

# **LAPORAN DESIGN OF DATABASE**



Disusun oleh:

1. MOH. HILMAN FARIZ (1301213393)
2. RENATA ALFIANTO RASYID (1301213304)
3. ANDHIKA LOIZ (1301210336)
4. SYEHAN FARIZ GUSTOMO (1301210530)

Kelas : IF-45-09

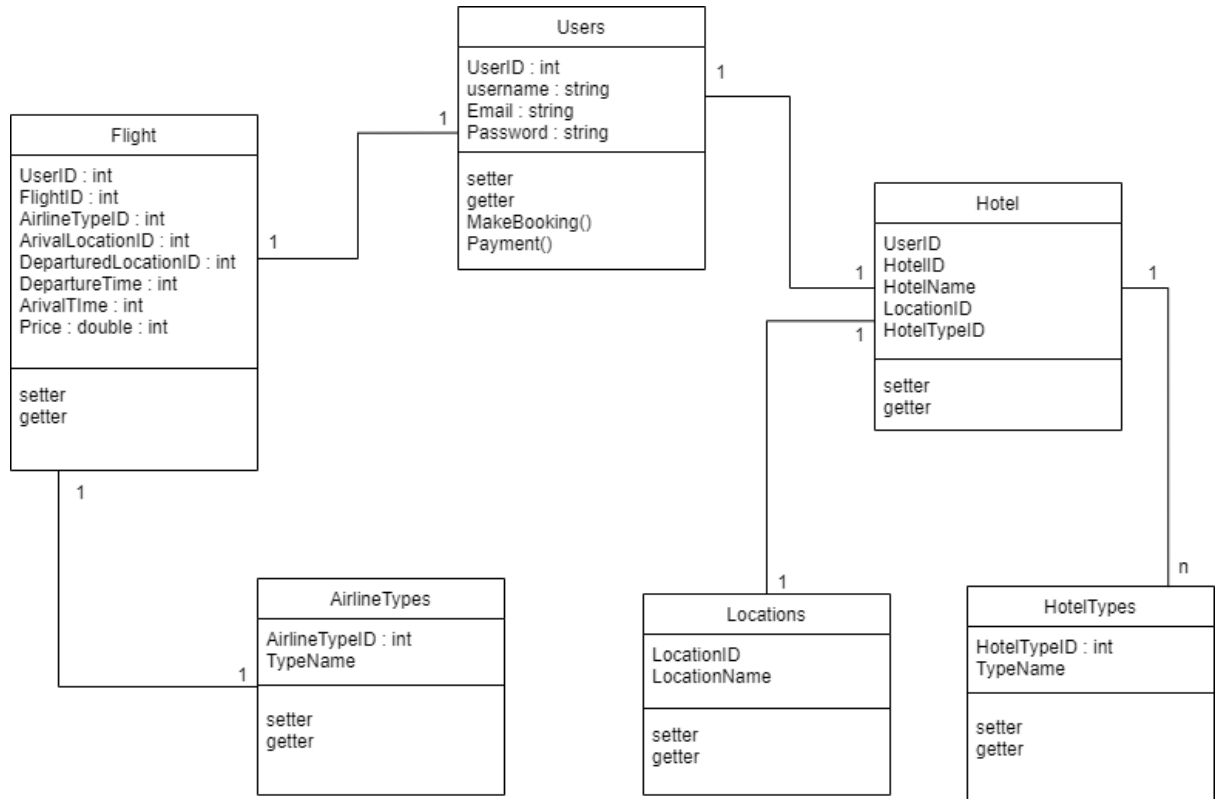
**PROGRAM STUDI S1 INFORMATIKA  
FAKULTAS INFORMATIKA  
UNIVERSITAS TELKOM  
BANDUNG  
2023**

Untuk poin a b pada soal 1 dan 2 ada di github, berikut untuk link githubnya:

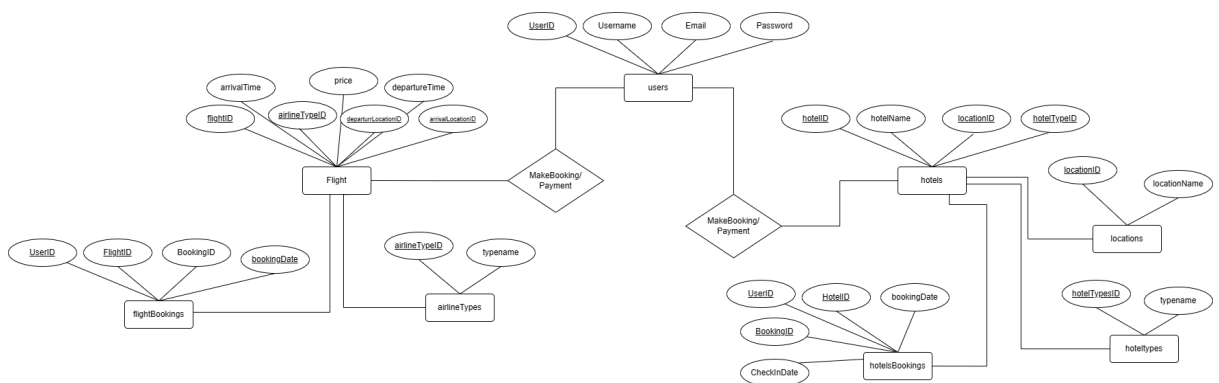
<https://github.com/MohHilmanFariz/mysql>

## 1. TRAVELOKA STUDY CASE

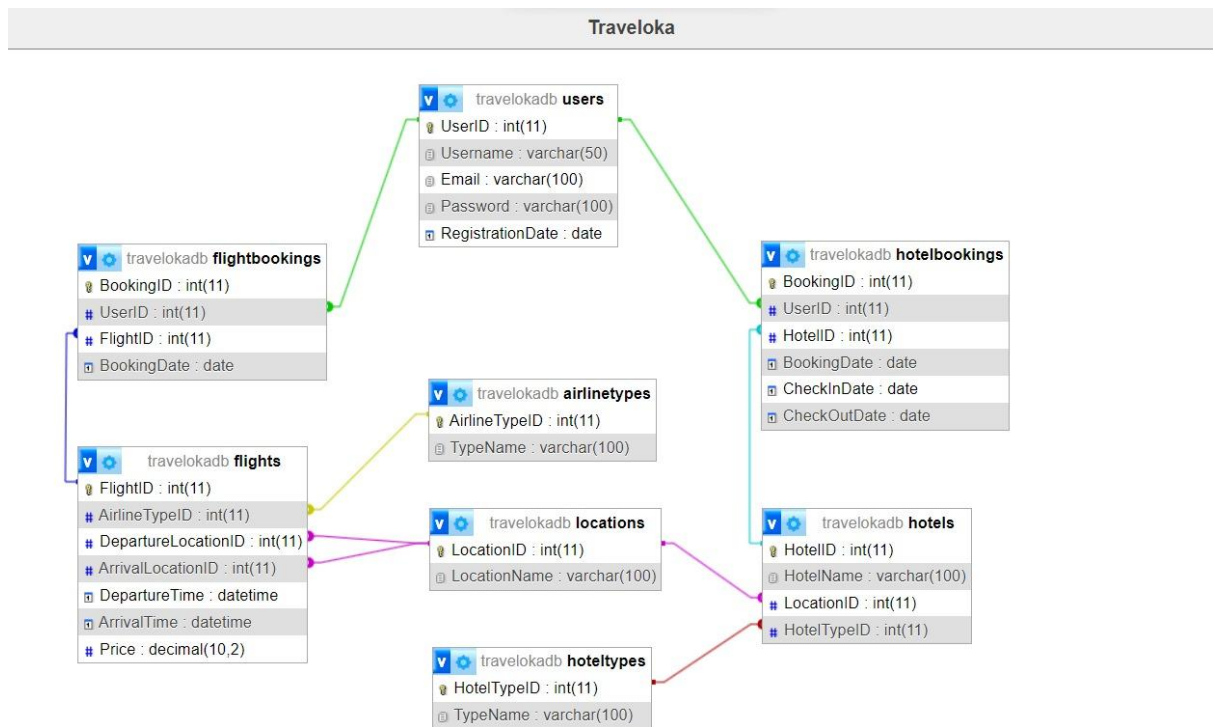
### a. Class diagram



### b. ERD



### c. Relation Schema



### d. Design Tables Structure

#### - airlinestype

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	<b>AirlineTypeID</b>	int(11)		No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	<b>TypeName</b>	varchar(100)	utf8mb4_general_ci	No	None			Change  Drop  More

#### - flightBooking

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	<b>BookingID</b>	int(11)		No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	<b>UserID</b>	int(11)		Yes	NULL			Change  Drop  More
<input type="checkbox"/>	3	<b>FlightID</b>	int(11)		Yes	NULL			Change  Drop  More
<input type="checkbox"/>	4	<b>BookingDate</b>	date		Yes	NULL			Change  Drop  More

## - flights

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	FlightID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	AirlineTypeID	int(11)			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	3	DepartureLocationID	int(11)			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	4	ArrivalLocationID	int(11)			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	5	DepartureTime	datetime			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	6	ArrivalTime	datetime			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	7	Price	decimal(10,2)			Yes	NULL			Change  Drop  More

