Information System Management Lab
BCOM 307

Assignment #30

Submitted by:

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Department of Commerce

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Assignment No. 30
Unit No:

Course/Subject Code: BCOM 307 **Subject Title: Information System Management Lab**
Issue Date **Last Date of Submission:**

Instructions for Students:

1. **All Questions are Compulsory.**
2. The student should attach proper cover page for each assignment clearly mentioning theAssignment No.
3. Each assignment should be prepared by the student individually with proper explaination andscreenshots.
4. A4 size ruled sheets should be used for the assignment.
5. Assignment pages should be serially numbered at the bottom of page.

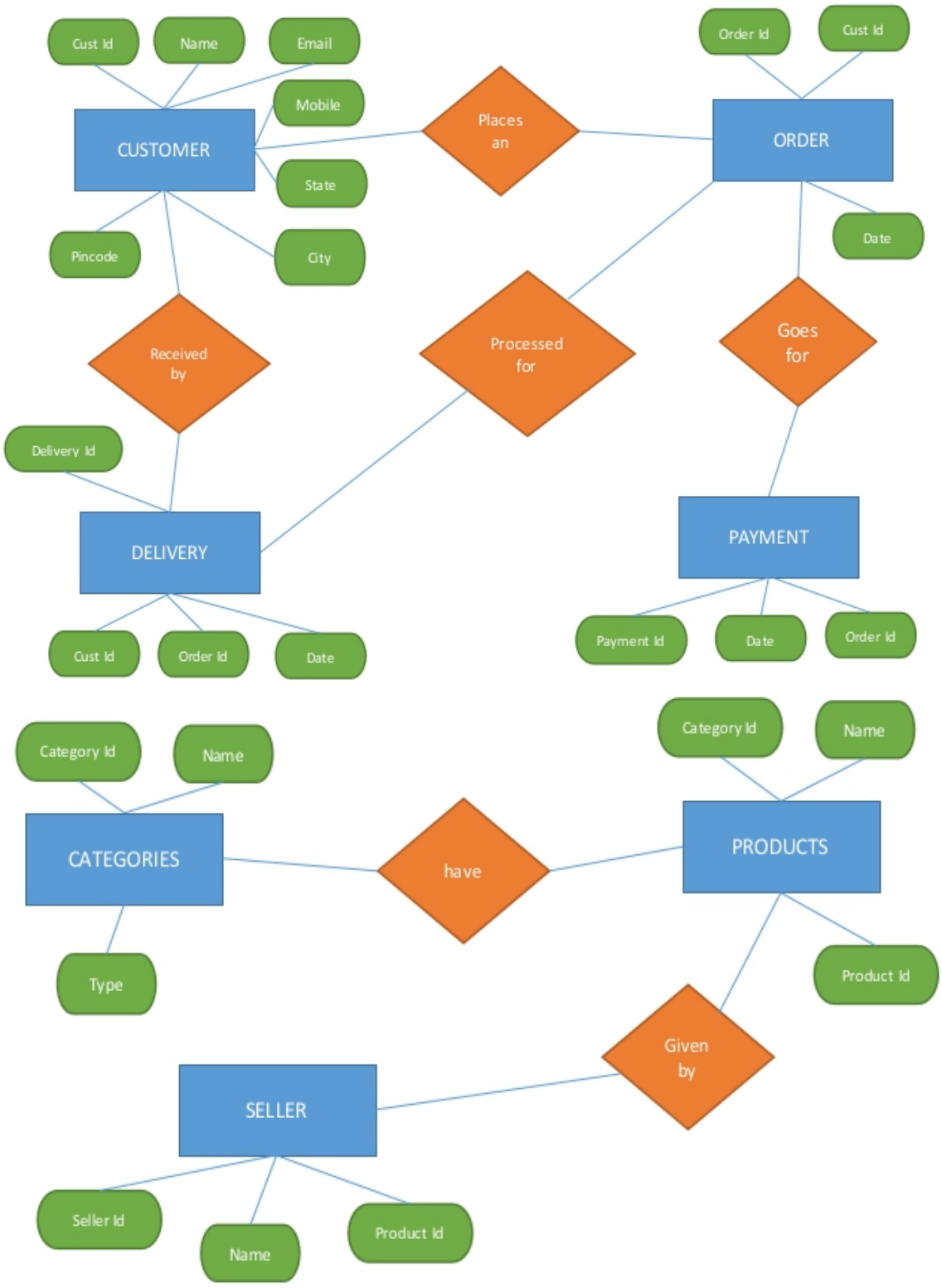
During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

Question No.	Question	CO No.
1	Draw an E-R diagram for an e-commerce site who sells the product online.	**CO1, CO2, CO6**
2	Convert the E-R diagram into tables accordingly.	
3	Make these tables in MySQL.	

