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Java Lab-1

E-commerce Domain: [Wrapkart.com/sleeky.in](http://Wrapkart.com/sleeky.in)

### **Entities :**

1. Admin – The administrator or owner of the website
2. Users/Customers – The customer who will come and purchase the products
3. Categories – A class or group of products (Electronics, Clothing)
4. Products – Different types of products on a website (Earphones, mobiles)
5. Seller – The one who is selling the products of the marketplace
6. Orders – The orders received on the website
7. Deliveries – orders that are supposed to be delivered to the customer
8. Transaction reports – details of tax invoices, GST.
9. Payment – reports of cash, non-cash payments, credits and personal transaction.
10. Customer details – personal details of the customer (address, name etc.)

What is an E-Commerce platform?

1. An e-commerce platform is a piece of software/website that allows both the buyer and the supplier to participate and carry out their respective functions. Basically, a consumer should be able to browse products on an e-commerce site, add them to their basket, and then check out.
2. E-commerce is purchasing and selling activities happening over the internet. The different types of commerce include:
  - a. B2B (business to business)
  - b. B2C (business to consumer)
  - c. C2C (consumer to consumer)
  - d. C2B (consumer to business)
3. Key points to note for an Ecommerce Platform:
  - a. Customers must be able to use a search feature to find a specific product, a cart feature to manage their orders, and a payment feature on an e-commerce platform.
  - b. A business has the option of using an e-commerce solution hosted by a cloud-based e-commerce provider like Shopify or hosting an e-commerce platform on-site.
  - c. Companies commit errors by failing to establish their objectives beforehand, selecting the incorrect e-commerce platform for their requirements, and failing to pay attention to security standards.
  - d. Future innovations in e-commerce stores will include the voice, IoT, and virtual reality (VR) industries.

## Attributes :

### 1. Admin –

1. Admin\_id (Int)
2. Admin\_name (String)
3. Admin\_password(String)
4. Admin\_email(String)
5. Admin\_phone (Int)
6. Admin\_education (String)
7. Admin\_age(Int)
8. Admin\_height(int)
9. Admin\_Experience(String)
10. Admin\_marital\_status(Char)(Y/N)

### 2. Users -

1. User\_id (Int)
2. User title(String)
3. User name (String)
4. User password(String)
5. User email(String)
6. User phone (Int)
7. User Alternative\_phone(Int)
8. User city (String)
9. User pincode(String)
10. User state(String)

### 3. Categories –

1. Cat id (int)
2. Cat name (String)
3. Cat Description(String)
4. Cat images (String – URL)
5. SKU (String)
6. Max-Min Price(Int)
7. Brands(String)
8. Variants(String)
9. Ratings(Int)
10. Marketing claims – (String)
  - i. Cuts grease in seconds
  - ii. Made of 100% cotton
  - iii. Kills 99.9% of germs

### 4. Products –

1. Product Name (String)
2. Product Images(String)
3. SKUs(String)
4. Retail Price & Cost Price(String)

5. BARCODE: (ISBN, UPC, GTIN, etc.) (String)
6. Weight(float)
7. Category(String)
8. Brand(String)
9. Product Type(String)
10. Variants (String)
11. Custom Attributes (String)
12. SEO Fields(String)

#### **5. Seller -**

1. Seller name (String)
2. Seller ID(Int)
3. Seller ratings(Int)
4. Seller brands(String)
5. Seller Categories(String)
6. Seller Sales(Int)
7. Seller address(String)
8. Seller experience(Float)
9. Seller success rate(Float)
10. Seller growth(Float)

#### **6. Orders –**

1. Order ID(Int)
2. Order Number(Int)
3. Order Amount(Int)
4. Order Status(String)
5. Order category(String)
6. Seller ID(Int)
7. Order Invoice no(Int)
8. Order delivery tracking details
9. Order delivery status(String)
10. Customer Id – to check repetitive customer orders

#### **7. Deliveries –**

1. Order number(Int)
2. Customer name(String)
3. Customer pin code(Int)
4. Customer address(String)
5. Order amount(Int)
6. Shipment ID(Int)
7. E-way Bill no ( if applicable )
8. Delivery status(String)
9. Delivered to - (String) ( name to whom the product is delivered it will reflect in the main portal of customer)
10. Delivery comments (String)– ( Customer comments at the time of delivery )

#### **8. Transaction reports –**

1. Transaction ID(Int)
2. Transaction amount (Int)
3. Total transactions – (Int)total no of transactions in a day
4. Transaction status(String)
5. Non cash transactions (Int)

6. Credit transactions(Int)
7. Cash transactions(Int)
8. B2B transactions(Int)
9. B2C transactions(Int)
10. Personal transactions(Int)

**9. Payments –**

1. Payment id(Int)
2. Payment no(Int)
3. Invoice no(Int)
4. Invoice id(Int)
5. Payment mode(Int)
6. Cash payments(Int)
7. Non cash payments(Int)
8. Gst % (Int)
9. Payment Status(String)
10. Payment receipt(Int)

**10. Customer details –**

1. Customer id (int)
2. Customer name(String)
3. Customer email(String)
4. Customer number (Int)
5. Customer orders
6. Customer transactions
7. Customer order success rate – Cod orders delivery and cancellation rate
8. Customer address (String)
9. Customer ratings (Int)
10. Order tracking(String)