## - hotelbooking

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	BookingID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	UserID	int(11)			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	3	HotelID	int(11)			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	4	BookingDate	date			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	5	CheckInDate	date			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	6	CheckOutDate	date			Yes	NULL			Change  Drop  More

## - hotels

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	HotelID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	HotelName	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3	LocationID	int(11)			Yes	NULL			Change  Drop  More
<input type="checkbox"/>	4	HotelTypeID	int(11)			Yes	NULL			Change  Drop  More

## - hoteltype

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	HotelTypeID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	TypeName	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More

☐ Check all 
 With selected: 
 Browse 
 Change 
 Drop 
 Primary 
 Unique 
 Index 
 Spatial 
 Fulltext

## - location

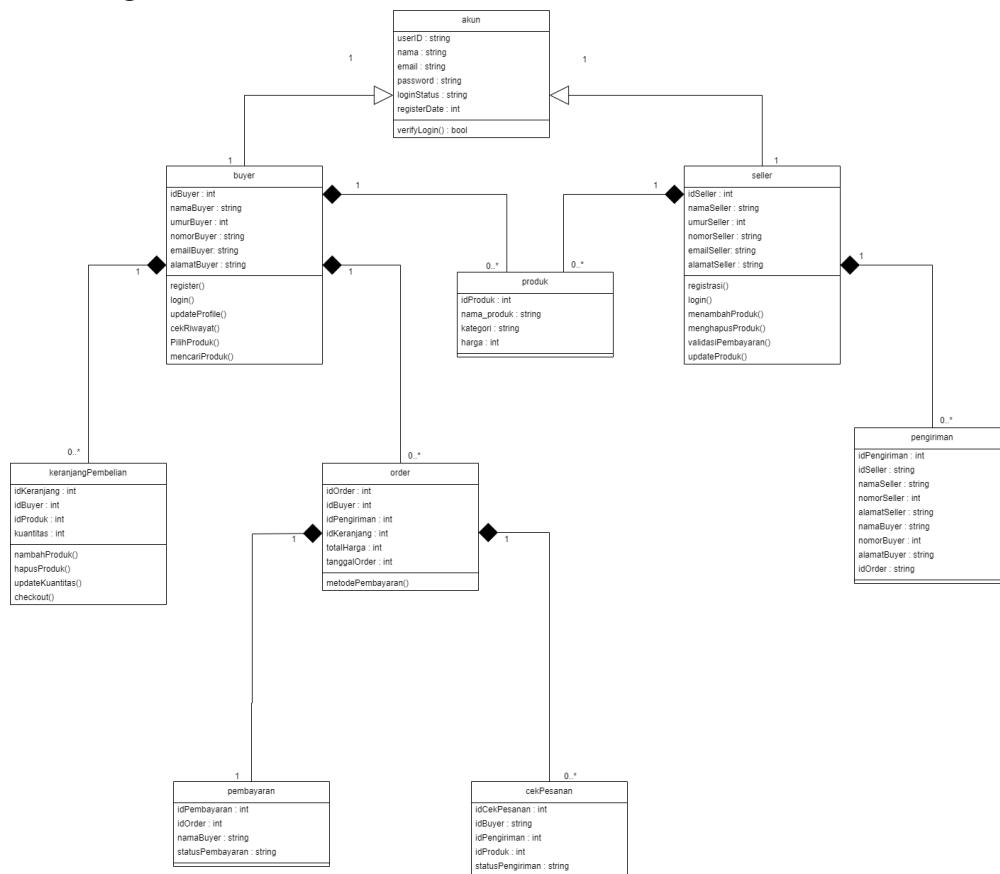
	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	LocationID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	LocationName	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More

