

Materialized Views in Simple Language

📌 What is a Materialized View?

A materialized view is like a saved copy of a complex query result.

- Imagine you run a big query that takes a lot of time.
- A materialized view stores the result of that query, so you don't have to run it again and again.
- You can just read the saved result — which is much faster.

🔍 Example:

You want to know total sales per region. Instead of calculating it every time:

1. Create a materialized view:

```
CREATE MATERIALIZED VIEW sales_summary AS  
SELECT region, SUM(amount) FROM sales GROUP BY region;
```

2. Read the result:

```
SELECT * FROM sales_summary;
```

3. If new sales are added, refresh the view:

```
REFRESH MATERIALIZED VIEW sales_summary;
```

🔍 Key Points:

- 📌 Stores data - Saves query result in the database
- ⚡ Fast - Reading is faster because result is pre-computed
- 📌 Not auto-updated - You must run REFRESH to update it
- 📌 Good for reports - Useful for dashboards and summaries