

UrbanSpice Restaurant - Physical Data Model with Relationships

1. Customer

- customer_id (PK, INT)
- name (VARCHAR)
- email (VARCHAR)
- phone (VARCHAR)

2. Location

- location_id (PK, INT)
- name (VARCHAR)
- type (ENUM: Restaurant, Franchise, Food Truck)
- address (VARCHAR)
- city (VARCHAR)
- state (VARCHAR)

3. Employee

- employee_id (PK, INT)
- name (VARCHAR)
- role (VARCHAR)
- location_id (FK)

4. MenuItem

- menu_item_id (PK, INT)
- name (VARCHAR)
- description (TEXT)
- price (DECIMAL)

5. Order

- order_id (PK, INT)
- customer_id (FK)
- location_id (FK)
- order_date (DATETIME)
- total_amount (DECIMAL)

6. OrderItem

- order_item_id (PK, INT)
- order_id (FK)
- menu_item_id (FK)

- quantity (INT)

7. SalesTransaction

- transaction_id (PK, INT)
- order_id (FK)
- location_id (FK)
- payment_method (ENUM: Cash, Credit, Mobile)
- transaction_date (DATETIME)

8. Inventory

- inventory_id (PK, INT)
- location_id (FK)
- item_name (VARCHAR)
- quantity (INT)
- unit (VARCHAR)
- last_updated (DATETIME)

9. Supplier

- supplier_id (PK, INT)
- name (VARCHAR)
- contact_info (VARCHAR)

10. SupplierInventory

- id (PK, INT)
- supplier_id (FK)
- inventory_item (VARCHAR)

11. MarketingCampaign

- campaign_id (PK, INT)
- name (VARCHAR)
- start_date (DATE)
- end_date (DATE)
- budget (DECIMAL)

12. CampaignLocation

- id (PK, INT)
- campaign_id (FK)
- location_id (FK)

13. Feedback

- feedback_id (PK, INT)
- customer_id (FK)
- order_id (FK)
- rating (INT)
- comments (TEXT)
- submitted_at (DATETIME)

Relationship Summary:

1. A Customer can place multiple Orders.
2. Each Order is linked to a Location.
3. Each Order contains multiple MenuItem's via OrderItem.
4. Each SalesTransaction is linked to an Order and its Location.
5. Each Location manages its own Inventory and Employees.
6. Suppliers provide inventory items to locations via SupplierInventory.
7. MarketingCampaigns are linked to multiple Locations via CampaignLocation.
8. Customers can submit Feedback for their Orders.