ASSIGNMENT 30 - ER Diagram to Relational Model II

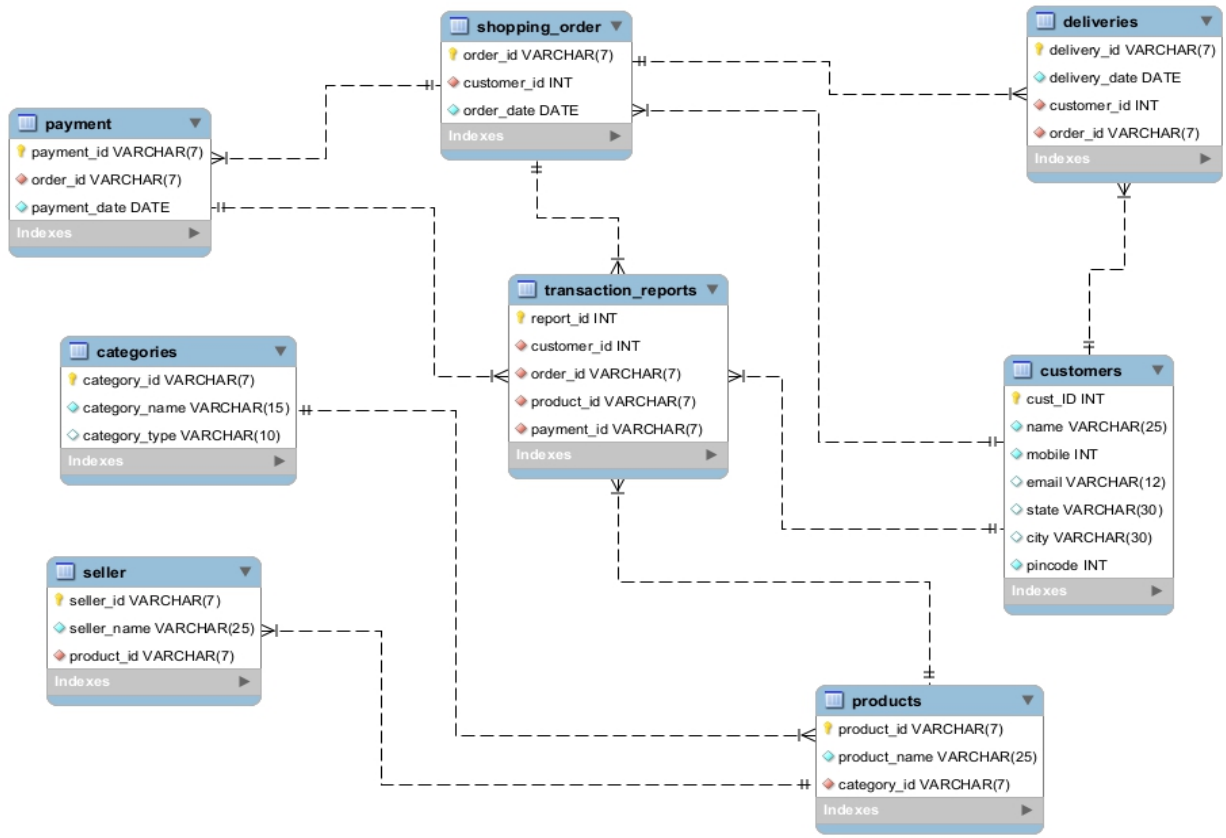
Task 1 : Draw an E-R diagram for an e-commerce site who sells the product online.

We need to create the E-R Model for the case. It would look like the one given below :



Task 2 : Convert the E-R diagram into tables accordingly.

Now, using this ER Diagram, it is time to create the relational model for the case. This is done as given below :



Task 3 : Create these tables in MySQL.

This task can be completed using the **CREATE TABLE** Command.

