# 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;