Task 1:

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create table if not exists customers (
cust ID int primary key auto increment,
title varchar(20) not null,
first name varchar(20) not null,
middle name varchar(20),
last name varchar(20) not null,
suffix varchar(4),
email varchar(20),
company varchar(20),
display name varchar(20),
print_on_check_as varchar(20),
billing street varchar(20) not null,
billing_city varchar(20) not null,
billing state varchar(20) not null,
billing_zip int not null,
billing_country varchar(20) not null,
shipping street varchar(20),
shipping_city varchar(20),
shipping state varchar(20),
shipping zip int,
shipping_country varchar(20) -- if shipping info null, then same as billing
);
create table if not exists orders(
order ID int primary key auto increment,
cust_ID int not null,
invoice creation date date,
delivery_due_date date,
payment_due_date date,
custom message varchar(20),
foreign key (cust ID) references customers(cust ID)
);
create table if not exists products (
product ID PK int primary key auto increment,
name varchar(20) not null,
description varchar(100),
price double not null
);
create table if not exists orderproducts (
order product ID PK int primary key auto increment,
product_ID int auto_increment,
```

```
quantity int not null,
foreign key (order_ID) references orders(order_ID),
foreign key (product ID) references products(product ID PK)
);
Task 2:
insert into customers
values
('customer1', 'McKenzie', 'Treasure', 'Church', 'Ms.', 'tchurch1@my.westga.edu',
null, 'tchurch1', null, 'Maple St.', 'Carrollton', 'Georgia', 30117, 'United States'),
('customer2', 'Raihan', null, 'Ahmed', 'Mr.', 'rahmed@westga.edu', 'UWG', 'rahmed',
null, 'Maple St.', 'Carrollton', 'GA', 30117, 'United States'),
('customer3', 'Provolone', 'the Cat', 'Church', 'Sir', null, null, 'provolonethekitty',
'Sir Provolone', 'Lovvorn Rd', 'Carrollton', 'Georgia', 30117, 'U.S.A');
insert into products
values
('large box', 'large beautiful box for cat to sit in.', 50.00),
('small box', 'small box for human to buy for cat to sit in.', 100.99),
('socks', 'socks for human to use, but cat steals anyways', 20.50);
insert into orders
values
(1, date(now()), 2023-02-03, 2023-02-03, null),
(1, 2022-12-25, 2022-12-31, 2022-12-25, 'merry christmas'),
(2, 2023-01-20, 2023-02-01, 2023-01-20, 'I will love this box.');
insert into orderproducts
values
(1, 3, 2),
(1, 1, 1),
(3, 3, 1);
Task 3:
-- Find the payment due dates for all the orders where the due date is less than the
-- current date to find out overdue payments. You have to show the invoice number
-- and customer's full name
select orders.payment_due_date as 'Payment Due',
orders.invoice creation date as 'Invoice Num.',
concat(customers.first_name, '', customers.middle_name, '', customers.last_name)
from orders
join customers
on orders.custID_FK=customers.cust_ID_PK
```

where orders.payment_due_date < date(now());

- -- Find the products bought by a customer with the first name John. You must show
- -- the product names

select products.name as 'Product',
customers.first_name as 'First Name'
from products
join orderproducts
on products.product_ID=orderproducts.product_ID
join orders
on customers.cust_ID_PK=orders.cust_ID_FK
where customers.first_name='John';

-- Find the products (only name) sold in the month of February

select products.name as 'Product'
from products
join orderproducts
on orderproducts.product_ID_FK=products.product_ID
join orders
on orders.order_ID=orderproducts.order_ID
where orderproducts.order_ID < 2023-02-01 and orderproducts.order_ID > 2023-02-28;

-- Find the order total for order id 3

select sum(products.price) as 'Total Price' from products join orderproducts on products.product_ID=orderproducts.product_ID_FK where orderproducts.order_ID=3;

-- Find the best selling product in the year 2022

select max(orderproducts.quantity) as 'Amount', products.name as 'Product' from orderproducts join products on orderproducts.product_ID_FK=products.product_ID;