* Linq stands for Language INtegrity Query
* Linq provide a mechanism that same query syntax will be used for different data resources.
* Linq is introduced in the .Net 3.5 framework.

By using Linq we can intract:

1. Linq to Objects : Arrays,Collections,etc
2. Linq to relation databases: data Tables , Relational Data base Tables
3. Linq to ADO.net
4. Linq to Sql

* Linq is a query language that work with relational databases i.e Sql Server
* Linq to Sql is not only for querying the data or retrieving the data but also allows us to performing the CRUD operations like inserting the data ,updating the data ,deleting the data and retrieving the data.
* We can involk stored procedure in sql server through Linq.

**In case of SQL:**

Sql syntax is verified by Database engine not by Compiler.

Sql query in c# are Not type safe.

For Sql support No Intellisence support

Debugging not support for sql querys

(Sql querys are writing in string format so while sent data to server in wrong data then sql engine throws a error and acknowledgement is come back to application this leads to time waste. Eg,salaty in decimal format but in case of sql query it accepts only string so, we can assign sal = AAA string value c# compiler does not shows any error during compile time )

**In case of Linq:**

Linq syntax is verified by the C# Compiler.

Linq are Type Safe.

Linq has Intellisence support

Debugging support for Linq

1. Linq to Entities
2. Linq to XML :XML files