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# BAAN IV Tools

**Tools and Technology**  
工具和技术

# Objectives

## 目的

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- **Understand major capabilities of Tools**

理解工具模块的主要功能

- **Appreciate how Tools lends functionality to the Baan Application**

理解工具模块和**Baan** 应用的关系

# Agenda

## 议程

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- **Introduction** 介绍
- **Technical architecture** 技术结构
- **Software architecture** 软件结构
- **The Tool Set** 工具集合
  - **Foundation** 基础
  - **Customization** 客户化
  - **Developer Toolkit** 开发工具
- **Multi-Site technology supports** 多地点技术支持

# What is Baan Tools?

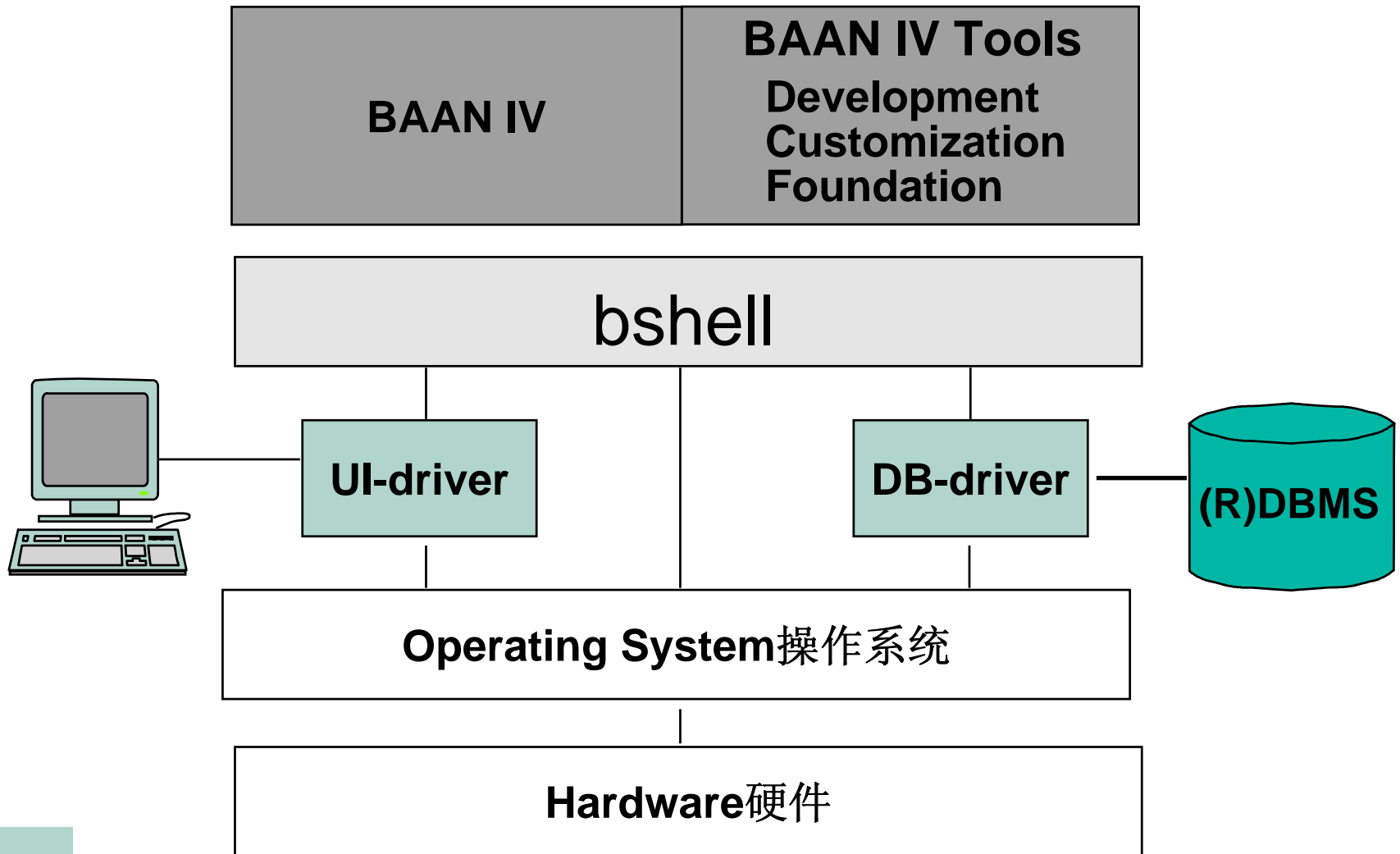
## 什么是Baan 工具?

