## 1. Find the class with the highest attendance

```
SELECT c.ClassID, c.ClassName, COUNT(cr.RegistrationID) AS AttendanceCount
FROM Classes c

JOIN ClassRegistrations cr ON c.ClassID = cr.ClassID

WHERE cr.Attendance = 'Y'

GROUP BY c.ClassID, c.ClassName

ORDER BY AttendanceCount DESC

FETCH FIRST 1 ROWS ONLY;
```

### 2. CALCULATE THE AVERAGE NUMBER OF CLASSES ATTENDED PER MEMBER

```
SELECT AVG(ClassCount) AS AverageClassesAttended
FROM (

SELECT COUNT(cr.RegistrationID) AS ClassCount
FROM ClassRegistrations cr

WHERE cr.Attendance = 'Y'

GROUP BY cr.MemberID
);
```

#### 3. RETRIEVE THE MINIMUM NUMBER OF PARTICIPANTS IN ANY CLASS

```
SELECT MIN(ParticipantCount) AS MinimumParticipants

FROM (

SELECT COUNT(cr.RegistrationID) AS ParticipantCount

FROM ClassRegistrations cr

WHERE cr.Attendance = 'Y'

GROUP BY cr.ClassID
);
```

### 4. FIND THE TRAINER WITH THE HIGHEST NUMBER OF CLASSES TAUGHT

SELECT t.TrainerID, t.FirstName, t.LastName, COUNT(c.ClassID) AS ClassesTaught

# FROM Trainers t

JOIN Classes cON t.TrainerID = c.TrainerID

GROUP BY t.TrainerID, t.FirstName, t.LastName

ORDER BY ClassesTaught DESC

FETCH FIRST 1 ROWS ONLY;

#### 5. LIST THE TOP 5 MOST POPULAR MEMBERSHIP TYPES

SELECT mt. MembershipTypeName, COUNT(m. MemberID) AS NumberOfMembers

FROM MembershipTypes mt

JOIN Members m ON mt. Membership Type ID = m. Membership Type ID

GROUP BY mt.MembershipTypeName

ORDER BY NumberOfMembers DESC

FETCH FIRST 5 ROWS ONLY;