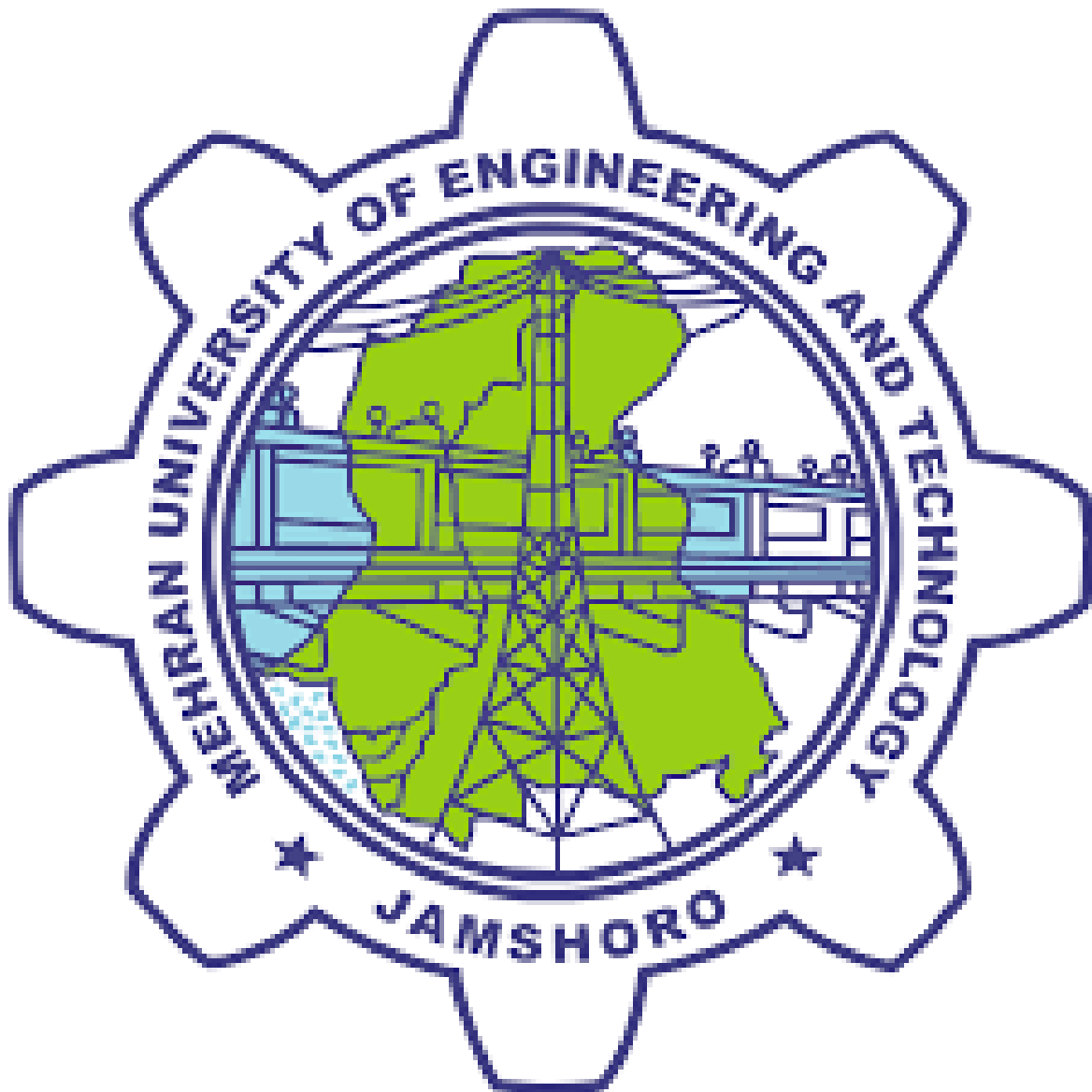


Name: ZOHAIB HASSAN SOOMRO

RollNo#: 19SW42

Subject: DBS



Online Book Sale Centre

```
graph TD
    Order --> OrderedBook
    Order --> Shipper
    Shipper --> OrderedBook
    Customer --> OrderedBook
    OrderedBook --> Books
```

The diagram illustrates the database structure for an Online Book Sale Centre. It consists of five tables: Order, OrderedBook, Books, Shipper, and Customer. The relationships are as follows:

- Order** (PK: orderId, int(4)) is connected to **OrderedBook** (FK: orderId, int(4)) via a one-to-many relationship.
- Order** (FK: customerId, int(4)) is connected to **Customer** (PK: customerId, int(4)) via a one-to-many relationship.
- Order** (FK: shipperId, int(4)) is connected to **Shipper** (PK: shipperId, int(4)) via a one-to-many relationship.
- Shipper** (FK: shipperId, int(4)) is connected to **OrderedBook** (FK: shipperId, int(4)) via a one-to-many relationship.
- Customer** (FK: customerId, int(4)) is connected to **OrderedBook** (FK: customerId, int(4)) via a one-to-many relationship.
- OrderedBook** (FK: bookId, int(4)) is connected to **Books** (PK: bookId, int(4)) via a one-to-many relationship.

Here normalization occurs.

Order		
PK	orderId	int(4)
FK	customerId	int(4)
FK	shipperId	int(4)

OrderedBook		
FK	orderId	int(4)
FK	bookId	int(4)
FK	shipperId	int(4)
FK	customerId	int(4)

Books		
PK	bookId	int(4)
	title	varchar(30)
	author	varchar(30)
	price	decimal(6,3)

Shipper		
PK	shipperId	int(4)
	name	varchar(30)
	phone_number	int(12)

Customer		
PK	customerId	int(4)
	name	varchar(30)
	address	varchar(50)

Normalized Form Tables

Books

bookId	title	author	price

Order

orderId	customerId	shipperId

OrderedBooks

orderId	bookId

Shipper

shipperId	name	phone_number

Customer

bookId	title	author

[illegible]