`queries.pdf` 内容草稿

| 内容要素 | 包含内容 |

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| ✅ 查询编号 | Query 1 - Query 6（根据 Milestone 任务） |

| ✅ Plain English 描述 | 每个查询用一句话解释其业务意义 |

| ✅ SQL 查询语句 | 可直接复制执行 |

| ⬜ 查询结果截图位置 | 用 `📸 Screenshot Here` 占位，你组员贴图即可 |

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📄 `queries.pdf` 内容草稿

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✅ 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 20;

📸 \*\*Screenshot Here\*\* \*(player\_achievements.php page)\*

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✅ 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;

📸 \*\*Screenshot Here\*\* \*(analytics.php page)\*

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✅ 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;

📸 \*\*Screenshot Here\*\* \*(analytics.php page)\*

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✅ 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;

📸 \*\*Screenshot Here\*\* \*(leaderboard.php page)\*

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✅ Query 5: Update Operation

Goal: Update player profile information using a web form.

UPDATE Player

SET Username = 'NewName', Rank = 'Platinum'

WHERE PlayerID = 3;

📸 \*\*Screenshot Here\*\* \*(update\_profile.php page before & after)\*

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✅ 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;

📸 \*\*Screenshot Here\*\* \*(delete\_player.php page after deletion)\*

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✅ Tips for Submission

- 所有截图建议在浏览器中访问实际页面后 `Cmd+Shift+4` 或 Snipping Tool 截取

- 若查询结果不够直观，可选择更活跃玩家的 ID

- 建议将截图压缩统一格式（JPG 或 PNG）

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