----+-----+-----+-----+
| F001 | Aatma Trisha-2023 | 2023 | T0001 |
| F101 | Atmatrisha | 2023 | T1 |
| F102 | Samarpana | 2022 | T5 |
| F201 | Graduation | 2022 | T10 |
| F202 | Annual day | 2021 | T13 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> UPDATE fest SET Fest_ID='F0001' WHERE FEST_ID='F001';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from fest;
+-----+-----+-----+-----+
| fest_id | fest_name | year | head_teamID |
+-----+-----+-----+-----+
| F0001 | Aatma Trisha-2023 | 2023 | T0001 |
| F101 | Atmatrisha | 2023 | T1 |
| F102 | Samarpana | 2022 | T5 |
| F201 | Graduation | 2022 | T10 |
| F202 | Annual day | 2021 | T13 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

**Team Table:**

```
mysql> select * from team;
```


team_id	team_name	team_type	fest_id
T0001	AT Head team	MNG	F101
T1	Leads	MNG	F101
T10	Grad_head	MNG	F201
T11	Arts	MNG	F201
T12	Conduction	ORG	F201
T13	Fest Heads	MNG	F202
T14	Cul team	ORG	F202
T15	Dystopia	ORG	F202
T2	logistics_atm	MNG	F101
T3	Crazy hunters	ORG	F101
T4	Techno	ORG	F101
T5	The Heads	MNG	F102
T6	Eutopians	ORG	F102
T7	Managers	MNG	F102
T8	Cultural	ORG	F102
T9	Tech buzzers	ORG	F102


```
16 rows in set (0.00 sec)
```

```
mysql> UPDATE Team SET Fest_ID='F0001' WHERE Team_Id='T0001';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from team;
```

team_id	team_name	team_type	fest_id
T0001	AT Head team	MNG	F0001
T1	Leads	MNG	F101
T10	Grad_head	MNG	F201
T11	Arts	MNG	F201
T12	Conduction	ORG	F201
T13	Fest Heads	MNG	F202
T14	Cul team	ORG	F202
T15	Dystopia	ORG	F202
T2	logistics_atm	MNG	F101
T3	Crazy hunters	ORG	F101
T4	Techno	ORG	F101
T5	The Heads	MNG	F102
T6	Eutopians	ORG	F102
T7	Managers	MNG	F102
T8	Cultural	ORG	F102
T9	Tech buzzers	ORG	F102





## Database Management System – Solutions

### Member Table:

mem_id	mem_name	DOB	super_memID	team_id
M0001	Aditya Vikas	2002-07-31	NULL	T0001
M0002	N Kumar	2004-01-16	M0001	T0001

```

MySQL 8.0 Command Line Cli  x  +  v
16' for column 'DOB' at row 2
mysql>
mysql> INSERT INTO MEMBER VALUES('M0001', 'Aditya Vikas', '2002-07-31' , NULL, 'T0001'), ('M0002' , 'N Kumar' , '2004-0
, 'T0001');
Query OK, 2 rows affected (0.02 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> select * from member
-> ;
+-----+-----+-----+-----+-----+
| mem_id | mem_name      | DOB       | super_memID | team_id |
+-----+-----+-----+-----+-----+
| M0001  | Aditya Vikas  | 2002-07-31 | NULL        | T0001   |
| M0002  | N Kumar       | 2004-01-16 | M0001       | T0001   |
| M1     | John Doe      | 1995-05-10 | NULL        | T1       |
| M10    | Jessica Brown | 1995-07-18 | M8          | T2       |
| M11    | Christopher Wilson | 1996-10-22 | NULL        | T3       |
| M12    | Sophia Taylor | 1997-01-30 | M11         | T3       |
| M13    | William Moore | 1993-06-08 | M11         | T3       |
| M14    | Olivia Clark  | 1994-09-14 | M11         | T3       |
| M15    | Andrew Lee    | 1995-12-20 | M14         | T3       |
| M16    | Emma Martinez | 1996-03-28 | M11         | T3       |
| M17    | Matthew Harris | 1994-02-05 | M14         | T3       |
| M18    | Olivia Adams  | 1995-05-11 | M14         | T3       |
| M19    | Emily Walker  | 1994-12-08 | M21         | T4       |
| M2     | Alice Smith   | 1996-08-15 | M1          | T1       |
| M20    | Sophia Hall   | 1997-11-21 | M22         | T4       |
| M21    | Michael Turner | 1993-10-02 | M22         | T4       |
| M22    | Daniel Clark  | 1996-08-16 | NULL        | T4       |
| M23    | Jacob Lewis   | 1996-03-15 | M21         | T4       |
| M24    | Mia Rodriguez | 1997-06-21 | M22         | T4       |
| M25    | Daniel Robinson | 1993-09-01 | M23         | T4       |
| M26    | Ava Walker    | 1994-12-06 | M23         | T4       |
| M27    | William Turner | 1995-03-13 | NULL        | T5       |
| M28    | Sophia Williams | 1996-06-19 | M27         | T5       |

