

# SQL

## ANSWERS SHEET

1. WITH x AS (SELECT `shippedDate`, COUNT(`orderNumber`) AS `total\_orders` FROM Orders)  
SELECT AVG(`total\_orders`) AS `AverageNumberOfOrdersShipped` FROM x;
2. WITH x AS (SELECT `orderDate`, COUNT(`orderNumber`) AS `total\_orders` FROM Orders)  
SELECT AVG(`total\_orders`) AS `AverageNumberOfOrdersPlaced` FROM x;
3. SELECT `productName` FROM Products  
ORDER BY MSRP  
LIMIT 1;
4. SELECT `productName` FROM Products  
ORDER BY `quantityInStock` DESC LIMIT 1;
5. SELECT `productName`  
FROM OrderDetails AS a INNER JOIN Products AS b ON a.`productCode` = b.`productCode`  
GROUP BY b.`productCode`  
ORDER BY COUNT(`orderNumber`) DESC  
LIMIT 1;
6. WITH x AS (SELECT customerName, SUM(amount)  
AS total\_payment FROM Customers AS a INNER JOIN Payments b  
ON a.customerNumber = b.customerNumber  
GROUP BY customerName)  
SELECT customerName, total\_payment FROM x  
WHERE total\_payment = (SELECT MAX(total\_payment) FROM x);
7. SELECT `customerNumber`, `customerName` FROM Customers  
WHERE `city` = "Melbourne";
8. SELECT `customerName` FROM Customers  
WHERE `customerName` REGEXP `^N\*`;
9. SELECT `customerName` FROM Customers  
WHERE `phones` REGEXP `^7.\*` AND `city` = "Las Vegas";
10. SELECT `customerName` FROM Customers  
WHERE `creditLimit` < 1000 AND `city` IN ("Las Vegas", "Nantes", "Stavern");
11. SELECT `orderNumber` FROM orderDetails  
WHERE `quantityOrdered` < 10;
12. SELECT `orderNumber`  
FROM Customers AS a INNER JOIN orders AS b ON a.customerNumber = b.customerNumber  
WHERE `customerName` REGEXP `^B.\*`;
13. SELECT `customerName`  
FROM Orders AS a INNER JOIN Customers AS b ON a.`customerNumber` = b.`customerNumber`  
WHERE `status` = "Disputed";
14. SELECT `customerName`  
FROM Payments INNER JOIN Customers USING (`customerNumber`)  
WHERE `paymentDate` = "2004-10-19" AND `checkNumber` REGEXP `^H.\*`;
15. SELECT `checkNumber` FROM Payments  
WHERE `amount` > 1000;