

LINQ To SQL Cheat Sheet

C# Version 1 - May 2007

Created by Ben Hall

Available free at
blog.benhall.me.uk

DATA CONTEXT

```
NorthwindDataContext db = new NorthwindDataContext ("server=.;");
```

SELECT

```
var qry= from p in products
          select p;
Or
          select p.val;
Or
          select new {a = p.val}
```

INSERT

```
db.Product.Add(new
Product())
db.SubmitChanges();
```

UPDATE

```
productObjectFromDB.Price =
123;
db.SubmitChanges();
```

DELETE

```
db.Product.Remove(productOb
jectFromDB)
db.SubmitChanges();
```

TAKE

```
var qry= (from p in products
          select p).Take(5)
```

SKIP

```
var qry= (from p in products
          select p).Skip(5)
```

WHERE

```
var qry= from p in products
          WHERE p.val == 123           (Equals)
Or
          WHERE p.val != 123          (Not Equals)
Or
          WHERE p.val > 1 && p.val < 3 (Between)
          select p;
```

ORDER BY

```
var qry= from p in products
          orderby p.ProductName.Length
Or
          orderby p.ProductName
Or
          orderby p.UnitsInStock descending
          select p;
```

JOIN

```
from p in persons join w in workers
on new { p.FirstName, p.LastName } equals new
{ w.FirstName, w.LastName }
select p;
Or
Join o in orders on p.ProductID equals
o.ProductID
```

SELECT SINGLE OBJECT

```
Product p = db.Products.Single(p => p.ProductID
== 123);
```

MAX

```
db.Products.Max(p => p.Price)
```