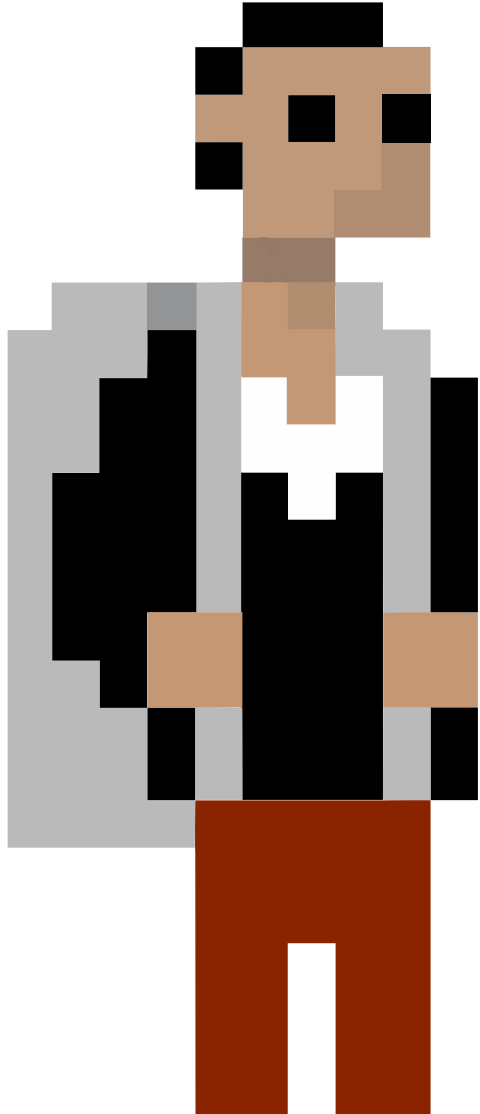
A man with a beard and glasses, wearing a blue shirt, is seated in the background, slightly out of focus. In the foreground, there is a large number of brown stuffed monkeys, with one in sharp focus in the center. The scene is indoors, with a window and some foliage visible in the background.

Motz Codes Live

@JamesMontemagno
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Local storage with SQLite-net PCL
August 21, 2015

Who is Motz?



James
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What is SQL?

- Structured Query Language

UPDATE clause [UPDATE country
SET clause [SET population = population + 1
WHERE clause [WHERE name = 'USA';

Expression

Statement

Expression

Predicate

The diagram illustrates the components of an SQL UPDATE statement. The statement is: UPDATE country SET population = population + 1 WHERE name = 'USA';. Annotations include: 'UPDATE clause' pointing to 'UPDATE', 'SET clause' pointing to 'SET', and 'WHERE clause' pointing to 'WHERE'. A bracket labeled 'Expression' spans 'population + 1'. Another bracket labeled 'Expression' spans the value 'USA'. A bracket labeled 'Predicate' spans the entire condition 'name = 'USA''.

What is SQLite?

- Relational Database Management System
- Contained in C Programming Language
 - Sqlite.org
- Runs everywhere with “bindings”

What is SQLite-net?

- SQLite client & ORM
 - Object Relational Mapping
- .NET, Mono, and Xamarin apps
- Component and PCL versions!
- Created by Frank Krueger! @praeclarum

Before We Start

- Relational Database
- Table Based
 - Rows of Data (single item)
 - Columns with attributes/field/property
- Primary Key
 - Unique Identifier for item
- Foreign Key
 - Field that matches the Primary Key column of another table (parent/child relationship)
- Index
 - Provide Quicker Access to Data (use carefully)

Let's Database!

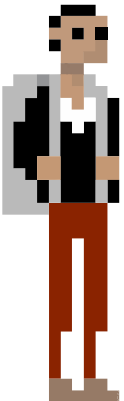
Other Options

- SQLite bundled into Azure Mobile Services
 - <https://components.xamarin.com/view/azure-mobile-services>
- Couchbase Lite for .NET (NoSQL)
 - <https://components.xamarin.com/view/couchbase-lite-net>
- Amazon Web Services
 - <https://components.xamarin.com/?search=AWSSDK>

Resources

- SQLite-net PCL
 - <https://www.nuget.org/packages/sqlite-net-pcl/>
 - <https://github.com/praeclarum/sqlite-net>
- Meetup Manager:
 - <https://github.com/jamesmontemagno/MeetupManager>

Thank you. Questions?



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