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- **4GL Development environment**  
提供 4GL 开发环境
- **Client/Server capabilities**  
客户/服务器能力
- **Open system characteristics**  
开发的体系结构
- **Application administration facilities**  
系统管理员的功能

# Technical Architecture

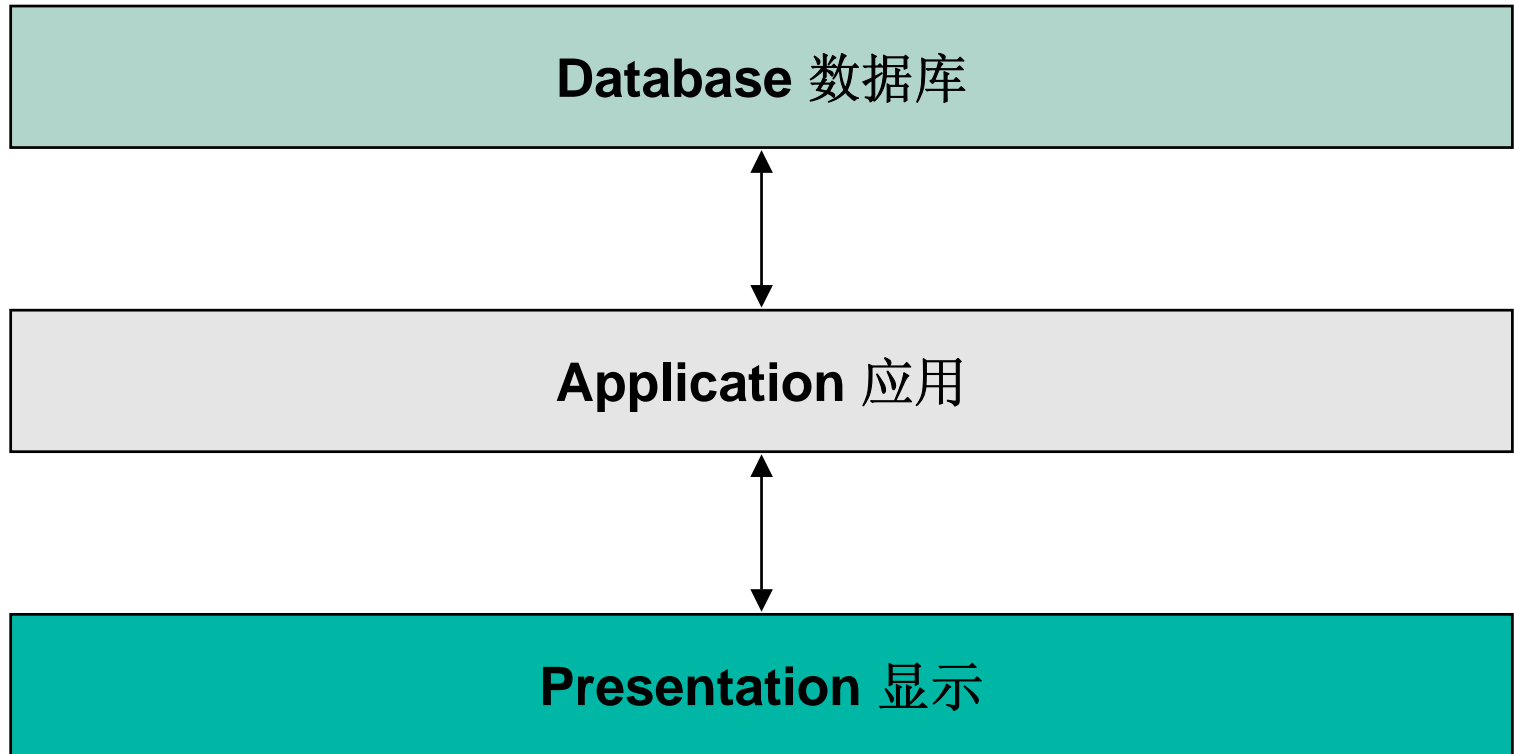
## 技术结构



# Baan Architecture

## Baan 结构

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**Configurable Inter-process Communication**

