

ADO.NET

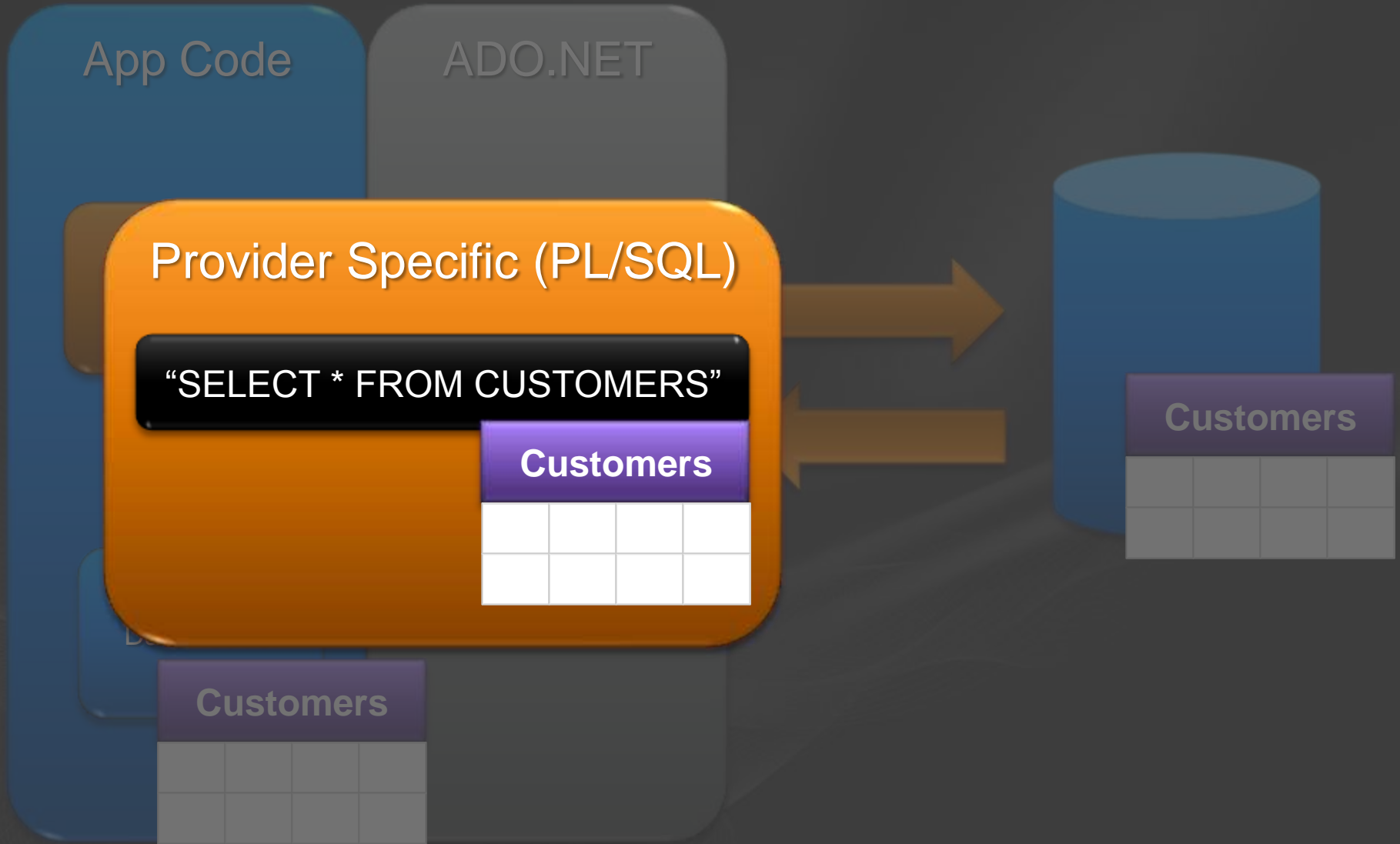
Entity Framework

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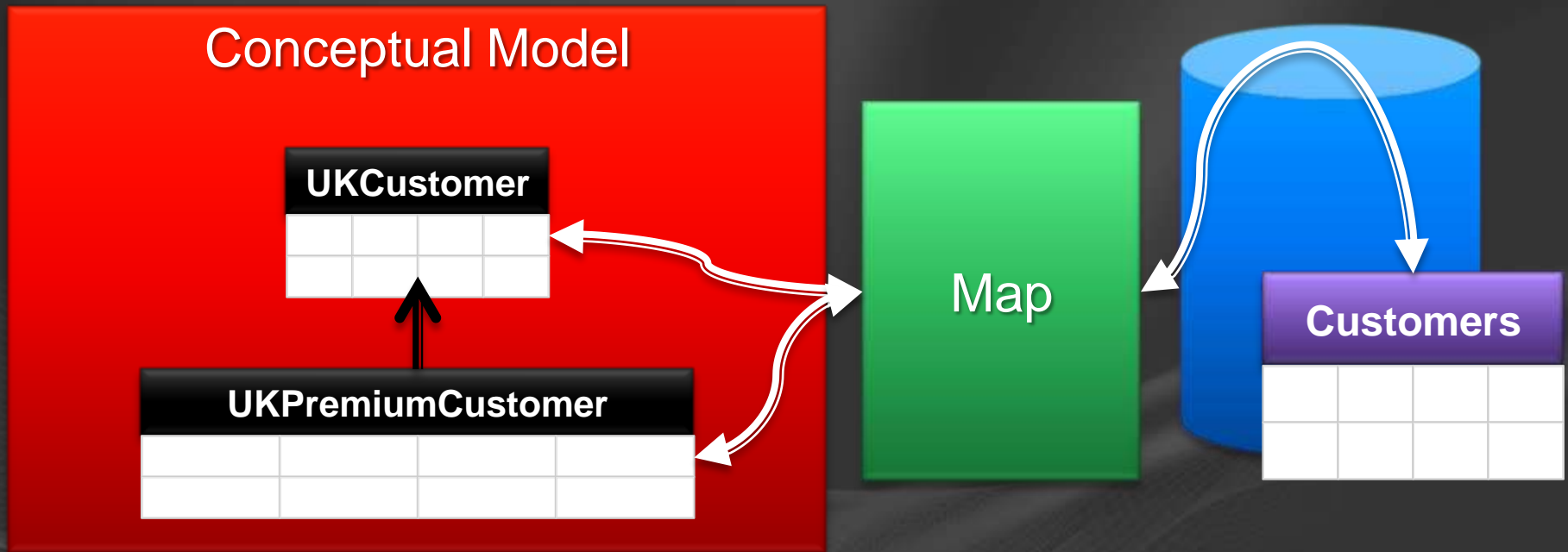
Entity Framework – Key Facts

- Extends the ADO.NET Provider Model
 - Pluggable to support any database
- Functionality
 - Abstracts a model from your store schema
 - ADO.NET API or LINQ-enabled ORM
- Status
 - Ships Summer 2008, Currently at B3
 - Current bits are packaged in [ASP.NET 3.5 Extensions Preview](#)

