# Player Loyalty Point Distribution Project

## Project Overview

The Player Loyalty Point Distribution Project is an end-to-end SQL-based data processing system for an online gaming company. It calculates loyalty points, ranks players, and allocates bonus amounts based on their activity including deposits, withdrawals, and games played.

## Key Features

- Raw Data: Deposits, Withdrawals, and Games Played

- Master Data Creation using SQL JOINs and logic

- Loyalty Points Formula:

  (Deposit Amount / 100) - (Withdraw Amount / 100) + (Number of Games Played * 2)

- Ranking Players based on Loyalty Points

- Bonus Distribution by Rank

- Final Export of Processed Tables as CSV

## Tables Created

| Table Name | Description |
|------------------|--------------------------------------------|
| raw_deposit | Player deposit data |
| raw_withdraw | Player withdrawal data |
| raw_gameplay | Number of games played |
| master_data | Combined cleaned table |
| final_ranking | Players sorted by loyalty points |
| bonus_table | Final bonus table (Loyalty + Rank + Bonus) |

## Technologies Used

- MySQL Workbench

- Excel

- CSV files

## Files in This Project

# Player Loyalty Point Distribution Project

File Name              | Purpose

-----------------------|----------------------------------------

Raw_Deposit.csv        | Original deposit data

Raw_Withdraw.csv       | Original withdrawal data

Raw_Gameplay.csv       | Original gameplay data

Assignment.xlsx        | Combined Excel workbook of all data

master_data.csv        | Final merged data

final_ranking.csv      | Ranked player list

bonus_table.csv        | Loyalty + Bonus output

Player_Loyalty_Project.sql | SQL file to recreate everything

README.pdf             | Project documentation


## Created By

Name: Paras Chaturvedi

Project Name: Player_Loyalty_Project

Tool: MySQL Workbench

Date: June 2025


## How to Run the Project

1. Import raw CSV files into MySQL Workbench

2. Run SQL script: Player_Loyalty_Project.sql

3. Check created tables: master_data, final_ranking, bonus_table

4. Export tables if needed