

Records





What is Record Structure?

Records are customised data types created by the programmer.

They can contain **several variables** which can be of **different data types**.

When you create a record structure, you are essentially creating a database.





Data Types

Up until now, you have only used the base types provided by the programming language.

Character

Real

Integer

Boolean

And the structured types also provided by the programming language.

- Array
- String

STRING is really just an ARRAY of CHARACTERS





Record Structure

A record structure is created by firstly defining a name and the 'fields' required.

RECORD UserDetails IS

{STRING Firstname, STRING Surname, INTEGER Age}

This record structure contains three variables (fields)





Record Structure

Now that the new custom type has been defined, an array can be declared that uses this new type as an **array of records**.

DECLARE *UserRecord*(10) As *Userdetails*





Record Structure

DECLARE *UserRecord*(10) As *Userdetails*

Record values can now be initialised or updated as a complete record

SET *UserRecord*[1] TO {"Harry", "Jones", 37}

Or by referring to individual values

SET *UserRecord*[1].*Firstname* TO "Harry"

SET *UserRecord*[1].*Surname* TO "Jones"

SET *UserRecord*[1].*Age* TO 37

