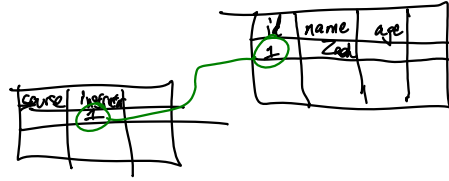


Goal: write in language to express intent/idea/etc.  
and have assistance in manifestation

SQL - Standard Query Language  
for querying databases

Relational Algebra



```

Select StudentId, ClassYear
From Students as S
Inner Join Registration as R
Where S.StudentId = R.StudentId
    
```

int(s)  
(int)s

	Paradigms	Typing	Category	Memory Model	Use Cases
C++ C++11	procedural OO functional	Static & untyped	General Purpose Lang.	pointers, references no safety	performance, control of machine
Python	procedural, OO (some functional)	dynamically typed	General Purpose	reference, GC memory safe	abstracts machine details, ad-hoc development small to medium, end-user apps
C	procedural	static & untyped	General Purpose	pointers, no safety	MOAR CONTROL (drivers, kernels)
LaTeX	functional macro	none	CP/document	memory safe	Make pretty PDFs
HTML	markup	none	document	none	web pages
inf	data structure	none	document	none	proof nbes
OCaml	functional, OO (some procedural)	Static	General Purpose	references, GC memory safe	case analysis (match) mathematical & recursive algorithms performance

Language

Tools

Libraries

Ecosystem