Query 1: Join Query
Goal: Display top 5 players and their unlocked achievements.

SELECT p.Username, a.Name AS AchievementName, pa.DateUnlocked
FROM Player p
JOIN PlayerAchievement pa ON p.PlayerID = pa.PlayerID
JOIN Achievement a ON pa.AchievementID = a.AchievementID
ORDER BY p.Username, pa.DateUnlocked
LIMIT 5;

Username ▲ 1	AchievementName	DateUnlocked
SummonerA	First Blood	2023-03-01
SummonerA	Pentakill	2023-03-02
SummonerA	Ace	2023-03-03
SummonerA	Unkillable	2023-03-04
SummonerA	Farming God	2023-03-05

Query 2: Aggregation Query
Goal: Compute average playtime per player and total achievements earned.

SELECT p.Username,
    ROUND(AVG(m.Duration), 1) AS AvgPlaytime,
    COUNT(pa.AchievementID) AS TotalAchievements
FROM Player p
JOIN PlayerMatch pm ON p.PlayerID = pm.PlayerID
JOIN `Match` m ON pm.MatchID = m.MatchID
LEFT JOIN PlayerAchievement pa ON p.PlayerID = pa.PlayerID
GROUP BY p.Username;

Username	AvgPlaytime	TotalAchievements
SummonerA	30.8	25
SummonerB	33.6	20
SummonerC	33.0	15
SummonerD	29.4	10
SummonerE	32.6	10
SummonerF	40.0	1
SummonerG	25.0	1
SummonerH	25.0	1
SummonerI	38.0	1
SummonerJ	38.0	1
SummonerK	32.0	1
SummonerL	32.0	1
SummonerM	27.0	1
SummonerN	27.0	1
SummonerO	29.0	1
SummonerP	29.0	1
SummonerQ	42.0	1
SummonerR	42.0	1
SummonerS	26.0	1
SummonerT	26.0	1

Query 3: Nested Aggregation with Group By
Goal: Find total match duration per week grouped by player.

```
SELECT p.Username,
    WEEK(m.DatePlayed) AS WeekNumber,
    SUM(m.Duration) AS TotalPlaytime
FROM Player p
JOIN PlayerMatch pm ON p.PlayerID = pm.PlayerID
JOIN `Match` m ON pm.MatchID = m.MatchID
GROUP BY p.Username, WEEK(m.DatePlayed)
ORDER BY p.Username, WeekNumber;
```

Username ▲ 1	WeekNumber ▲ 2	TotalPlaytime
SummonerA	9	35
SummonerA	11	32
SummonerA	12	27
SummonerA	13	60
SummonerB	9	35
SummonerB	11	29
SummonerB	12	35
SummonerB	13	69
SummonerC	9	28
SummonerC	11	38
SummonerC	12	26
SummonerC	13	36
SummonerC	14	37
SummonerD	9	28
SummonerD	12	58
SummonerD	13	34
SummonerD	14	27
SummonerE	9	40
SummonerE	12	68
SummonerE	13	25
SummonerE	14	30
SummonerF	9	40
SummonerG	9	25
SummonerH	9	25
SummonerI	9	38

Query 4: Filtering & Ranking Query
Goal: Display the top 5 players with the highest total gold earned.

SELECT p.Username, SUM(ps.GoldEarned) AS TotalGold
FROM Player p
JOIN PlayerMatch pm ON p.PlayerID = pm.PlayerID
JOIN PlayerStats ps ON pm.PlayerMatchID = ps.PlayerMatchID
GROUP BY p.Username
ORDER BY TotalGold DESC
LIMIT 5;

| Username	TotalGold ▾ 1
SummonerE	72800
SummonerB	72500
SummonerD	70800
SummonerA	66500
SummonerC	63500

Query 5: Update Operation
Goal: Update player profile information.

UPDATE Player
SET Username = 'NewName', Rank = 'Platinum'
WHERE PlayerID = 3;

				PlayerID	Username	SummonerLevel	Rank	RegionID	JoinDate
☐	✎ Edit	⌗ Copy	⊖ Delete	1	SummonerA	120	Gold	1	2020-05-12
☐	✎ Edit	⌗ Copy	⊖ Delete	2	SummonerB	88	Silver	2	2019-11-01
☐	✎ Edit	⌗ Copy	⊖ Delete	3	NewName	150	Platinum	3	2021-07-25
☐	✎ Edit	⌗ Copy	⊖ Delete	4	SummonerD	45	Bronze	4	2022-02-10
☐	✎ Edit	⌗ Copy	⊖ Delete	5	SummonerE	200	Diamond	5	2018-09-17
☐	✎ Edit	⌗ Copy	⊖ Delete	6	SummonerF	30	Iron	6	2023-01-01

Query 6: Delete Operation with Cascade
Goal: Delete a player and automatically remove all associated records (matches, stats, achievements, inventory).

DELETE FROM Player
WHERE PlayerID = 4;

				PlayerID	Username	SummonerLevel	Rank	RegionID	JoinDate
☐	✎ Edit	⌗ Copy	⊖ Delete	1	SummonerA	120	Gold	1	2020-05-12
☐	✎ Edit	⌗ Copy	⊖ Delete	2	SummonerB	88	Silver	2	2019-11-01
☐	✎ Edit	⌗ Copy	⊖ Delete	3	NewName	150	Platinum	3	2021-07-25
☐	✎ Edit	⌗ Copy	⊖ Delete	5	SummonerE	200	Diamond	5	2018-09-17
☐	✎ Edit	⌗ Copy	⊖ Delete	6	SummonerF	30	Iron	6	2023-01-01
☐	✎ Edit	⌗ Copy	⊖ Delete	7	SummonerG	99	Silver	7	2021-03-14
☐	✎ Edit	⌗ Copy	⊖ Delete	8	SummonerH	170	Gold	8	2020-06-30