

### **Project Name: Decode Gaming Behavior**

In this internship, you will be working with a dataset related to a game. The dataset includes two tables: `Player Details` and `Level Details`. Below is a brief description of the dataset and the tasks you need to perform:

#### **Dataset Description:**

##### **Player Details Table:**

- `P\_ID`: Player ID
- `PName`: Player Name
- `L1\_status`: Level 1 Status
- `L2\_status`: Level 2 Status
- `L1\_code`: Systemgenerated Level 1 Code
- `L2\_code`: Systemgenerated Level 2 Code

##### **Level Details Table:**

- `P\_ID`: Player ID
- `Dev\_ID`: Device ID
- `start\_time`: Start Time
- `stages\_crossed`: Stages Crossed
- `level`: Game Level
- `difficulty`: Difficulty Level
- `kill\_count`: Kill Count
- `headshots\_count`: Headshots Count
- `score`: Player Score
- `lives\_earned`: Extra Lives Earned

#### **What you have to do?**

Use the "Game Analysis.sql" file. Below are 15 questions for which you have to find the answers by writing SQL queries. Each question carries 2 marks.

1. Extract `P\_ID`, `Dev\_ID`, `PName`, and `Difficulty\_level` of all players at Level 0.
2. Find `Level1\_code` wise average `Kill\_Count` where `lives\_earned` is 2, and at least 3 stages are crossed.

3. Find the total number of stages crossed at each difficulty level for Level 2 with players using `zm\_series` devices. Arrange the result in decreasing order of the total number of stages crossed.
4. Extract `P\_ID` and the total number of unique dates for those players who have played games on multiple days.
5. Find `P\_ID` and levelwise sum of `kill\_counts` where `kill\_count` is greater than the average kill count for Medium difficulty.
6. Find `Level` and its corresponding `Level\_code` wise sum of lives earned, excluding Level 0. Arrange in ascending order of level.
7. Find the top 3 scores based on each `Dev\_ID` and rank them in increasing order using `Row\_Number`. Display the difficulty as well.
8. Find the `first\_login` datetime for each device ID.
9. Find the top 5 scores based on each difficulty level and rank them in increasing order using `Rank`. Display `Dev\_ID` as well.
10. Find the device ID that is first logged in (based on `start\_datetime`) for each player (`P\_ID`). Output should contain player ID, device ID, and first login datetime.
11. For each player and date, determine how many `kill\_counts` were played by the player so far.
  - a) Using window functions
  - b) Without window functions
12. Find the cumulative sum of stages crossed over `start\_datetime` for each `P\_ID`, excluding the most recent `start\_datetime`.
13. Extract the top 3 highest sums of scores for each `Dev\_ID` and the corresponding `P\_ID`.
14. Find players who scored more than 50% of the average score, scored by the sum of scores for each `P\_ID`.
15. Create a stored procedure to find the top `n` `headshots\_count` based on each `Dev\_ID` and rank them in increasing order using `Row\_Number`. Display the difficulty as well.