Case Study 02 EShop

create database E_shop;

use E_shop;

create table customer

(

  customer_id integer primary key

  auto_increment not null,

  contomer_name varchar(50) not null,

  phone int not null,

  email varchar(50),

  address varchar(200) not null

);

desc customer;

Output:

Field	Type	Null	Key	Default	Extra
customer_id	int	NO	PRI	NULL	auto_increment
contomer_name	varchar(50)	NO		NULL	
phone	int	NO		NULL	
email	varchar(50)	YES		NULL	
address	varchar(200)	NO		NULL	

create table product_info

(

  product_id int not null primary key

  auto_increment,

  product_name varchar(50) not null,

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    product_type varchar(50) not null,

    quantity int not null,

    price decimal(10,2) not null
);
```

desc product_info;

Output:

Field	Type	Null	Key	Default	Extra
product_id	int	NO	PRI	NULL	auto_increment
product_name	varchar(50)	NO		NULL	
product_type	varchar(50)	NO		NULL	
quantity	int	NO		NULL	
price	decimal(10,2)	NO		NULL	
pro_category	enum('Perishable','non-Perishable')	NO		NULL	

```
create table order_details
(

    order_id int not null primary key

    auto_increment,

    order_date date not null,

    order_address varchar(200) not null,

    quantity int not null,

    product_id int not null,

    foreign key(product_id) references product_info(product_id)
);
```

desc order_details;

Output:

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	auto_increment
order_date	date	NO		NULL	
order_address	varchar(200)	NO		NULL	
quantity	int	NO		NULL	
product_id	int	NO	MUL	NULL	
pay_category	enum('Paid','not-paid')	NO		NULL	

create table shipping

(

 ship_id int primary key

 auto_increment,

 delivery_date date not null,

 sip_add varchar(200) not null,

 quant decimal(10,2) not null,

 ord_status varchar(10) not null,

 order_id int not null,

 foreign key(order_id) references order_details(order_id)

);

desc shipping;

Output:

Field	Type	Null	Key	Default	Extra
ship_id	int	NO	PRI	NULL	auto_increment
delivery_date	date	NO		NULL	
sip_add	varchar(200)	NO		NULL	
quant	decimal(10,2)	NO		NULL	
ord_status	varchar(10)	NO		NULL	
order_id	int	NO	MUL	NULL	

insert into customer values(457968, 'Emma Johnson', 1234567, 'emma@gmail.com', '123 Main Street, Anytown, USA');

insert into customer (contomer_name, phone, email, address)

values('Liam Smith', 9876543, 'liam@gmail.com', '456 Elm Avenue, Cityville, USA'),

('Olivia Brown', 7890123, 'olivia@gmail.com', '789 Oak Lane, Suburbia, USA'),

('Noah Lee', 2345678, 'noah@gmail.com', '567 Maple Street, Villagetown, USA'),

('Ava Garcia', 3456789, 'ava@gmail.com', '890 Pine Road, Countryside, USA'),

('Oliver Rodriguez', 8765432, 'oliver@gmail.com', '1234 Cedar Court, Hamletville, USA'),

('Sophia Martinez', 4321098, 'sophia@gmail.com', '5678 Birch Lane, Riverside, USA'),

('Lucas Adams', 2109876, 'lucas@gmail.com', '901 Elm Street, Lakeside, USA'),

('Mia Turner', 6789012, 'mia@gmail.com', '345 Oak Avenue, Mountainview, USA'),

('Ethan White', 7891234, 'ethan@gmail.com', '678 Maple Road, Hillside, USA');

select * from customer;

Output:

customer_id	contomer_name	phone	email	address
457968	Emma Johnson	1234567	emma@gmail.com	123 Main Street, Anytown, USA
457969	Liam Smith	9876543	liam@gmail.com	456 Elm Avenue, Cityville, USA
457970	Olivia Brown	7890123	olivia@gmail.com	789 Oak Lane, Suburbia, USA
457971	Noah Lee	2345678	noah@gmail.com	567 Maple Street, Villagetown, USA
457972	Ava Garcia	3456789	ava@gmail.com	890 Pine Road, Countryside, USA
457973	Oliver Rodriguez	8765432	oliver@gmail.com	1234 Cedar Court, Hamletville, USA
