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Class : TE 10

SL1 ASSIGNMENT 4

Problem Statement : Design & Develop DB for “Order Management System” with all the constraints. (There must be At least 3 entities and relationships between them.) . The statement should use SQL objects such as Table, View, Index, and Sequence. Draw suitable ER/EER diagram for the system. Apply DCL and DDL commands to convert ER/EER diagram to tables.

Creating the database

```
mysql> create database order_management;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> use order_management;
```

Database changed

Creating table customers

```
mysql> create table customer(cust_id int primary key, fname varchar(50), lname  
varchar(50), email varchar(50), phone_number int(15));
```

Query OK, 0 rows affected (0.02 sec)

Creating table contact

```
mysql> create table contact(cust_id int, phone_number int(15));
```

Query OK, 0 rows affected (0.05 sec)

Creating table orders

```
mysql> create table orders(order_id int primary key, prod_id int, cust_id int,  
quantity int, purchase_date date, city varchar(50));
```

Query OK, 0 rows affected (0.02 sec)

Creating table products

```
mysql> create table products(prod_id int, prod_name varchar(50), price int,  
category varchar(50));
```

Query OK, 0 rows affected (0.02 sec)

Adding foreign keys

```
mysql> alter table contact add foreign key(cust_id) references  
customer(cust_id);
```

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table contact add primary key(cust_id, phone_number);
```

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table orders add foreign key(cust_id) references customer(cust_id);
```

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table products add primary key(prod_id);
```

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table orders add foreign key(prod_id) references products(prod_id);
```

Query OK, 0 rows affected (0.15 sec)

Records: 0 Duplicates: 0 Warnings: 0

Describing all the created tables

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	int(11)	NO	PRI	NULL	
fname	varchar(50)	YES		NULL	
lname	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
phone_number	int(15)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> desc contact;
```

Field	Type	Null	Key	Default	Extra
cust_id	int(11)	NO	PRI	NULL	
phone_number	int(15)	NO	PRI	NULL	

2 rows in set (0.00 sec)

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
order_id	int(11)	NO	PRI	NULL	
prod_id	int(11)	YES	MUL	NULL	
cust_id	int(11)	YES	MUL	NULL	
quantity	int(11)	YES		NULL	
purchase_date	date	YES		NULL	
city	varchar(50)	YES		NULL	

6 rows in set (0.01 sec)

```
mysql> desc products;
```

Field	Type	Null	Key	Default	Extra
prod_id	int(11)	NO	PRI	NULL	
prod_name	varchar(50)	YES		NULL	
price	int(11)	YES		NULL	
category	varchar(50)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> alter table customer modify column phone_number double;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table contact modify column phone_number double;
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Inserting values in “customer” table

```
mysql> insert into customer values(1, 'prajakta', 'keer', 'pkeer@gmail.com',
9089786756), (2, 'shravani', 'indapure', 'shravani@gmail.com', 9021977490), (3,
'janhavi', 'patil', 'jpatil@gmail.com', 9087654321), (4, 'arnavi', 'joshi',
'ajoshi@gmail.com', 9012345678), (5, 'rishita', 'jadhav', 'rjadhav@gmail.com',
9087654321), (7, 'elina', 'fernandes', 'elina@gmail.com', 9102837465), (8,
'anushree', 'kamble', 'akamble@gmail.com', 91112223334), (9, 'priety', 'saha',
'psaha@gmail.com', 98887776665), (10, 'jyoti', 'verma', 'jverma@gmail.com',
7719916429);
Query OK, 9 rows affected (0.01 sec)
Records: 9 Duplicates: 0 Warnings: 0
```

```
mysql> update customer set fname = 'raveena' where cust_id = 4;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update customer set fname = 'ravi' where cust_id = 10;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from customer;
```

cust_id	fname	lname	email	phone_number
1	prajakta	keer	pkeer@gmail.com	9089786756
2	shravani	indapure	shravani@gmail.com	9021977490
3	janhavi	patil	jpatil@gmail.com	9087654321
4	raveena	joshi	ajoshi@gmail.com	9012345678
5	rishita	jadhav	rjadhav@gmail.com	9087654321
7	elina	fernandes	elina@gmail.com	9102837465
8	anushree	kamble	akamble@gmail.com	91112223334
9	priety	saha	psaha@gmail.com	98887776665
10	ravi	verma	jverma@gmail.com	7719916429

```
9 rows in set (0.00 sec)
```

Inserting values in “contact” table

```
mysql> insert into contact values(1, 9089786756), (2, 9021977490), (3,
9087654321), (4, 9012345678), (5, 9087654321 ), (7, 9102837465), (8,
9111222333), (9, 9888777666), (10, 7719916429);
Query OK, 9 rows affected (0.00 sec)
Records: 9 Duplicates: 0 Warnings: 0
```

