

Using SQL with an Access Database

The following exercises use the class case study database, Megadeals, with the tables Customer, Order, Orderline and Stock. In order to complete the exercises and run the SQL:

- Create a new query in design view and then close the Show Table window
- Choose the SQL view of the query either from the view menu or from the query design toolbar.
- The command SELECT and the final semicolon are already written into the statement for you (note the word SELECT must go at the beginning and the semicolon indicates the end of the select statement).

For each of the following exercises, work out before you run the query what you expect the query to do and then see if you are correct by viewing the query (looking at the query in datasheet view). Remember that if you have no data in the selected tables, or the data does not match the query then no records will appear in the datasheet view, if this is the case then you will have to either add data to your tables to match the query or alter the SQL so that the query will find a match to the data in your table.

1. `SELECT [customer ref],[cust title],[cust forename][cust surname]
FROM tblCustomer;`
2. `SELECT [customer ref],[cust title],[cust forename][cust surname]
FROM tblCustomer
WHERE Town="Cartoonville";`
3. `SELECT *
FROM tblStock
WHERE Location like "BIN*7"
ORDER BY [Page No];`
4. `SELECT DISTINCT [Stock No]
FROM tblOrderline;`
5. `SELECT *
FROM tblOrder
WHERE [Order date]>01/01/2009;`
6. `SELECT *
FROM tblOrder
WHERE [Order date]>01/01/2009 AND [Order date]<now();`
7. `SELECT[Stock no], Count([Stock no])
FROM tblOrderline
GROUP BY [Stock no]
ORDER BY [Stock no] DESC;`
8. `SELECT tblOrder.[Order No],tblOrder.[Order date],tblOrder.[Cust Ref],
tblOrderline.[Stock No],tblOrderline.[Quantity]
FROM tblOrder, tblOrderline
WHERE tblOrderline.[Order No]=tblOrder[Order No];`

9. INSERT INTO tblCustomer ([customer ref],[cust title],[cust forename],[cust surname])
VALUES ("ENG01","Mr","Ivor","Engine");

Note: to make this SQL query affect the data in the tables you must run the query either by choosing the run option from the query menu or clicking on the run button on the toolbar

10. UPDATE Stock
SET [Reorder level] = 0
WHERE Stock.[Stock No]="ITEMS2";
Again to make this query affect the data in the table you must run the query as above.

11. DELETE * FROM Customer
WHERE [cust surname]="Engine";

Write and test the SQL that would:

12. Display the stock no, stock description and location of all the stock items in the stock file in order of stock no.
13. Display all fields for the customers whose last order date is over 2 months old
14. Display the order no, order date, from the order table, customer ref and customer surname from the customer table and stock no, stock description and location fields from the stock table for all the orders from the order table with an order date in February 2007

15. Insert the following details into the customer table

Customer ref	KAN01
Customer surname	Kandinsky
Customer forename	Zag
Postcode	PR25 7FD

16. Update the reorder level to 50 of all items in the stock table whose Stock No starts "THI".
17. Delete Zag Kandinsky from your customer table
18. Display the Customer ref, cust surname, customer forename and the count of all the orders that customer has in the order table