Experiment - 2

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Branch: AIT-CSE (BCT)

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Subject Name: ADBMS

UID: 23BCT10010

Section/Group: 23AIT-KRG -2A

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Subject Code: 23CSP-333

Problem Statement (Hard)

Financial Forecast Matching with Fallback Strategy.

You are a Data Engineer at FinSight Corp, a company that models **Net Present Value (NPV)** projections for investment decisions. Your system maintains two key datasets:

1. **Year_tbl**: Actual recorded NPV's of various financial instruments over different years:
- ID: Unique Financial instrument identifier.
- YEAR: Year of record
- NPV: Net Present Value in that year

2. **Queries_tbl**: A list of instrument-year pairs for which stakeholders are requesting NPV values:
- ID: Financial instrument identifier
- YEAR: Year of interest.

Find the **NPV** of each query from the **Queries** table. Return the output **order by ID and Year** in the sorted form.

However, not all ID-YEAR combinations in the Queries table are present in the Year_tbl. If an NPV is missing for a requested combination, **assume** it to be **0** to maintain a consistent financial report.

Code

(Attached as Exp 2 (Hard).sql)

Output

Project ID	Year	NPV
101	2019	113000
102	2018	0
102	2019	0
102	2020	30000
103	2019	40000
104	2018	121000
105	2019	12000