Assignment 02

Database Management Systems

01.
SELECT DISTINCT customer_id FROM Orders;
02.
SELECT DISTINCT customer_id FROM Orders WHERE YEAR(order_date) = 2008;
03.
SELECT DISTINCT customer_id FROM Orders WHERE YEAR(order_date) = 2008 AND MONTH(order_date) IN (4, 5, 6);
04.
SELECT DISTINCT customer_id FROM Orders WHERE order_date BETWEEN '2008-01-01' AND '2008-04-30';
05.
SELECT customer_id, COUNT(order_id) AS order_count FROM Orders WHERE YEAR(order_date) = 2008 GROUP BY customer_id;
06.
SELECT province, COUNT(order_id) AS order_count FROM Orders o JOIN Customers c ON o.customer_id = c.customer_id GROUP BY province;
07.
SELECT customer_id, SUM(quantity) AS total_items FROM Order_Items GROUP BY customer_id;
08.
SELECT item_id, SUM(quantity) AS total_quantity FROM Order_Items GROUP BY item_id ORDER BY total_quantity DESC LIMIT 10;

```
09.
SELECT oi.item_id, SUM(oi.quantity) AS total_quantity FROM Order_Items oi
JOIN Orders o ON oi.order_id = o.order_id
JOIN Customers c ON o.customer_id = c.customer_id
WHERE MONTH(o.order_date) = 4 AND YEAR(o.order_date) = 2008 AND c.province = 'Western'
GROUP BY oi.item_id
ORDER BY total_quantity DESC
LIMIT 10;
10.
SELECT order_id, SUM(quantity * price) AS total_income FROM Order_Items GROUP BY order_id;
11.
SELECT o.order_id, SUM(oi.quantity * oi.price) AS total_income FROM Orders o
JOIN Order_Items oi ON o.order_id = oi.order_id
WHERE MONTH(o.order_date) = 4 AND YEAR(o.order_date) = 2008
GROUP BY o.order_id;
12.
SELECT o.customer_id, SUM(oi.quantity * oi.price) AS total_income FROM Orders o
JOIN Order_Items oi ON o.order_id = oi.order_id
WHERE YEAR(o.order_date) = 2008
GROUP BY o.customer_id;
13.
SELECT o.customer_id, SUM(oi.quantity * oi.price) AS total_income FROM Orders o
JOIN Order_Items oi ON o.order_id = oi.order_id
JOIN Customers c ON o.customer_id = c.customer_id
```

WHERE YEAR(o.order_date) = 2008 AND c.age > 50

GROUP BY o.customer id;