**Ecommerce App Database Schema**

1. **User\_roles**
   1. Id, primary key
   2. Role\_name (varchar) (enum - Admin / Customer) default customer
2. **Users**
   1. Id, Primary key
   2. Role\_id (admin/customer) (integer - foreign key)
   3. Full name
   4. Email
   5. Password
   6. Phone\_number
   7. Created\_at (timestamp)
   8. Updated\_at (timestamp) - NULL
   9. Status (enum - active/inactive/block)
3. **Categories**
   1. id , Primary key
   2. Category\_name
   3. Url\_slug (unique) (text) (cat-name)
   4. Parent\_cat\_id, (integer)
   5. Status (active / inactive)
4. **Products**
   1. Id, Primary key
   2. Product\_name
   3. Url\_slug (unique)
   4. Cat\_id / category\_id (integer)
   5. Description (text)
   6. Price (float - 10,2)
   7. Stock\_quantity (integer)
   8. Status (active / inactive)
5. **Product\_variants**
   1. Id
   2. Product\_id
   3. Color (optional)
   4. Size (optional)
   5. Price (float - 10,2)
   6. Stock\_quantity (integer)
6. **Carts (user side not required currently)**
   1. Id, Primary key
   2. User\_id (foreign key - integer)
   3. Product\_id (foreign key - integer) - NULL
   4. Product\_variant\_id (foreign key - integer) - NULL
   5. Quantity (integer)
7. **Shipping\_addresses**
   1. Id, Primary key
   2. User\_id
   3. Full\_address
   4. Primary\_address (0/1)
   5. State
   6. City
   7. zip\_code
8. **Orders**
   1. Id
   2. Order\_number (unique number)
   3. User\_id
   4. Shipping\_address\_id
   5. Total\_amount (float) = 1500
   6. Discount\_amount (float) = 100
   7. Gross\_amount (float) = 1400
   8. Shipping\_amont (float) = 50
   9. net \_amount (float) = 1450
   10. Status (enum - placed / processing / shipping / delivered)
   11. Payment\_status (enum - paid / in progress / not paid)
   12. Payment\_type (enum - netbanking / upi / cod)
   13. Payment\_transaction\_id (varchar)
9. **order\_products**
   1. Id, Primary key
   2. Order\_id (Foreign key - orders)
   3. Product\_id (Foreign key - products)
   4. Product\_variant\_id (Foreign key - product\_variants)
   5. Product\_name
   6. Color (NULL)
   7. Size (NULL)
   8. Price (Float)
   9. Quantity (integer)
   10. Total\_amount (Float)
10. **Order\_shipping\_addresses**
    1. Id, primary key
    2. Order\_id (Foreign key - orders)
    3. Shipping\_address\_id
    4. Full\_address
    5. State
    6. City
    7. Zip\_code
11. **Wishlist**
    1. id , Primary key
    2. User\_id
    3. Product\_id
    4. Product\_variant\_id
12. **Offers / discounts**
    1. Id, Primary key
    2. Coupon\_code (varchar - unique)
    3. Discount\_type (enum - fixed / rate)
    4. Disocunt\_value (float)
    5. Start\_date (date)
    6. End\_date (date)
    7. Description (text)
    8. Status (active / inactive)

enum

Default, null, contraints

For every order\_id product id must be unique (constraint)