### Power BI Project Questions for Madrid Real Estate Market Dataset(15 Marks For each Question)

1. Data Transformation and Cleanup

- Question: Identify and remove duplicated listings in the dataset. How would you use Power Query to manage duplicates and keep only the most recent listings based on the `id` and `is\_duplicated` columns?

- Focus Areas: Power Query, handling duplicates, conditional columns.

2. Price Analysis Based on Property Features

- Question: Create a report that analyzes how different features such as having a pool (`has\_pool`), garden (`has\_garden`), or being a new development (`is\_new\_development`) affect the average property price. Which feature correlates most strongly with higher prices?

- Focus Areas: DAX calculations for average, correlation analysis, visual slicing.

3. Market Segmentation for Investment Opportunities

- Question: Segment the property market into categories based on the `house\_type\_id`. For each category, calculate the average square meter price and identify the top 5 most lucrative investment opportunities based on `sq\_mt\_built` and `loan\_int\_rate`.

- Focus Areas: Segmentation, DAX for conditional metrics, Top N filtering.

4. Interactive Dashboard Creation

- Question: Design a comprehensive dashboard that includes filters for `region`, `is\_exterior`, `has\_pool`, and `is\_new\_development`. Incorporate visuals that dynamically adjust to show data such as average price, total listings, and average square meter price.

- Focus Areas: Interactive reports, dashboard design, slicers, bookmarks.

Submission Format :

1. Solve all the questions and after finishing the project, create one presentation.
2. You need to record a video explaining your project and all main points in 10 minutes. Upload that video on youtube and add the link in your presentation.
3. Submit that ppt on the portal exactly below from where you downloaded this docx file.