



# Round Trip in GLORP

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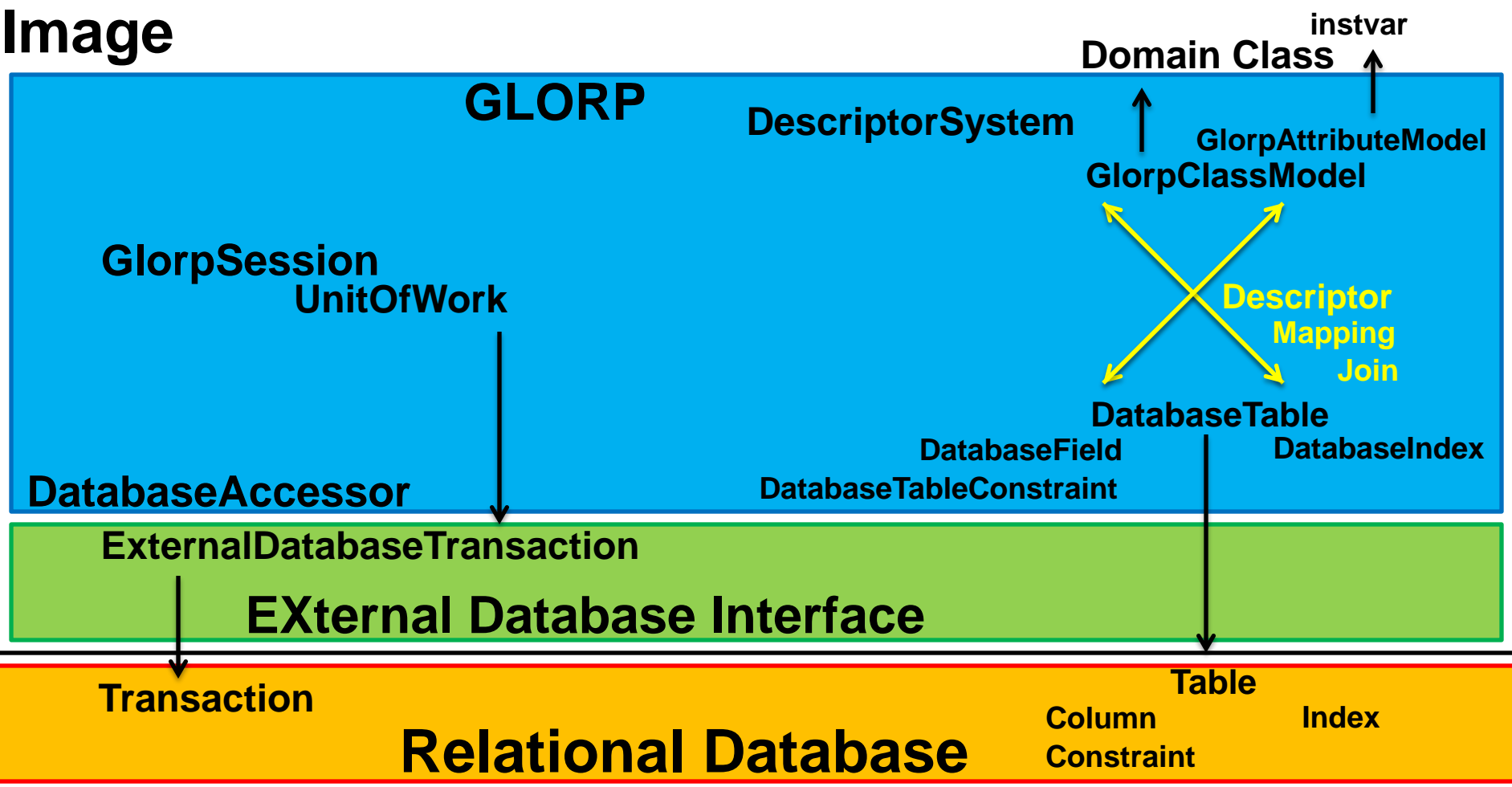
Welcome  
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# What is GLORP?

- **Generic:** abstract, declarative, multi-platform f/w
- **Lightweight:** looks like Smalltalk  
session read: Customer where: [:each | each orders size > 0]
- **Object:** general hierarchic OO models
  - no ActiveRecord-like style restriction
  - remains flexible *throughout* the lifecycle
- **Relational:** embedded or bound SQL
- **Persistence:** transactions, constraints, indexes

# GLORP Architecture

Image



# What is the round trip

- **Mapping Tool:**
  - read database, generate Glorp
  - map existing classes or generate classes
- **Modeling Tool:** understand domain, improve mapping
- **Refactor the GLORP model:**
  - complex dictionary mappings
    - key map doubles as second link table
    - dictionary can defer development decisions
- **Use the refactoring:** (very) simple web app

# The Demo System: a Whisky website



Mapping Tool

Atlas Class Mapping

Atlas:  Available Databases:  Schema:

Classes

- Swaid.Dram242.AddressType
- Swaid.Dram242.BankAccount
- Swaid.Dram242.Blend
- Swaid.Dram242.Bottle
- Swaid.Dram242.Bottler
- Swaid.Dram242.BottleReview
- Swaid.Dram242.Brand
- Swaid.Dram242.BrandHistory
- Swaid.Dram242.Cask
- Swaid.Dram242.Company
- Swaid.Dram242.CompetitorPriceInfo
- Swaid.Dram242.ContactInfoType
- Swaid.Dram242.Country
- Swaid.Dram242.DiscountClub
- Swaid.Dram242.Distillery
- Swaid.Dram242.Dram242Address
- Swaid.Dram242.Dram242ContactInfo

Tables

- D242\_SERIES
- D242\_BANKACCOUNT
- D242\_PURCHASEORDER
- D242\_PERSON
- D242\_WHISKYTAG
- D242\_OPENBOTTLE
- PH\_KEYWORD
- D242\_COMP\_PRICE
- D242\_TASTEGROUP
- D242\_COMPANY
- D242\_ORDERPLANNING
- D242\_INVOICE
- D242\_EMPLOYEDBY
- PH\_LANGUAGE
- D242\_CONTACTINFOTYPE
- D242\_BOTTLE\_REVIEW
- D242\_WHISKYARTICLE\_TAG

Referenced Classes

Class
Swaid.Dram242.Brand

Mapping Info for D242\_EMPLOYEDBY

Attribute	Field
↔ id	D242_EMPLOYEDBY.ID
↔ username	D242_EMPLOYEDBY.USER_NAME
↔ timestamp	D242_EMPLOYEDBY.TIME_STAMP
↔ status	D242_EMPLOYEDBY.CURRENT_STATUS
↔ comment	D242_EMPLOYEDBY.COMMENT
•• company	(D242_EMPLOYEDBY.COMPANY = D242_COMPANY.ID)
•• person	(D242_EMPLOYEDBY.PERSON = D242_PERSON.ID)
•• period	D242_EMPLOYEDBY.START, D242_EMPLOYEDBY.END_DATE

Referenced Tables

Name	Fields
D242_EMPLO_TO_D242_C...	COMPANY->D242_COM
D242_EMPLO_TO_D242_P...	PERSON->D242_PERS

# What have we seen

- **Mapping Tool:**
  - read database, generate GLORP descriptor system
  - map existing classes or generate classes
- **Modeling Tool:**
  - display and manage the domain
- **Refactor in GLORP:**
  - better GLORP support of dictionary mappings
- **Display in AppeX on SiouX**



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