# Client-Server Characteristics

## 客户—服务机的特点

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- **The Requester is called the *Client***  
请求者是客户端
- **The Requestee is called the *Server***  
被请求者是服务端

# Open Systems: User Interfaces

## 开放系统：用户界面

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- **Character Based Terminal** 字符终端
- **PC**
  - vtxxx emulation vt100 仿真终端
  - MS Windows (BAAN IV Tools)
  - X-emulation X-windows 仿真终端
- **X-Station (X11.5)**



# Comparative Advantages: 比较优劣 User Interfaces 用户界面

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## ■ ASCII 字符终端

- **Lowest cost** 便宜
- **Chats network with every keystroke** 输入占用网络



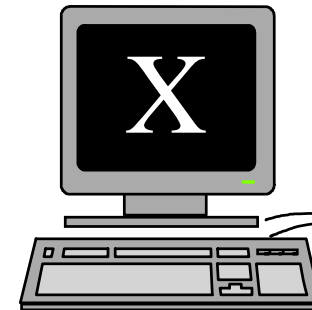
## ■ MS/Windows (BAAN IV Tools)

- **Medium cost per user** 中等价格
- **GUI** 图形化界面



## ■ X-windows

- **Highest cost per user** 价格昂贵
- **GUI** 图形化界面
- **High network traffic** 高网络冲突



# Open System: Databases

## 操作系统：数据库

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**Oracle 7.0.16**  
**Oracle 7.1.x**