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Limit to 5000 rows

```
5
6  • create table customers (
7    cust_ID int primary key,
8    name varchar(25) not null,
9    mobile int(10) not null,
10   email varchar(12),
11   state varchar(30),
12   city varchar(30),
13   pincode int(6) not null
14   );
15
16 •  desc customers;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	cust_ID	int	NO	PRI	NULL	
2	name	varchar(25)	NO		NULL	
3	mobile	int	NO		NULL	
4	email	varchar(12)	YES		NULL	
5	state	varchar(30)	YES		NULL	
6	city	varchar(30)	YES		NULL	
7	pincode	int	NO		NULL	

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Limit to 5000 rows

```
17
18 • create table categories (
19    category_id varchar(7) primary key check(category_id like 'C%'),
20    category_name varchar(15) not null,
21    category_type varchar(10)
22    );
23
24 •  desc categories;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	category_id	varchar(7)	NO	PRI	NULL	
2	category_name	varchar(15)	NO		NULL	
3	category_type	varchar(10)	YES		NULL	

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Limit to 5000 rows

```
25
26 • create table products (
27    product_id varchar(7) primary key check(product_id like 'P%'),
28    product_name varchar(25) not null,
29    category_id varchar(7) not null, foreign key (category_id) references categories(category_id)
30    );
31
32 •  desc products;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	product_id	varchar(7)	NO	PRI	NULL	
2	product_name	varchar(25)	NO		NULL	
3	category_id	varchar(7)	NO	MUL	NULL	

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```
33
34 • create table seller (
35   seller_id varchar(7) primary key check(seller_id like 'S%'),
36   seller_name varchar(25) not null,
37   product_id varchar(7) not null, foreign key (product_id) references products(product_id)
38   );
39
40 •  desc seller;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	seller_id	varchar(7)	NO	PRI	NULL	
2	seller_name	varchar(25)	NO		NULL	
3	product_id	varchar(7)	NO	MUL	NULL	

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```
41
42 • create table shopping_order (
43   order_id varchar(7) primary key check(order_id like 'O%'),
44   customer_id int not null, foreign key (customer_id) references customers(cust_ID),
45   order_date date not null
46   );
47
48 •  desc shopping_order;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	order_id	varchar(7)	NO	PRI	NULL	
2	customer_id	int	NO	MUL	NULL	
3	order_date	date	NO		NULL	

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```
49
50 • create table payment (
51   payment_id varchar(7) primary key check(payment_id like 'M%'),
52   order_id varchar(7) not null, foreign key (order_id) references shopping_order(order_id),
53   payment_date date not null
54   );
55
56 •  desc payment;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	payment_id	varchar(7)	NO	PRI	NULL	
2	order_id	varchar(7)	NO	MUL	NULL	
3	payment_date	date	NO		NULL	

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Limit to 5000 rows

```
57
58 • create table deliveries (
59   delivery_id varchar(7) primary key check(delivery_id like 'D%'),
60   delivery_date date not null,
61   customer_id int not null, foreign key (customer_id) references customers(cust_ID),
62   order_id varchar(7) not null, foreign key (order_id) references shopping_order(order_id)
63   );
64
65 •  desc deliveries;
66
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	delivery_id	varchar(7)	NO	PRI	NULL	
2	delivery_date	date	NO		NULL	
3	customer_id	int	NO	MUL	NULL	
4	order_id	varchar(7)	NO	MUL	NULL	

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Limit to 5000 rows

```
65 •  desc deliveries;
66
67 • create table transaction_reports (
68   report_id int primary key,
69   customer_id int not null, foreign key (customer_id) references customers(cust_ID),
70   order_id varchar(7) not null, foreign key (order_id) references shopping_order(order_id),
71   product_id varchar(7) not null, foreign key (product_id) references products(product_id),
72   payment_id varchar(7) not null, foreign key (payment_id) references payment(payment_id)
73   );
74
75 •  desc transaction_reports;
76
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	Field	Type	Null	Key	Default	Extra
1	report_id	int	NO	PRI	NULL	
2	customer_id	int	NO	MUL	NULL	
3	order_id	varchar(7)	NO	MUL	NULL	
4	product_id	varchar(7)	NO	MUL	NULL	
5	payment_id	varchar(7)	NO	MUL	NULL	