ADO.NET Today



ADO.NET Entity Framework



ADO.NET Entity Framework

App Code

ADO.NET

Conceptual Model

Provider Agnostic (ESQL)

```
"SELECT * FROM UKCUSTOMER"
```

UKCustomer

Map

customers

DataReader

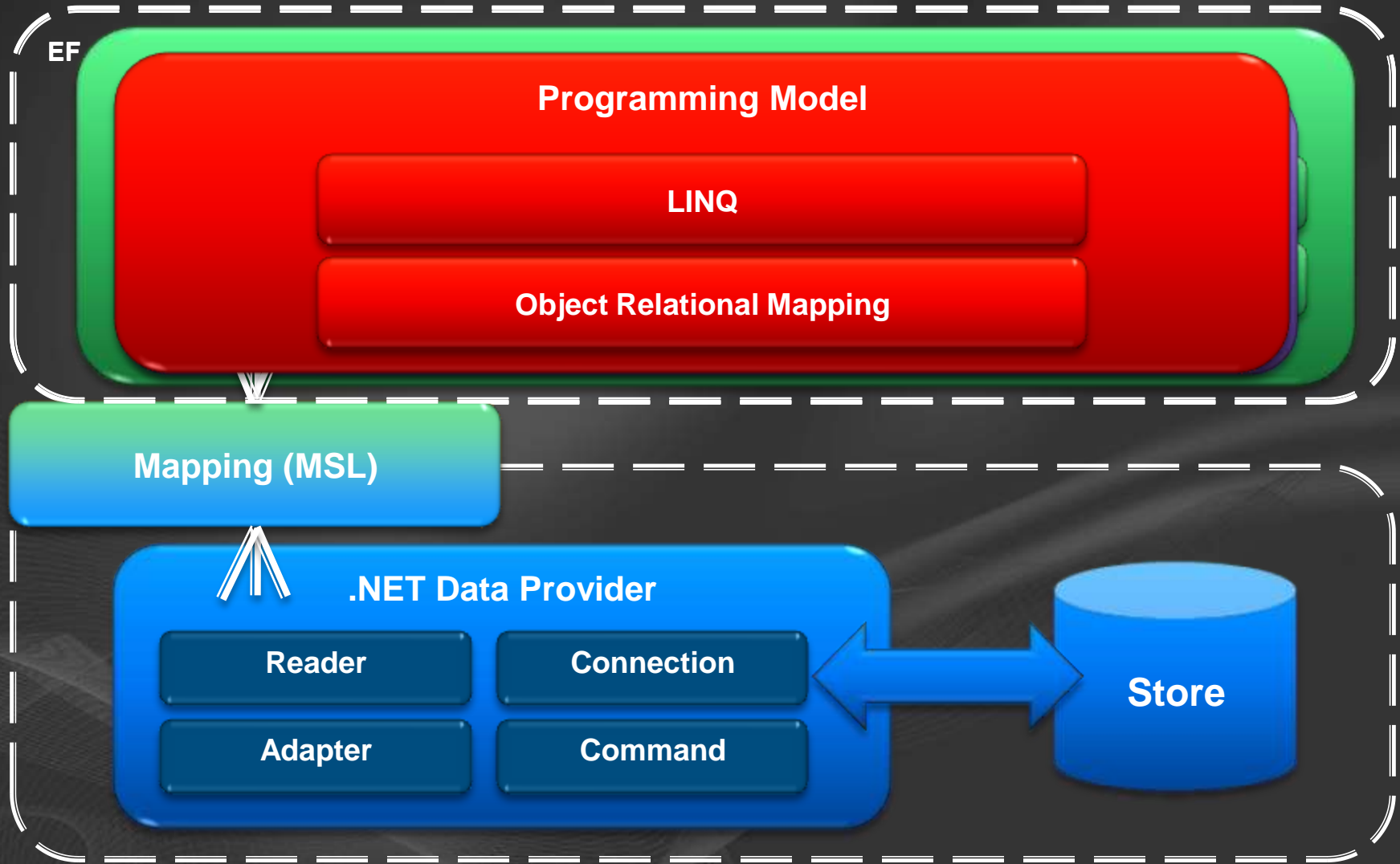
UKCustomer

Oracle

...



ADO.NET Entity Framework



LINQ to SQL? LINQ to Entities?

	LINQ to SQL	LINQ to Entities
Database Support	SQL Server	Many
Object Relational Mapping Capabilities	Simple	Complex
Requires Attributed .NET Code	No	Yes
Status	Released	Beta

{ Entity Framework }

demo

LINQ to Entities – Lots of Topics

**Change
Tracking**

Concurrency

Transactions

(i)POCO

**Stored
Procs**

Inheritance

**Customising
Code-Gen**

Metadata

N-Tier

**Compiled
Queries**

Performance

EF Providers in Progress

Vendor	DB Support
Microsoft	SQL Server
Core Lab	Oracle, MySQL, PostgreSQL, SQLite
IBM	DB2, Informix Dynamic Server
MySQL AB	MySQL
Npgsql	PostgreSQL
OpenLink	Many via OpenLink ODBC or JDBC
Phoenix	SQLite
DataDirect	Oracle, Sybase, SQL Server, DB2
Firebird	Firebird

Resources

- New Data Developer Site
 - <http://www.datadeveloper.net>
- ADO.NET Team Blog
 - <http://blogs.msdn.com/adonet>
- My website 😊
 - <http://www.miketaulty.com> (search Entity)

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