**Baan**  
**Base TP**

**Informix**  
**Online 6.0**

**Baan**  
**Base**

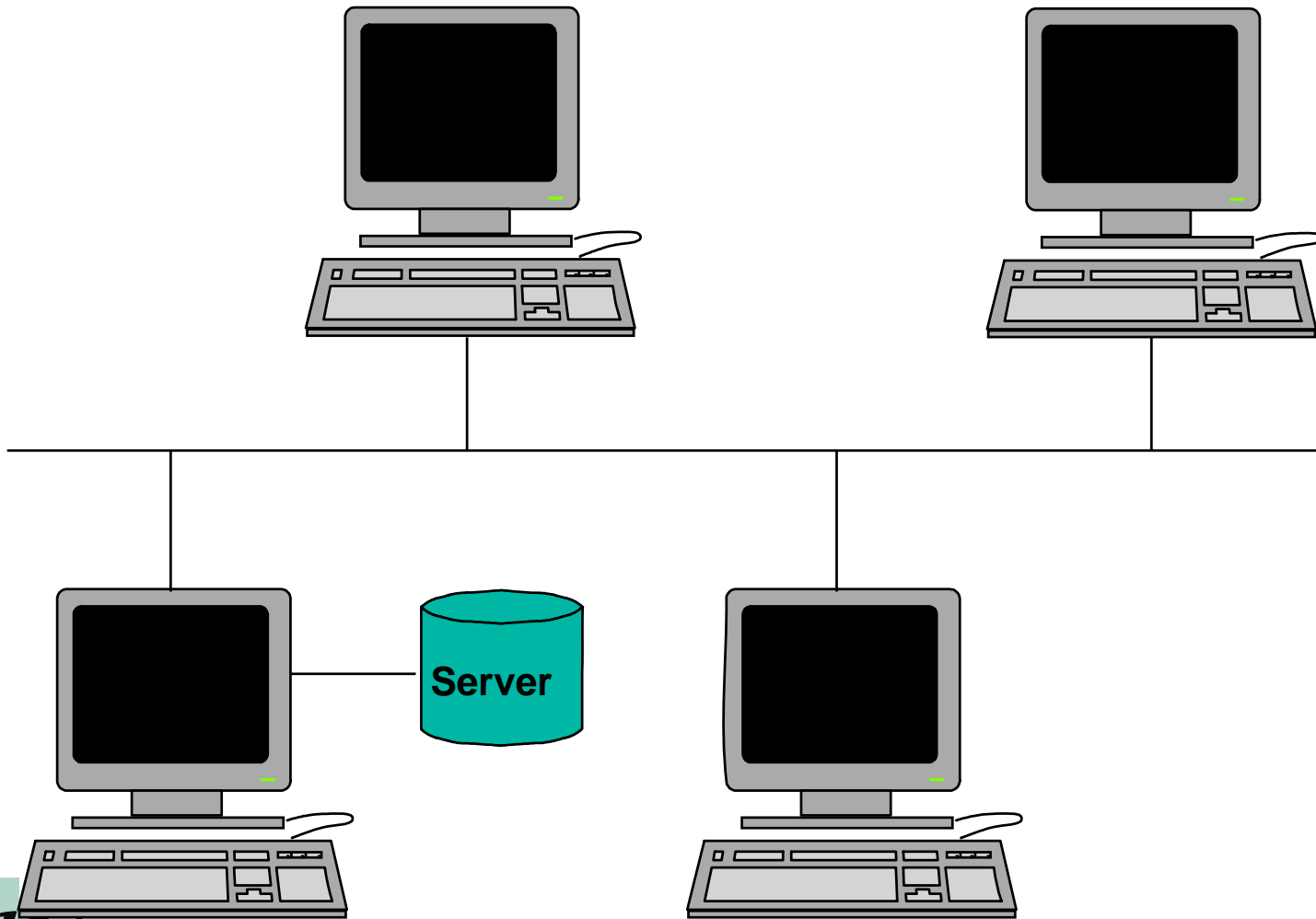
**Sybase S10**

**Commercial**  
**RDBMS**

**ISAM**

# Application Structure应用结构

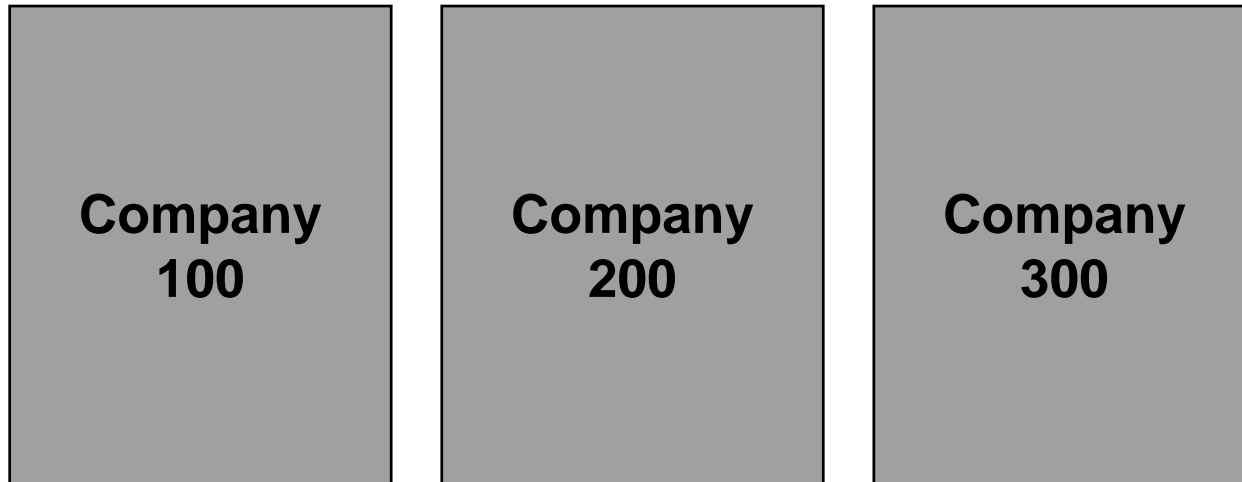
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# Database Implementation

## 数据库实施

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A company is the physical implementation of the schema.