457974	Sophia Martinez	4321098	sophia@gmail.com	5678 Birch Lane, Riverside, USA
457975	Lucas Adams	2109876	lucas@gmail.com	901 Elm Street, Lakeside, USA
457976	Mia Turner	6789012	mia@gmail.com	345 Oak Avenue, Mountainview, USA

insert into product_info values(1205042465, 'Pepricano', 'Spices', 4678, 69.45, 'Perishable');

insert into product_info (product_name, product_type, quantity, price, pro_category)

values('Banabis', 'fruit powder', 1200, 250.45, 'Perishable'),

('Milky', 'Milk Powder', 4500, 100, 'Perishable'),

('Moring', 'Moringa Pwder', 7500, 890.75, 'Perishable'),

('Apple Piece', 'Frozen Fruit', 250, 78.2, 'Perishable'),

('Bacony', 'Frozen Meat', 7933, 799.63, 'Perishable'),

('Bluberb', 'Frozen Frruit', 788, 899.00, 'Perishable'),

('Chick Chow', 'Noodles', '5200', 25.22, 'Perishable'),

('Chick Pea', 'Soup', '999', 55.56, 'Perishable');

insert into order_details values(89020124, '2024-04-02', '21/7, canning streen, USA', 12, '1205042465', 'Paid');

insert into order_details(order_date, order_address, quantity, product_id, pay_category)

values('2024-04-28', '9/7 Humping street USA', 45, 1205042467, 'not-paid'),

('2024-03-01', '2/1 Cussion street USA', 5, 1205042468, 'not-paid'),

('2024-03-01', '221 Curzon Street USA', 2, 1205042469, 'Paid'),

('2024-03-02', '221 Curzon Street USA', 36, 1205042473, 'Paid');

select * from product_info;

Output:

product_id	product_name	product_type	quantity	price	pro_category
1205042465	Pepricano	Spices	4678	69.45	Perishable
1205042466	Banabis	fruit powder	1200	250.45	Perishable
1205042467	Milky	Milk Powder	4500	100.00	Perishable
1205042468	Moring	Moringa Pwder	7500	890.75	Perishable
1205042469	Apple Piece	Frozen Fruit	250	78.20	Perishable
1205042470	Bacony	Frozen Meat	7933	799.63	Perishable
1205042471	Bluberb	Frozen Frruit	788	899.00	Perishable
1205042472	Chick Chow	Noodles	5200	25.22	Perishable
1205042473	Chick Pea	Soup	999	55.56	Perishable

select * from order_details;

Output:

order_id	order_date	order_address	quantity	product_id	pay_category
89020124	2024-04-02	21/7, canning streen, USA	12	1205042465	Paid
89020125	2024-04-28	9/7 Humping street USA	45	1205042467	not-paid
89020126	2024-03-01	2/1 Cussion street USA	5	1205042468	not-paid
89020127	2024-03-01	221 Curzon Street USA	2	1205042469	Paid
89020128	2024-03-02	221 Curzon Street USA	36	1205042473	Paid
NULL	NULL	NULL	NULL	NULL	NULL

SET FOREIGN_KEY_CHECKS = 0;

INSERT INTO shipping VALUES (2030856, '2024-04-07', '21/7, Canning Street, USA', 12, 'Delivered', '1205042465');

SET FOREIGN_KEY_CHECKS = 1;

SET FOREIGN_KEY_CHECKS = 0;

insert into shipping (delivery_date, sip_add, quant, ord_status, order_id)

values('2024-05-05', '9/7 Humping street USA', 45, 'Delivered', 1205042467),

('2024-03-08', '221 Curzon Street USA', 2, 'Returned', 1205042469),

('2024-03-09', '221 Curzon Street USA', 36, 'Delivered', 1205042473);

SET FOREIGN_KEY_CHECKS = 1;

select * from shipping;

Output:

	ship_id	delivery_date	sip_add	quant	ord_status	order_id
▶	2030856	2024-04-07	21/7, Canning Street, USA	12.00	Delivered	1205042465
	2030857	2024-05-05	9/7 Humping street USA	45.00	Delivered	1205042467
	2030858	2024-03-08	221 Curzon Street USA	2.00	Returned	1205042469
	2030859	2024-03-09	221 Curzon Street USA	36.00	Delivered	1205042473
*	NULL	NULL	NULL	NULL	NULL	NULL

CREATE USER 'John'@'localhost' IDENTIFIED BY 'password';

GRANT SELECT ON e_shop.customer TO "john"@"localhost";

select user();

GRANT CREATE USER, GRANT OPTION ON *.* TO 'root'@'localhost';

FLUSH PRIVILEGES;

use e_shop;

revoke select ON e_shop.customer from "john"@"localhost";

GRANT SELECT (customer_id, contomer_name) ON e_shop.customer TO "john"@"localhost";