create database pizzahut ;

use pizzahut;

create table orders (

order\_id int not null,

order\_date date not null,

order\_time time not null,

primary key(order\_id) ) ;

create table order\_details (

order\_details\_id int not null,

order\_id int not null,

pizza\_id text not null,

quantity int not null,

primary key(order\_details\_id) );

-- Retrieve the total number of orders placed.

select count(order\_id) as

total\_ordersl from orders;

-- Calculate the total revenue generated from pizza sales.

SELECT

ROUND(SUM(order\_details.quantity \* pizzas.price),

2) AS total\_sales

FROM

order\_details

JOIN

pizzas ON pizzas.pizza\_id = order\_details.pizza\_id;

-- Identify the highest-priced pizza.

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;

-- Identify the most common pizza size ordered

SELECT

pizzas.size,

COUNT(order\_details.order\_details\_id) AS order\_count

FROM

pizzas

JOIN

order\_details ON pizzas.pizza\_id = order\_details.pizza\_id

GROUP BY pizzas.size

ORDER BY order\_count DESC;

-- List the top 5 most ordered pizza

-- types along with their quantities.

SELECT

pizza\_types.name, SUM(order\_details.quantity) AS qountity

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 qountity DESC

LIMIT 5;

-- Join the necessary tables to find the total quantity of each pizza category ordered.

SELECT

pizza\_types.category,

SUM(order\_details.quantity) AS 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 quantity DESC;

-- Determine the distribution of orders by hour of the day.

SELECT

HOUR(order\_time) AS hour, COUNT(order\_id) AS order\_count

FROM

orders

GROUP BY HOUR(order\_time);

-- Join relevant tables to find the

-- category-wise distribution of pizzas.

select category ,count(name) from pizza\_types

group by category;

-- Join relevant tables to find the category-wise distribution of pizzas

SELECT

AVG(quantity)

FROM

(SELECT

orders.order\_date, SUM(order\_details.quantity) AS quantity

FROM

orders

JOIN order\_details ON orders.order\_id = order\_details.order\_id

GROUP BY orders.order\_date) AS order\_quantity;

-- Determine the top 3 most ordered pizza types based on revenue.

SELECT

pizza\_types.name,

SUM(order\_details.quantity \* pizzas.price) AS revenue

FROM

pizza\_types

JOIN

pizzas ON pizzas.pizza\_type\_id = pizza\_types.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;