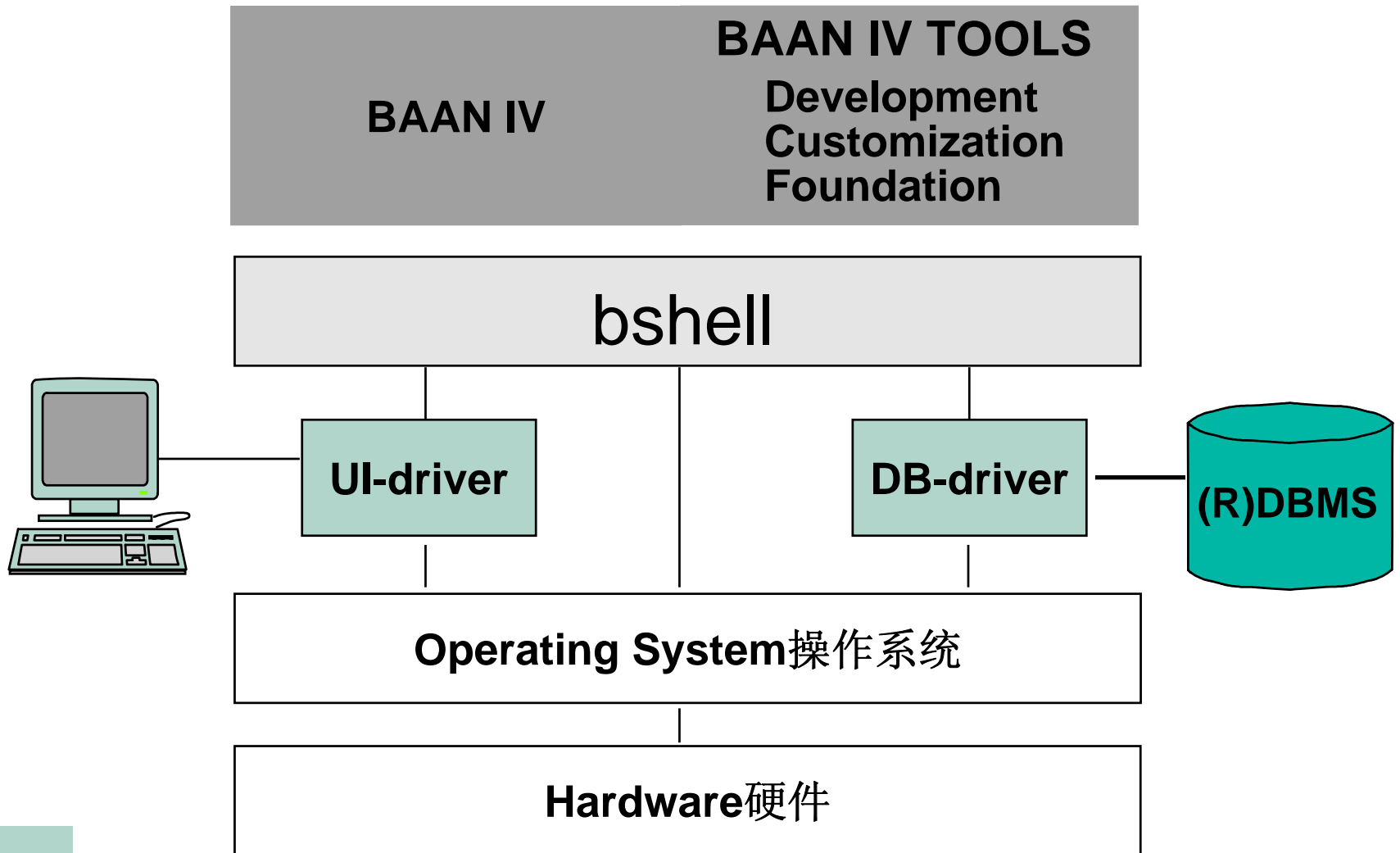
公司是物理上实施的单位

In Baan, a company can be a separate set of data.

