

# PROJECT REPORT

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We have created a database named OnlineRetailStore which will contain all the tables required for our project. The tables have been created keeping in mind the entities and relationships defined in the ER diagram and relational model.

The following tables have been created in our database:

1. **AdminData:** This table stores all the admins of our online retail store who will have access to the database. It has the following attributes:
  - AdminID: A unique int id assigned to each admin used to identify them, that also acts as the primary key of this table. This is automatically incremented by SQL each time a new admin is added to the table.
  - AdminName: A varchar that stores the admin's name
  - AdminRole: A varchar that stores the admin's role. The admin's role is used to decide what level of access they will have to the database.
2. **Seller:** This table stores information about all the sellers that are registered on our Online Retail Store. It has the following attributes:
  - Seller\_id: A unique int id assigned to each seller to act as an identifier, that also acts as the table's primary key. This is automatically incremented by SQL each time a new seller gets added to the table.
  - Seller\_name: A varchar that stores the name of the seller.
  - Seller\_address: A varchar to store the seller's address
3. **Order:** This table contains information about all the orders placed on the store website. It has the attributes:
  - Order\_id: This is a unique int identifier that acts as the table's primary key. It is automatically incremented by SQL each time an order gets added to the table
  - Order\_date\_time: This is a datetime type attribute which stores the timestamp at which the order was placed in 'YYYY-MM-DD hh:mm:ss' format. The SQL function now() has been used to get this timestamp as soon as the order is added to the table.

- Delivery\_address: This is a varchar that stores the address to which the order needs to be delivered.
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- Order\_status: Varchar that shows the order's status(Dispatched, delivered,etc.)
- Order\_amount: Decimal that stores the amount to be paid for the order.
- Payment\_mode: Varchar which stores the mode of payment(Cash on Delivery, Card, Paytm,etc.)
- Coupon\_id: Int attribute storing the id of coupon applied on the order that acts as foreign key, linking this table to Coupons table. This value can be null since it is not necessary that a coupon is applied on every order.
- Tracking\_id: Int value containing a tracking id unique to every order that acts as foreign key and links this table to the order details table which has detailed information to track the order.

**4. Order\_details:** A table that contains detailed information about each order. Its attributes are:

- Tracking\_id: A unique int identifier associated with each order to track it. Acts as the primary key for this table.
- Shipper\_name: A varchar that contains the name of the shipper for the particular order.
- Location: A varchar storing the current location of the order.
- Expected\_delivery\_date: Stores the date the order is expected to be delivered by.

**5. Customer:** This table that contains the information about about the customer who have registered. Its attributes are:-

- Customer\_ID: A unique integer (auto incremented) associated with a customer. Acts as the primary key for this table.
- Phone\_number: A varchar storing the phone numbers of each customer.
- EmailAddress: A varchar storing the respective email address of the customers.
- CustomerAddress: A varchar storing the respective addresses of the customers.

- SavedPaymentMethod: A varchar storing the payment method used and saved by the customers.
- CustomerMembership: A varchar storing the respective membership of the customers.

**6. Coupon:** Stores all the coupons available on the store website. It has the following attributes:

- Coupon\_id: Int identifier unique to each coupon. Acts as the primary key and is automatically incremented by SQL.
- Coupon\_discount: Int value storing the percentage discount guaranteed by the coupon.
- Expiry\_date: Stores the date till which the coupon is valid

**7. Cart:** Stores products the customer has added to their cart. Its attributes are:

- ProductID: Int value that acts as foreign key and links this table to Product table.
- CustID: Int value acting as foreign key that links the cart to the customer.
- Product\_name: Varchar storing name of product added to cart
- Product\_quantity: Int that stores the quantity of product added to cart.
- Cost: Decimal value storing the cost corresponding to each product in the cart.

**8. WishList:** Stores the products that the customer adds to their wishlist. Attributes are:

- ProductID: Int value acting as foreign key that links this table to Product table.
- Product\_name: Varchar storing name of product added to wishlist.
- CustID: Int value that acts as foreign key and links wishlist to customer.

**9. Order\_history:** Stores the order history corresponding to a customer.

Attributes are:

- CustomerID: Int value acting as foreign key to link this table to customer table.
- Order\_id: Int value acting as foreign key to link to Orders table.

**10. Product\_category:** Stores the various product categories available on the store website. Attributes are:

- CategoryID: Unique int identifier that acts as primary key. Automatically incremented by SQL.
- Category\_name: Varchar storing the name of the category

**11.Product:** Stores every product present in the online retail store associated with a product category.

Its attributes are:

- Product\_ID: A unique integer associated with a product. Acts as the primary key for this table.
- Product\_name: A varchar storing the respective names of the products.
- Product\_brand: A varchar storing the respective brand names of the associated product.
- Available Quantity: A int storing the available quantity of the respected product.
- Product reviews: An int storing the ratings out of 5 for each product.
- Product Description: A text storing the details, specifications of each product.
- Product\_price: A decimal storing the respective price for each product.
- Category\_Id: A foreign key associating each product with a product category.

The data is randomly generated and some of them are manually generated to populate the databases. We have generated 100 entries in customers, product, orders, sellers, wishlist, cart table and 7 entries in product categories.