- users

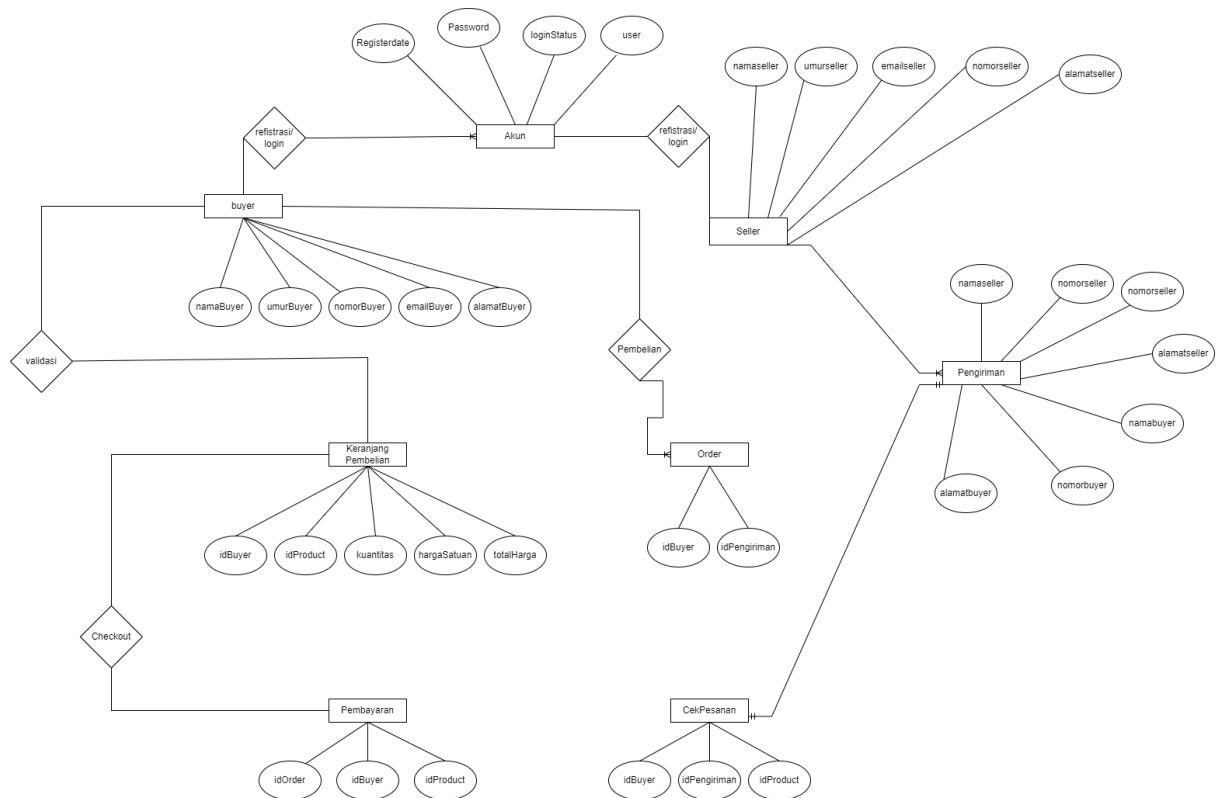
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 UserID	int(11)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 Username	varchar(50)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	3 Email	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	4 Password	varchar(100)	utf8mb4_general_ci		No	None			Change  Drop  More
<input type="checkbox"/>	5 RegistrationDate	date			Yes	NULL			Change  Drop  More