在BAAN中，不同的数据存放在不同的公司中。

# Software Architecture

## 软件结构



# 4GL Development Environment

## 4GL 开发环境

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- **Data Dictionary 数据字典**
  - **Active vs. Passive** 活跃的对被动的
  - **Maintain via Dialogue screens** 通过对话银幕来维修
  - **Database independent model** 独立的数据库模型
- **Application Building 应用建立**
  - **Menu, Form, Report Editors** 菜单, 表单, 报告编辑
  - **Scripts**
    - Event Oriented 4GL
    - Procedure Language with functions
    - Embedded and Dynamic SQL support

# BAAN IV Tool Set

## BAAN 工具集合

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### Foundation Package

Security management	Job management
Device management	Text management
Menu management	Database management
	Query management

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### Customization Package

Report management  
Form management  
Session management  
Chart management

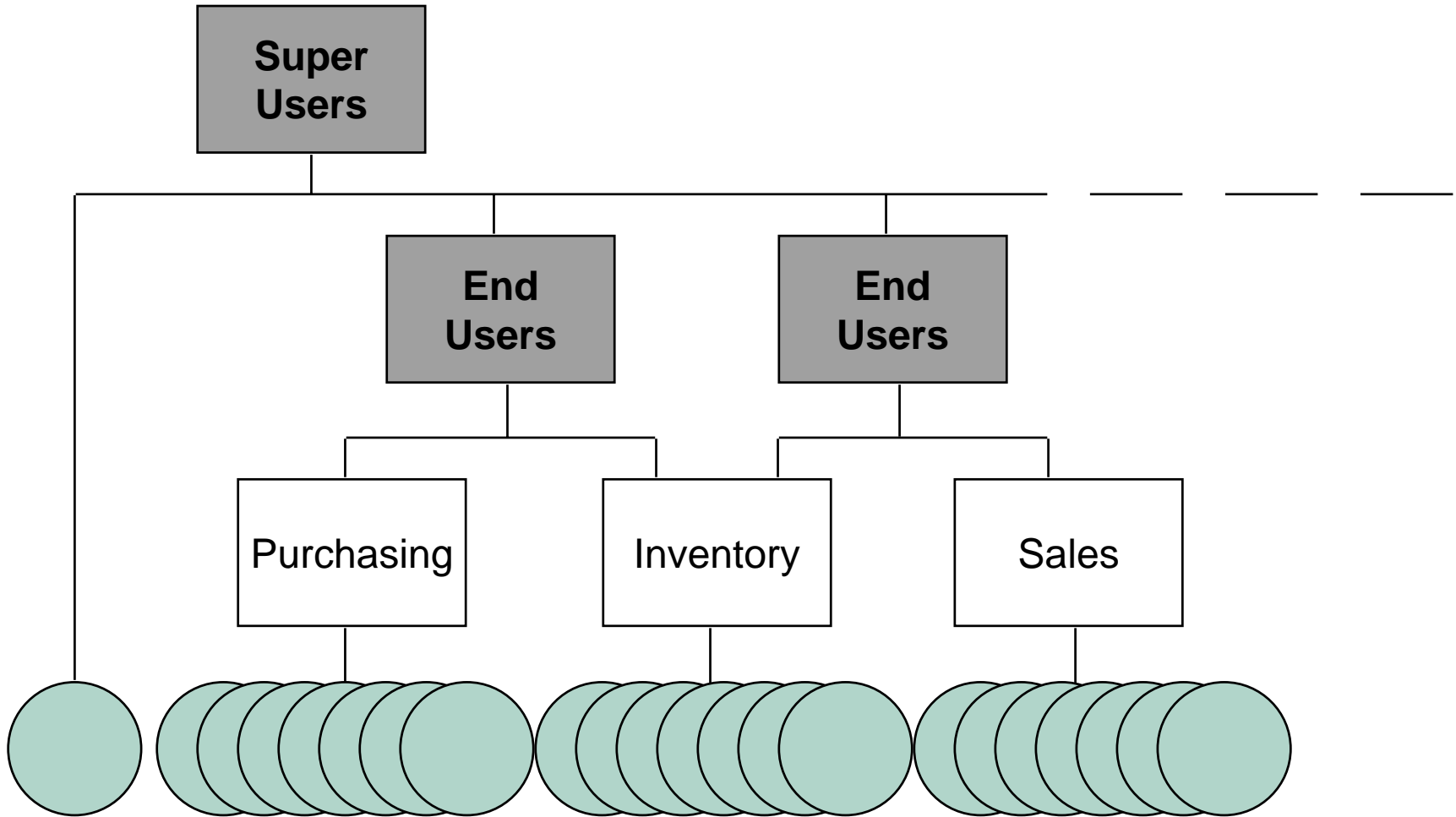
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### Development Package

