1. User Upcoming Events

```
SELECT u.full_name, e.title, e.start_date
FROM Users u
JOIN Registrations r ON u.user_id = r.user_id
JOIN Events e ON r.event_id = e.event_id
WHERE e.status = 'upcoming' AND u.city = e.city
ORDER BY e.start_date;
```

2. Top Rated Events

```
SELECT e.title, AVG(f.rating) AS avg_rating
FROM Events e
JOIN Feedback f ON e.event_id = f.event_id
GROUP BY e.event_id
HAVING COUNT(f.feedback_id) >= 10
ORDER BY avg_rating DESC;
```

3. Inactive Users (No registration in last 90 days)

```
SELECT *
FROM Users
WHERE user_id NOT IN (
    SELECT user_id
    FROM Registrations
    WHERE registration_date >= CURDATE() - INTERVAL 90 DAY
);
```

4. Peak Session Hours (10 AM to 12 PM)

```
SELECT event_id, COUNT(*) AS session_count
FROM Sessions
WHERE TIME(start_time) >= '10:00:00' AND TIME(start_time) <
'12:00:00'
GROUP BY event_id;</pre>
```

5. Most Active Cities

```
SELECT u.city, COUNT(DISTINCT r.user_id) AS user_count
FROM Registrations r
JOIN Users u ON r.user_id = u.user_id
GROUP BY u.city
ORDER BY user_count DESC
LIMIT 5;
```

6. Event Resource Summary

7. Low Feedback Alerts

```
SELECT u.full_name, e.title, f.rating, f.comments
FROM Feedback f
JOIN Users u ON f.user_id = u.user_id
JOIN Events e ON f.event_id = e.event_id
WHERE f.rating < 3;</pre>
```

8. Sessions per Upcoming Event

```
SELECT e.title, COUNT(s.session_id) AS session_count
FROM Events e
LEFT JOIN Sessions s ON e.event_id = s.event_id
WHERE e.status = 'upcoming'
GROUP BY e.event_id;
```

9. Organizer Event Summary

10. Feedback Gap

```
SELECT e.title
FROM Events e
JOIN Registrations r ON e.event_id = r.event_id
LEFT JOIN Feedback f ON e.event_id = f.event_id
GROUP BY e.event_id
HAVING COUNT(f.feedback_id) = 0;
```

11. Daily New User Count (Last 7 Days)

```
SELECT registration_date, COUNT(*) AS new_users
FROM Users
WHERE registration_date >= CURDATE() - INTERVAL 7 DAY
GROUP BY registration_date;
```

12. Event with Maximum Sessions

```
SELECT e.title, COUNT(s.session_id) AS session_count
FROM Events e
JOIN Sessions s ON e.event_id = s.event_id
GROUP BY e.event_id
HAVING session_count = (
    SELECT MAX(session_total)
    FROM (
        SELECT COUNT(*) AS session_total
        FROM Sessions
        GROUP BY event_id
    ) AS sub
);
```

13. Average Rating per City

```
SELECT e.city, AVG(f.rating) AS avg_rating
FROM Feedback f
JOIN Events e ON f.event_id = e.event_id
GROUP BY e.city;
```

14. Most Registered Events (Top 3)

```
SELECT e.title, COUNT(r.registration_id) AS total_registrations
FROM Events e
JOIN Registrations r ON e.event_id = r.event_id
GROUP BY e.event_id
ORDER BY total_registrations DESC
LIMIT 3;
```

15. Event Session Time Conflict

```
SELECT s1.event_id, s1.session_id AS session1, s2.session_id AS
session2
FROM Sessions s1
JOIN Sessions s2 ON s1.event_id = s2.event_id AND s1.session_id <
s2.session_id
WHERE s1.end_time > s2.start_time AND s1.start_time < s2.end_time;</pre>
```

16. Unregistered Active Users (Joined last 30 days, no registration)

```
SELECT *
FROM Users
WHERE registration_date >= CURDATE() - INTERVAL 30 DAY
AND user_id NOT IN (
    SELECT user_id FROM Registrations
);
```

17. Multi-Session Speakers

```
SELECT speaker_name, COUNT(*) AS session_count
FROM Sessions
GROUP BY speaker_name
HAVING session_count > 1;
```

18. Resource Availability Check

```
SELECT e.title
FROM Events e
LEFT JOIN Resources r ON e.event_id = r.event_id
GROUP BY e.event_id
HAVING COUNT(r.resource_id) = 0;
```

19. Completed Events with Feedback Summary

20. User Engagement Index

21. Top Feedback Providers

```
SELECT u.full_name, COUNT(f.feedback_id) AS feedback_count
FROM Feedback f
JOIN Users u ON f.user_id = u.user_id
GROUP BY u.user_id
ORDER BY feedback_count DESC
LIMIT 5;
```

22. Duplicate Registrations Check

```
SELECT user_id, event_id, COUNT(*) AS times_registered
FROM Registrations
GROUP BY user_id, event_id
HAVING times_registered > 1;
```

23. Registration Trends (Last 12 months)

24. Average Session Duration per Event (in minutes)

25. Events Without Sessions

```
SELECT e.title
FROM Events e
LEFT JOIN Sessions s ON e.event_id = s.event_id
WHERE s.session_id IS NULL;
```