## 2. PROJECT MEASEAKU

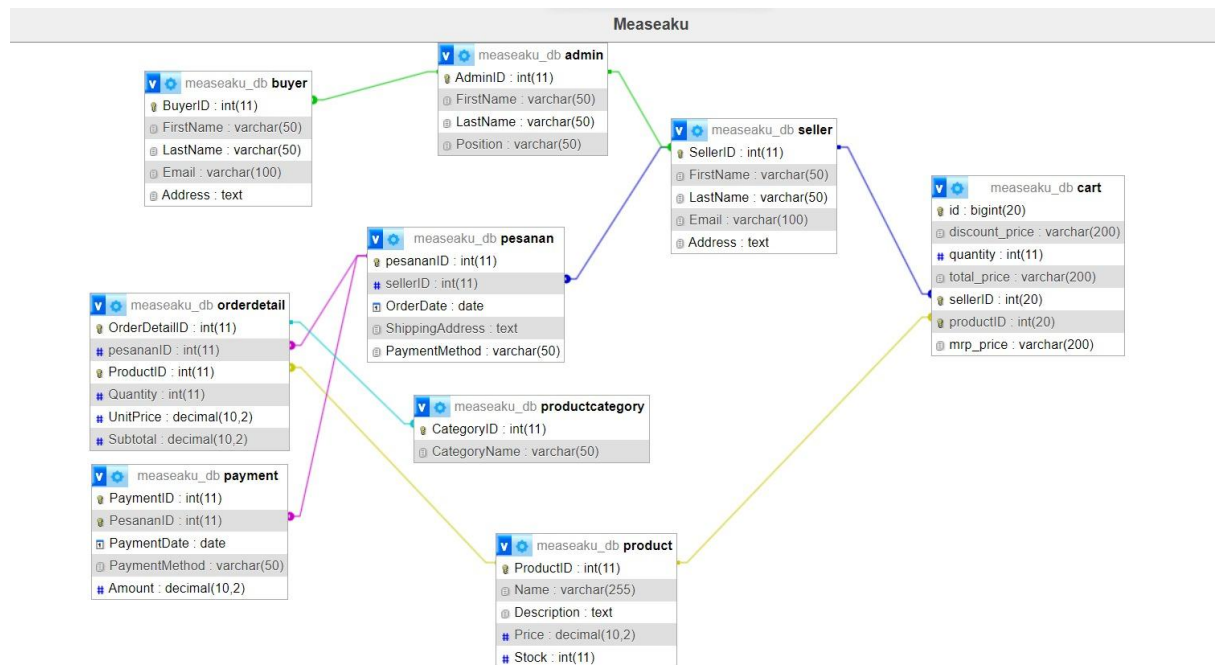
### a. Class diagram



## b. ERD




## c. Relation Schema




d. Design Tables Structure


- admin

#	Name	Type	Collation	Attributes	Null	Default
1	<b>AdminID</b> 	int(11)			No	None
2	<b>FirstName</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL
3	<b>LastName</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL
4	<b>Position</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL




- buyer

#	Name	Type	Collation	Attributes	Null	Default
1	<b>BuyerID</b> 	int(11)			No	None
2	<b>FirstName</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL
3	<b>LastName</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL
4	<b>Email</b>	varchar(100)	utf8mb4_general_ci		Yes	NULL
5	<b>Address</b>	text	utf8mb4_general_ci		Yes	NULL



- seller

#	Name	Type	Collation	Attributes	Null	Default
1	<b>SellerID</b> 	int(11)			No	None
2	<b>FirstName</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL
3	<b>LastName</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL
4	<b>Email</b>	varchar(100)	utf8mb4_general_ci		Yes	NULL
5	<b>Address</b>	text	utf8mb4_general_ci		Yes	NULL




- cart

#	Name	Type	Collation	Attributes	Null	Default
1	<b>id</b> 	bigint(20)			No	None
2	<b>discount_price</b>	varchar(200)	utf8mb4_general_ci		Yes	NULL
3	<b>quantity</b>	int(11)			No	None
4	<b>total_price</b>	varchar(200)	utf8mb4_general_ci		Yes	NULL
5	<b>sellerID</b> 	int(20)			Yes	NULL
6	<b>productID</b> 	int(20)			Yes	NULL
7	<b>mrp_price</b>	varchar(200)	utf8mb4_general_ci		Yes	NULL

- pesanan



#	Name	Type	Collation	Attributes	Null	Default
1	<b>pesananID</b> 	int(11)			No	None
2	<b>sellerID</b> 	int(11)			Yes	NULL
3	<b>OrderDate</b>	date			Yes	NULL
4	<b>ShippingAddress</b>	text	utf8mb4_general_ci		Yes	NULL
5	<b>PaymentMethod</b>	varchar(50)	utf8mb4_general_ci		Yes	NULL

- orderdetail


#	Name	Type	Collation	Attributes	Null	Default
1	<b>OrderDetailID</b> 	int(11)			No	None
2	<b>pesananID</b> 	int(11)			Yes	NULL
3	<b>ProductID</b> 	int(11)			Yes	NULL
4	<b>Quantity</b>	int(11)			Yes	NULL
5	<b>UnitPrice</b>	decimal(10,2)			Yes	NULL
6	<b>Subtotal</b>	decimal(10,2)			Yes	NULL




- payment

#	Name	Type	Collation	Attributes	Null	Default
1	<b>PaymentID</b> 	int(11)			No	<i>None</i>
2	<b>PesananID</b> 	int(11)			Yes	<i>NULL</i>
3	<b>PaymentDate</b>	date			Yes	<i>NULL</i>
4	<b>PaymentMethod</b>	varchar(50)	utf8mb4_general_ci		Yes	<i>NULL</i>
5	<b>Amount</b>	decimal(10,2)			Yes	<i>NULL</i>

- product

#	Name	Type	Collation	Attributes	Null	Default
1	<b>ProductID</b> 	int(11)			No	<i>None</i>
2	<b>Name</b>	varchar(255)	utf8mb4_general_ci		Yes	<i>NULL</i>
3	<b>Description</b>	text	utf8mb4_general_ci		Yes	<i>NULL</i>
4	<b>Price</b>	decimal(10,2)			Yes	<i>NULL</i>
5	<b>Stock</b>	int(11)			Yes	<i>NULL</i>

- productcategory

#	Name	Type	Collation	Attributes	Null	Default
1	<b>CategoryID</b> 	int(11)			No	<i>None</i>
2	<b>CategoryName</b>	varchar(50)	utf8mb4_general_ci		Yes	<i>NULL</i>