```

### Task 3:

#### Question 1:

```

+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT * FROM event WHERE building LIKE '%@%\\%' or '\\%\\%@%';
+-----+-----+-----+-----+-----+-----+-----+
| event_id | event_name | building | floor | room_no | price | team_id |
+-----+-----+-----+-----+-----+-----+-----+
| E13 | Traditional Dance wars | @udi%orium | 1 | 102 | 850.00 | T8 |
| E17 | Quiz Competition | @udi%orium | 1 | 102 | 100.00 | T9 |
| E19 | Web Design Contest | @Computer%Lab% | 2 | 202 | 890.00 | T9 |
| E22 | Sound and Lighting | @udi%orium | 1 | 102 | 250.00 | T12 |
| E4 | Photography Contest | @udi%orium | 2 | 202 | 850.00 | T4 |
| E5 | Code Jam | @Computer%Lab% | 1 | 101 | 100.00 | T4 |
| E9 | Drama Play | @udi%orium | 1 | 102 | 100.00 | T6 |
+-----+-----+-----+-----+-----+-----+-----+
7 rows in set, 1 warning (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 |
+-----+-----+-----+-----+-----+-----+-----+

```

#### Question2:

```

mysql> SELECT fest_name, CASE WHEN year > 2022 THEN 1 ELSE 0 END AS post_silver_jubilee FROM fest;
+-----+-----+
| fest_name | post_silver_jubilee |
+-----+-----+
| Aatma Trisha-2023 | 1 |
| Atmatrisha | 1 |
| Samarpana | 0 |
| Graduation | 0 |
| Annual day | 0 |
+-----+-----+
5 rows in set (0.00 sec)

```

```
mysql> select * from fest;
+-----+-----+-----+-----+
| fest_id | fest_name      | year | head_teamID |
+-----+-----+-----+-----+
| F0001   | Aatma Trisha-2023 | 2023 | T0001       |
| F101    | Atmatrisha      | 2023 | T1          |
| F102    | Samarpana       | 2022 | T5          |
| F201    | Graduation      | 2022 | T10         |
| F202    | Annual day      | 2021 | T13         |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

**Question3:**

```
mysql> SELECT distinct item_name from stall_items where stall_id = 'S1' OR stall_id = 'S2';
+-----+
| item_name |
+-----+
| Caprese Salad |
| Classic Caesar Salad |
| Margherita Pizza |
| Mushroom Risotto |
| Spinach and Feta Omelette |
| Vegetable Pad Thai |
| Vegetable Stir-Fry |
| Veggie Wrap |
| Bacon-Wrapped Shrimp |
| BBQ Chicken Sandwich |
| Chicken Noodle Soup |
| Fish Tacos |
| Mutton Stroganoff |
+-----+
13 rows in set (0.00 sec)

mysql> |
```

#### Question 4:

```
MySQL 8.0 Command Line Cli  X  +  v

mysql> SELECT stall_id, item_name, ((price_per_unit * 2.5) - price_per_unit) * 0.1 AS profit
-> FROM stall_items;
```

stall_id	item_name	profit
S1	Caprese Salad	37.3500
S1	Classic Caesar Salad	52.4250
S1	Margherita Pizza	52.5000
S1	Mushroom Risotto	53.8500
S1	Spinach and Feta Omelette	38.8500
S1	Vegetable Pad Thai	49.3500
S1	Vegetable Stir-Fry	44.8500
S1	Veggie Wrap	59.8500
S2	Chicken Noodle Soup	79.3500
S2	Fish Tacos	67.3500
S2	Mushroom Risotto	58.0500
S2	Vegetable Stir-Fry	48.3000
S2	Veggie Wrap	64.3500
S3	Chicken Noodle Soup	84.6750
S3	Fish Tacos	72.2250
S3	Mushroom Risotto	52.3500
S3	Spinach and Feta Omelette	42.3750
S3	Vegetable Stir-Fry	43.9500
S3	Veggie Wrap	56.8500
S4	BBQ Chicken Sandwich	73.3500
S4	Chicken Noodle Soup	77.9625
S4	Fish Tacos	70.5000
S4	Grilled Steak	86.0625
S4	Shrimp Scampi	62.8500
S5	Classic Caesar Salad	52.3875
S5	Margherita Pizza	52.3500
S5	Mushroom Risotto	54.0000
S5	Vegetable Pad Thai	48.6375
S5	Veggie Wrap	60.0000
S6	Chicken Noodle Soup	82.5000
S6	Fish Tacos	70.5000
S6	Grilled Steak	93.3750

#### Question 5:

```
mysql> SELECT * FROM PURCHASED WHERE TIMESTAMP >= '2023016120000' AND TIMESTAMP <= '20230416150000';
ERROR 1525 (HY000): Incorrect TIMESTAMP value: '2023016120000'
mysql> SELECT * FROM PURCHASED WHERE TIMESTAMP >= '20230416120000' AND TIMESTAMP <= '20230416150000';
```

SRN	stall_id	item_name	timestamp	quantity
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
P1005	S3	Fish Tacos	2023-04-16 12:15:00	5
P1005	S9	Mutton Stroganoff	2023-04-16 13:35:00	1
P1006	S1	Margherita Pizza	2023-04-16 14:50:00	1
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	S3	Chicken Noodle Soup	2023-04-16 12:25:00	3
P1017	S3	Vegetable Stir-Fry	2023-04-16 12:25:00	4

10 rows in set (0.02 sec)

```
mysql> |
```



**Question 6:**

```
mysql> SELECT e.event_name, e.price FROM event e JOIN team t ON e.team_id = t.team_id WHERE t.fest_id != 'F202' AND e.team_id NOT IN ('T13', 'T14', 'T15') ORDER BY e.price DESC LIMIT 5;
```

event_name	price
Stage Setup	900.00
Web Design Contest	890.00
Traditional Dance wars	850.00
Photography Contest	850.00
Gaming Tournament	800.00

```
5 rows in set (0.00 sec)
```

```
mysql> |
```