Data Dictionary management  
Programming facilities

# Foundation: User mangement

## 基础：用户



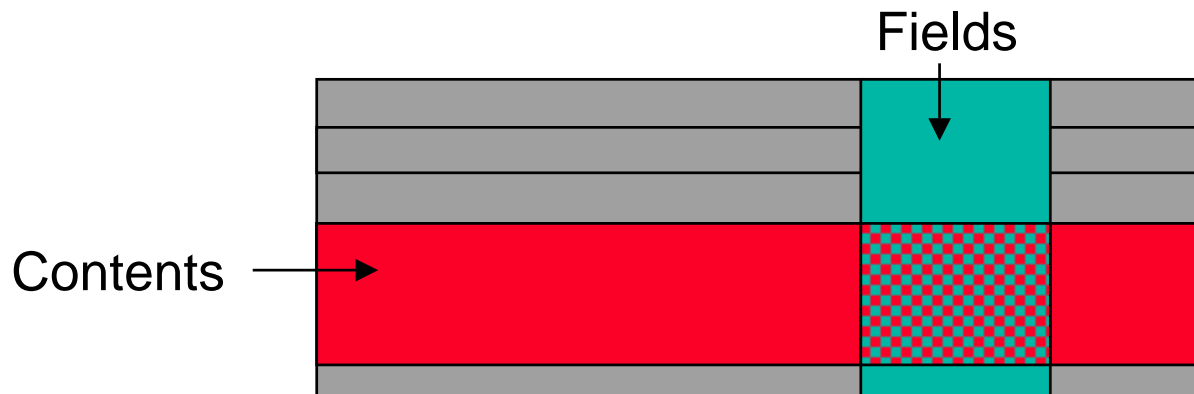


# Foundation: Security

## 基础：安全性

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- **Process: What task can users perform**
  - Module, Session authorizations
- **Database: What data can users manipulate**
  - Table, Field Authorizations
  - Table/Field Data Authorizations



# Foundation: Menus

## 基础：菜单

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- **BAAN IV is menu driven**  
Baan IV 是菜单驱动
- **Menu executes** 菜单可执行
  - another menu
  - a session
  - a UNIX shell program
  - a query询问
- **Created using Menu Editor** 用菜单编辑器创建菜单

# Foundation: Device

## 基础：设备

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### ■ Output is sent via Print Manager to:

通过打印管理输出

- **Screen** 屏幕
- **File** 文件
  - convert to ASCII, WordPerfect
- **Printer** 打印机
- **email, fax, etc., with 3rd party software**  
E\_mail, Fax,等第三方软件

# Foundation: Other

## 基础：其他

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- **Job management**      作业管理
  - execute batch processes
- **Text management**      正文管理
  - facility to attach text to other tables
  - language dependent
- **Database management**      数据库管理
  - configuration

