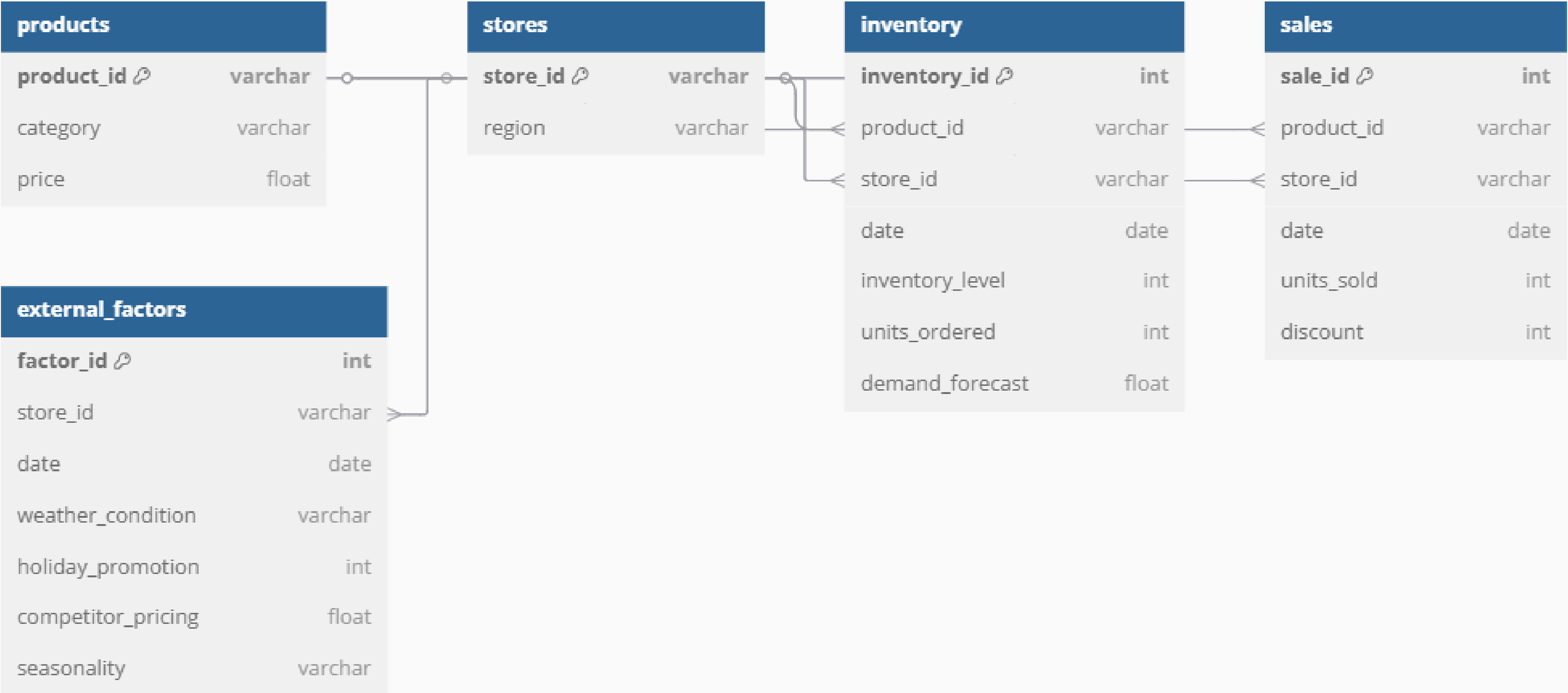


Description of ERD

Meet Jain
Muskan Verma

ERD Diagram



Products Table

Stores basic information about each product, such as its unique ID, category, and selling price.

Column	Description
product_id	Unique identifier for each product (PK)
category	Type or category of the product
price	Selling price of the product

Stores Table

Contains details of each retail store, including its unique ID and geographic region.

Column	Description
store_id	Unique ID for each store (PK)
region	Geographic region of the store

Inventory Table

Tracks the stock levels and replenishment details of products in different stores on specific dates.

Column	Description
inventory_id	Unique record ID (PK, auto-increment)
product_id	Product being tracked (FK → products)
store_id	Store where inventory is tracked (FK → stores)
date	Date of the inventory snapshot
inventory_level	Current quantity in stock
units_ordered	Units reordered from supplier
demand_forecast	System's forecast for upcoming demand

Sales Table

Records sales transactions of products in stores on specific dates.

Column	Description
sale_id	Unique sale record (PK, auto-increment)
product_id	Product sold (FK → products)
store_id	Store where sale occurred (FK → stores)
date	Date of sale
units_sold	Quantity of units sold
discount	Discount (%) applied to the sale

External_Factors Table

Captures influencing external conditions that might affect sales or inventory decisions.

Column	Description
factor_id	Unique record ID (PK, auto-increment)
store_id	Store where factor is observed (FK → stores)
date	Date of the observation
weather_condition	Weather status (e.g., Rainy, Sunny)
holiday_promotion	Indicates holiday/promo period (1 = Yes, 0 = No)
competitor_pricing	Price set by competing brands
seasonality	Season (e.g., Summer, Winter)

Thank you!!