Database Concepts Ass01_2014_1: Suggested Solutions:

1. 5	CREATE TABLE OrderItems (OrdID numeric(4), StockID numeric(3), Qty numeric(3), UnitPrice numeric(5,2), CONSTRAINT pk_OrdItems PRIMARY KEY (OrdID, StockID), CONSTRAINT fk_OI_Orders FOREIGN KEY (OrdID) REFERENCES Orders, CONSTRAINT fk_OI_Stock FOREIGN KEY (StockID) REFERENCES Stock);
2. 3	UPDATE Stock SET SalePrice = SalePrice * 1.05;
3. 3	INSERT INTO Customers VALUES(235,'SMITH','JOHN','john@gmail.com','01/10/2014',0.00);
4. 3	SELECT Surname, Forename, Balance FROM Customers WHERE Balance > 750 ORDER BY Balance DESC;
5. 3	SELECT StockID, Description, SalePrice, SalePrice*.8 AS Reduced FROM Stock;
6. 2	SELECT * FROM Customers WHERE Surname LIKE 'L%';
7. 3	SELECT * FROM Customers WHERE RegDate LIKE '%06/2012';
8. 3	SELECT SUM(Balance) AS TotalOwed FROM Customers;
9. 4	SELECT MIN(OrdValue) AS MIN, MAX(OrdValue) AS MAX, AVG(OrdValue) AS AVG FROM Orders;
10. 5	SELECT CustID, SUM(ORDvALUE) AS Total From Orders GROUP BY CustID;
11. 5	SELECT OrdID, C.CustID, OrdValue, Surname, Forename FROM Orders O, Customers C WHERE O.CustID = C.CustID;

12. 6	SELECT O.OrdID, OrdDate, I.StockID, Description FROM Orders O, Stock S, OrderItems I WHERE I.StockID = S.StockID AND O.OrdID = I.OrdID;
13. 4	SELECT * FROM Orders WHERE OrdValue < (SELECT AVG(OrdValue) FROM Orders);
14. 3	SELECT * FROM Orders WHERE OrdDate BETWEEN '01/01/2013' AND '30/06/2014';

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	SELECT OrdID, OrdDate, Surname, Forename
	FROM Orders O, Customers C
	WHERE O.CustID = C.CustID AND
	      OrdDate LIKE '%/2013' AND
	      OrdValue > 1000;

16. 4	SELECT OrdID, COUNT(*) FROM OrderItems GROUP BY OrdId;
17. 6	SELECT StockID, SUM(Qty) FROM OrderItems GROUP BY StockId ORDER BY SUM(Qty) DESC;
18. 6	SELECT C.CustID, Surname, Forename FROM Customers C, Orders O WHERE O.CustID(+) = C.CustID AND OrdDate IS NULL; OR SELECT C.CustID, Surname, Forename FROM Customers C LEFT JOIN Orders O ON C.CustID = O.CustID WHERE OrdDate IS NULL;
19. 5	SELECT * FROM Stock WHERE StockID NOT IN (SELECT DISTINCT StockID FROM OrderItems);

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	SELECT StockID, Description
	FROM Stock
	WHERE StockID IN (SELECT StockId
	      FROM OrderItems
	      GROUP BY StockID HAVING SUM(Qty) > 100);