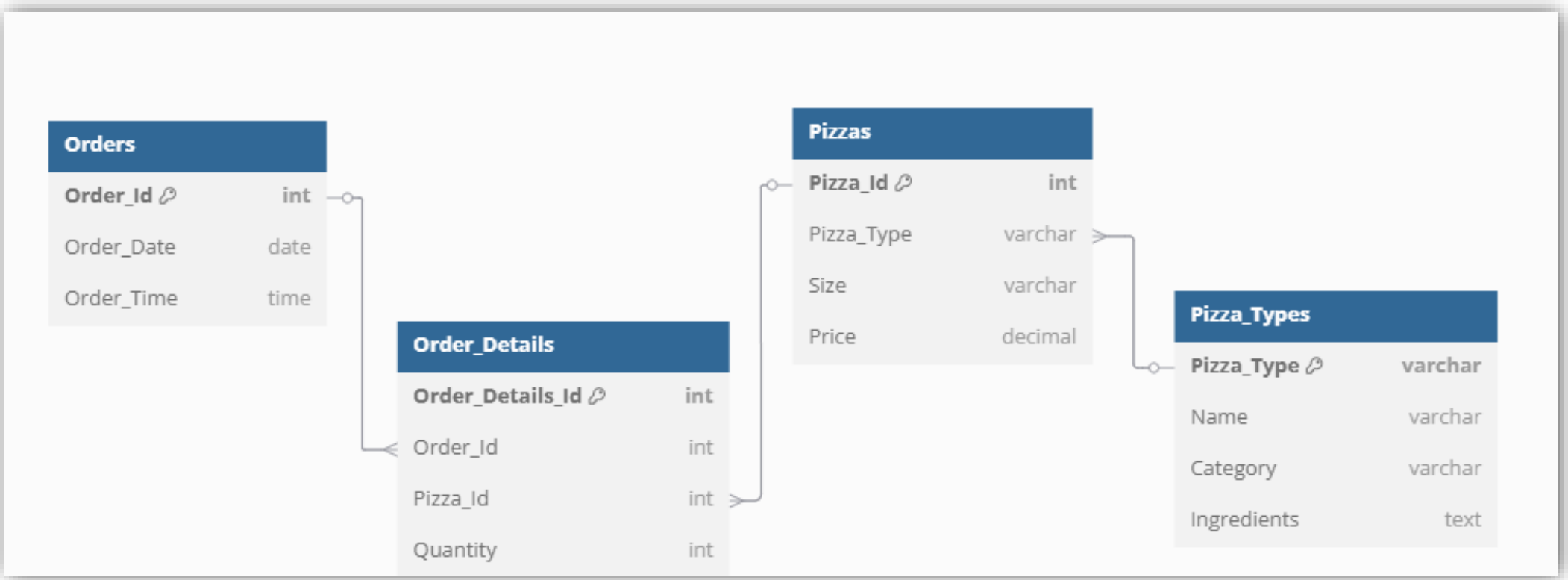
DOMINOS

SQL QUERY PROJECT


Orders
Order_Id int
Order_Date date
Order_Time time
Order_Details
Order_Details_Id int
Order_Id int
Pizza_Id int
Quantity int
Pizzas
Pizza_Id int
Pizza_Type varchar
Size varchar
Price decimal
Pizza_Types
Pizza_Type varchar
Name varchar
Category varchar
Ingredients text

B1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
Create View B1 As

Select Count(Distinct Order_Id) as Orders

From Order_Details;



Select * From B1
```

B2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
Create View B2 As

Select

Sum(Order_Details.quantity * pizzas.price) as Total_Sales

From Order_Details Join pizzas

On pizzas.pizza_id = order_details.pizza_id



Select * From B2
```

B3. IDENTIFY THE HIGHEST-PRICED PIZZA.

```
Create View B3 As
Select pizza_types.name, pizzas.price
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
order by pizzas.price desc limit 1;

Select * From B3
```

B4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
Create View B4 As
SELECT pizzas.size, Count(order_details.order_details_id) AS total_ordered
FROM order_details JOIN pizzas
ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizzas.size
ORDER BY total_ordered DESC
LIMIT 1;


Select * From B4
```

B5. LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
Create View B5 As
Select pizza_types.name,
sum(order_details.quantity) as total_quantity
From pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
Group by pizza_types.name
Order by total_quantity desc
Limit 5;

Select * From B5
```

I1. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
Create View I1 As
Select pizza_types.category,
sum(order_details.quantity) as total_quantity
From pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
Join order_details
on order_details.pizza_id = pizzas.pizza_id
Group By pizza_types.category
Order By total_quantity


Select * From I1
```

I2. DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
Create View I2 As
Select Extract(hour from order_time) as order_hour,
count(order_id)
From orders
Group By order_hour
Order By order_hour

Select * From I2
```

I3. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
Create View I3 As
Select Category, Count(name)
From pizza_types
Group By Category

Select * From I3
```

I4. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
Create View II4 As
Select round(Avg(order_quantity),2) from
(Select orders.order_date,
Sum(order_details.quantity) as order_quantity
From orders join order_details
on orders.order_id = order_details.order_id
Group By orders.order_date
Order By orders.order_date)

Select * From II4
```

I5. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
Create View I5 As
Select pizza_types.name,
sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
Group by pizza_types.name
Order by revenue desc
Limit 3


Select * from I5
```

A1. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
Create View A1 As
SELECT pizza_types.category,
ROUND(
(SUM(order_details.quantity * pizzas.price) * 100.0) /
(SELECT SUM(order_details.quantity * pizzas.price)
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
), 2) AS percentage_contribution
FROM pizza_types
JOIN
pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN
order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY percentage_contribution DESC;


Select * From A1
```

A2. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
Create View A2 as
Select order_date, revenue,
Sum(revenue) over (order by order_date) as cum_revenue
from
(select orders.order_date,
sum(order_details.quantity * pizzas.price) as revenue
from order_details
join pizzas
on order_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = order_details.order_id
Group by orders.order_date) as sales;


Select * from A2
```

A3. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
Create View A3 As
Select category, name, revenue from
(Select category, name, revenue,
rank() over (partition by category order by revenue desc) as rn
from
(Select pizza_types.category, pizza_types.name,
Sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on order_details.pizza_id = pizzas.pizza_id
Group by pizza_types.category, pizza_types.name) as a) as b
Where rn <=3;


Select * From A3
```