

DBMS LAB 7:

SNEHA VERMA

PES1UG23AM309

TASK 1-

Q1)

Before:

```
sneha>select * from participant;
+-----+-----+-----+-----+-----+
| SRN   | Name  | Gender | Department | Semester |
+-----+-----+-----+-----+-----+
| P1001 | Sneha | F      | CSE        | 4        |
| P1002 | Rahul | M      | ECE        | 6        |
| P1003 | Asha  | F      | ME         | 2        |
| P1017 | Kiran | M      | CSE        | 5        |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Command:

```
sneha>SELECT DISTINCT p.Name
-> FROM Participant p
-> JOIN Registration r ON p.SRN = r.SRN
-> JOIN Event e ON r.EventID = e.EventID
-> WHERE e.Price > (SELECT AVG(Price) FROM Event);
```

After:

```

+-----+
| Name |
+-----+
| Rahul |
+-----+
1 row in set (0.02 sec)

```

Q2)

Before:

```

sneha>select * from event;
+-----+-----+-----+-----+-----+-----+-----+-----+
| EventID | EventName | TeamID | Venue_Block | Venue_Floor | Venue_Room | Price | EventDate |
+-----+-----+-----+-----+-----+-----+-----+-----+
| E1 | Coding Marathon | T3 | Main Block | 1 | 101 | 500.00 | 2025-07-12 |
| E101 | AI Hackathon | T4 | Seminar Hall | 2 | 205 | 900.00 | 2025-07-15 |
| E2 | Dance Battle | T2 | Cultural Block | 2 | 202 | 300.00 | 2025-07-13 |
| E3 | Robotics Challenge | T3 | Lab Block | 3 | 303 | 800.00 | 2025-07-14 |
| E5 | Music Fiesta | T2 | Auditorium | 1 | 105 | 400.00 | 2025-07-15 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

Command:

```

sneha>SELECT e.EventID, e.EventName, COUNT(r.RegID) AS TotalRegi
strations
-> FROM Event e
-> JOIN Registration r ON e.EventID = r.EventID
-> GROUP BY e.EventID, e.EventName
-> HAVING COUNT(r.RegID) >
->      (SELECT AVG(EventCount)
->      FROM (SELECT COUNT(*) AS EventCount
->      FROM Registration
->      GROUP BY EventID) AS sub);

```

After:

EventID	EventName	TotalRegistrations
E2	Dance Battle	2
E5	Music Fiesta	2

2 rows in set (0.01 sec)

TASK 2

Q3)

Before:

```
sneha>select * from participant;
```

SRN	Name	Gender	Department	Semester
P1001	Sneha	F	CSE	4
P1002	Rahul	M	ECE	6
P1003	Asha	F	ME	2
P1017	Kiran	M	CSE	5

4 rows in set (0.00 sec)

Command:

```
sneha>SELECT DISTINCT p.SRN, p.Name
-> FROM Participant p
-> JOIN Registration r ON p.SRN = r.SRN
-> JOIN Event e ON r.EventID = e.EventID
-> WHERE e.Price = (SELECT MAX(Price) FROM Event);
```

After:

Empty set (0.00 sec)

Q4)

Before:

```
sneha>select * from stall;
+-----+-----+
| StallID | StallName |
+-----+-----+
| S1      | Foodies Corner |
| S6      | Taco Time      |
+-----+-----+
2 rows in set (0.00 sec)
```

Command:

```
sneha>SELECT DISTINCT s.StallID, s.StallName, i.ItemName, i.Price
e
-> FROM Stall s
-> JOIN Item i ON s.StallID = i.StallID
-> WHERE i.Price < (SELECT AVG(i2.Price)
->                  FROM Item i2
->                  WHERE i2.ItemName = i.ItemName);
```

After:

```
Empty set (0.00 sec)
```

TASK 3

Q5)

