Esercizio sulle viste materializzate

Dato il seguente schema relazionale di un data mart

INCOME (<u>LID</u>, <u>SID</u>, <u>CID</u>, <u>TID</u>, #Consulting, Income)
SERVICE (<u>SID</u>, Service, ServiceType, ServiceCategory)
TIME (<u>TID</u>, Date, Month, 2M, 3M, 4M, 6M, Year)
LOCATION (LID, Headquarter, City, Region, Geographic_Area, #Consultants)
COMPANY (CID, ServiceCategory, CompanyType, Nationality)

Define the query in SQL associated with the materialized view that can be used to efficiently answer all three of the following queries:

- For each type of services and semester, select the total income and the total number of consulting, carried out by the consultants of the offices located in Lombardy.
- Considering only Italian and German companies, select for each region and service, the total income and the total number of consulting, separately for each year.
- Considering only the income of 2017, 2018, and 2019, for each service category and company nationality, select the six-month income and the average six-month income per consulting.

Considering the following statistics:

- Time period: 10 years
- Number of services ± 100
- Number of types ± 10
- Number of companies ± 200
- Number of headquarters ± 90
- Number of Nationalities ± 5
- Number of Region ± 10