```
mysql> select * from contact;
```

cust_id	phone_number
1	9089786756
2	9021977490
3	9087654321
4	9012345678
5	9087654321
7	9102837465
8	9111222333
9	9888777666
10	7719916429

```
9 rows in set (0.00 sec)
```

Inserting values in “orders” table

```
mysql> insert into orders values(1001, 105, 1, 1, '2020-2-2', 'pune'), (1002, 104, 2, 2, '2010-3-3', 'nagpur'), (1003, 103, 3, 3, '2001-2-8', 'mumbai'), (1004, 102, 4, 4, '2003-2-2', 'nashik'), (1005, 101, 5, 1, '2016-8-22', 'pune'), (1006, 106, 3, 2, '2016-8-22', 'pune'), (1007, 107, 7, 3, '2015-5-5', 'nagpur'), (1008, 108, 8, 4, '2005-5-5', 'mumbai'), (1009, 109, 9, 1, '2015-9-9', 'nashik'), (1010, 110, 10, 1, '2001-5-23', 'nagpur'), (1011, 105, 1, 2, '2012-12-12', 'mumbai'), (1012, 104, 2, 3, '1997-9-5', 'nashik'), (1013, 103, 3, 4, '1999-5-25', 'pune'), (1014, 102, 4, 1, '2011-8-15', 'nagpur'), (1015, 101, 5, 2, '2020-11-21', 'mumbai');
```

```
Query OK, 15 rows affected (0.01 sec)
```

```
Records: 15 Duplicates: 0 Warnings: 0
```

```
mysql> alter table orders add column amount int after quantity;
```

```
Query OK, 0 rows affected (0.13 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> update orders set amount = 2500 where order_id = 1001;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update orders set amount = 10000 where order_id = 1002;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update orders set amount = 6000 where order_id = 1003;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update orders set amount = 4000 where order_id = 1004;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update orders set amount = 50000 where order_id = 1005;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update orders set amount = 1000 where order_id = 1006;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update orders set amount = 165000 where order_id = 1007;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 3200 where order_id = 1008;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 1200 where order_id = 1009;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 300 where order_id = 1010;  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 5000 where order_id = 1011;  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 15000 where order_id = 1012;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 12000 where order_id = 1013;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 1000 where order_id = 1014;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update orders set amount = 10000 where order_id = 1015;  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from orders;
```

order_id	prod_id	cust_id	quantity	amount	purchase_date	city
1001	105	1	1	2500	2020-02-02	pune
1002	104	2	2	10000	2010-03-03	nagpur
1003	103	3	3	6000	2001-02-08	mumbai
1004	102	4	4	4000	2003-02-02	nashik
1005	101	5	1	50000	2016-08-22	pune
1006	106	3	2	1000	2016-08-22	pune
1007	107	7	3	165000	2015-05-05	nagpur
1008	108	8	4	3200	2005-05-05	mumbai
1009	109	9	1	1200	2015-09-09	nashik
1010	110	10	1	300	2001-05-23	nagpur
1011	105	1	2	5000	2012-12-12	mumbai
1012	104	2	3	15000	1997-09-05	nashik
1013	103	3	4	12000	1999-05-25	pune
1014	102	4	1	1000	2011-08-15	nagpur
1015	101	5	2	10000	2020-11-21	mumbai

```
15 rows in set (0.00 sec)
```

Inserting values in “products” table

```
mysql> insert into products values(101, 'apple7', 50000, 'electronics'), (102, 'football', 1000, 'sports'), (103, 'sanitizer', 2000, 'healthcare'), (104, 'jersey', 5000, 'sports'), (105, 'sweatshirt', 2500, 'clothing'), (106, '3 ply masks', 500, 'healthcare'), (107, 'macbook', 55000, 'electronics'), (108, 'saree', 800, 'clothing'), (109, 'carpet', 1200, 'decor'), (110, 'disinfectant', 300, 'healthcare');
```

```
Query OK, 10 rows affected (0.00 sec)
```

```
Records: 10  Duplicates: 0  Warnings: 0
```

```
mysql> select * from products;
```

prod_id	prod_name	price	category
101	apple7	50000	electronics
102	football	1000	sports
103	sanitizer	2000	healthcare
104	jersey	5000	sports
105	sweatshirt	2500	clothing
106	3 ply masks	500	healthcare
107	macbook	55000	electronics
108	saree	800	clothing
109	carpet	1200	decor
110	disinfectant	300	healthcare

```
10 rows in set (0.00 sec)
```