Before:

```
sneha>select * from participant;
```

SRN	Name	Gender	Department	Semester
P1001	Sneha	F	CSE	4
P1002	Rahul	M	ECE	6
P1003	Asha	F	ME	2
P1017	Kiran	M	CSE	5

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

Command:

```
sneha>SELECT p.SRN, p.Name,  
->      COUNT(pu.PurchaseID) AS PurchaseCount,  
->      SUM(pu.Quantity) AS TotalQuantity,  
->      RANK() OVER (ORDER BY SUM(pu.Quantity) DESC) AS Pu  
rchaseRank  
-> FROM Participant p  
-> JOIN Purchase pu ON p.SRN = pu.SRN  
-> GROUP BY p.SRN, p.Name;
```

After:

SRN	Name	PurchaseCount	TotalQuantity	PurchaseRank
P1017	Kiran	1	3	1
P1001	Sneha	1	2	2
P1002	Rahul	1	1	3

```
3 rows in set (0.01 sec)
```

Q6)

Before:

```
sneha>select * from participant;
```

SRN	Name	Gender	Department	Semester
P1001	Sneha	F	CSE	4
P1002	Rahul	M	ECE	6
P1003	Asha	F	ME	2
P1017	Kiran	M	CSE	5

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

Command:

```
sneha>SELECT p.Department, p.Name,  
->      COUNT(r.RegID) AS TotalEvents,  
->      RANK() OVER (PARTITION BY p.Department ORDER BY CO  
UNT(r.RegID) DESC) AS DeptRank  
-> FROM Participant p  
-> JOIN Registration r ON p.SRN = r.SRN  
-> GROUP BY p.Department, p.Name;
```

After:

Department	Name	TotalEvents	DeptRank
CSE	Sneha	1	1
CSE	Kiran	1	1
ECE	Rahul	2	1
ME	Asha	1	1

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

TASK 4

```
sneha>ALTER TABLE Event ADD FULLTEXT(EventName);
Query OK, 0 rows affected, 1 warning (0.52 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
sneha>ALTER TABLE Item ADD FULLTEXT(ItemName);
Query OK, 0 rows affected, 1 warning (0.42 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

Q7)

Before:

```
sneha>select * from event;
+-----+-----+-----+-----+-----+-----+-----+-----+
| EventID | EventName      | TeamID | Venue_Block | Venue_Floor | Venue_Room | Price | EventDate |
+-----+-----+-----+-----+-----+-----+-----+-----+
| E1      | Coding Marathon | T3     | Main Block  | 1           | 101        | 500.00 | 2025-07-12 |
| E101    | AI Hackathon   | T4     | Seminar Hall | 2           | 205        | 900.00 | 2025-07-15 |
| E2      | Dance Battle   | T2     | Cultural Block | 2           | 202        | 300.00 | 2025-07-13 |
| E3      | Robotics Challenge | T3     | Lab Block   | 3           | 303        | 800.00 | 2025-07-14 |
| E5      | Music Fiesta   | T2     | Auditorium  | 1           | 105        | 400.00 | 2025-07-15 |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Command:

```
sneha>SELECT EventID, EventName,
-> MATCH(EventName) AGAINST('Tournament') AS Relevanc
e
-> FROM Event
-> WHERE MATCH(EventName) AGAINST('Tournament')
-> ORDER BY Relevance DESC;
```

After:

```
Empty set (0.02 sec)
```

Q8)

Before:

```
sneha>select * from stall;
+-----+-----+
| StallID | StallName |
+-----+-----+
| S1      | Foodies Corner |
| S6      | Taco Time      |
+-----+-----+
2 rows in set (0.00 sec)
```

Command:

```
sneha>SELECT s.StallID, s.StallName,
->      SUM(i.Quantity) AS TotalStock
-> FROM Stall s
-> JOIN Item i ON s.StallID = i.StallID
-> WHERE MATCH(i.ItemName) AGAINST('chicken soup')
-> GROUP BY s.StallID, s.StallName;
```

After:

```
Empty set (0.01 sec)
```