# **Entity Relationship Diagram (ERD) for Sales Analysis** with User and Weather Data

Here's an Entity-Relationship Diagram (ERD) for the sales analysis database schema described previously:

#### **Entities:**

- **Customers:** Represents customer information.
- Sales: Represents individual sales transactions.

## Relationships:

 One-to-Many (Customers - Sales): A customer can have many sales, but a sale belongs to only one customer. This is enforced by a foreign key relationship between the customer\_id in the Sales table and the primary key (id) in the Customers table.

### Attributes:

- Customers:
  - o customer id (integer, primary key)
  - o name (string)
  - username (string)
  - o email (string, unique)
  - latitude (float)
  - longitude (float)
- Sales:
  - o order id (integer, primary key)
  - customer\_id (integer, foreign key references Customers id)
  - order amount (float)
  - quantity (integer)
  - order\_date (date)
  - o price (float)
  - temperature (float)
  - weather\_condition (string)

## **Visual Representation:**

Customers			Sales
PK <u>customer id int NOT NULL</u>	+	PK	order id int NOT NULL
customer_name char(255)	<u></u> ~≪	FK1	customer_id int NOT NULL
username char(255)			order_date date NOT NULL
email char(255) unique latitude float		'	order_amount float
longitude float			quantity integer
iongrado nout			price float
			temperature float
			weather_condition char(255)