# Foundation: Query Manager

## 基础：查询管理

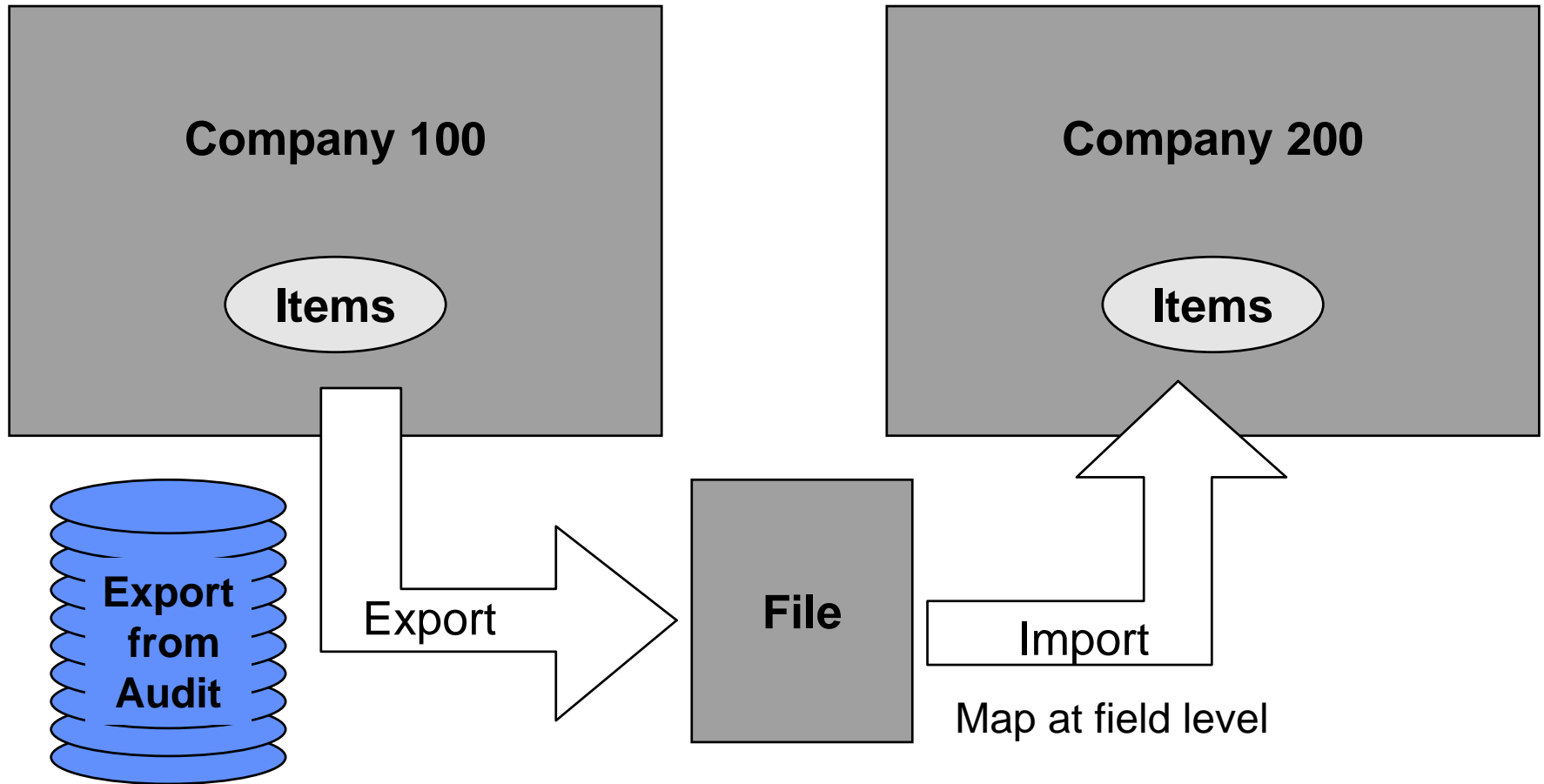
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- Query is catalogued for future use
- Easy SQL uses data dictionary to assist user
- Query extracts data from the database
- Other capabilities:
  - perform ranges at runtime
  - output to report list, label or chart
  - output to default or existing report

# Exchange Tool

## 交換工具

### Batch Process



# Exchange Tool: Purpose

## 交换工具：目的

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- **Conversions: legacy system to BAAN IV**  
转换：遗留系统和BAANIV的转换
- **Data interchange from/to other systems**  
与其他系统数据交换
- **Replicating data in Baan between companies**  
不同公司之间的数据交换