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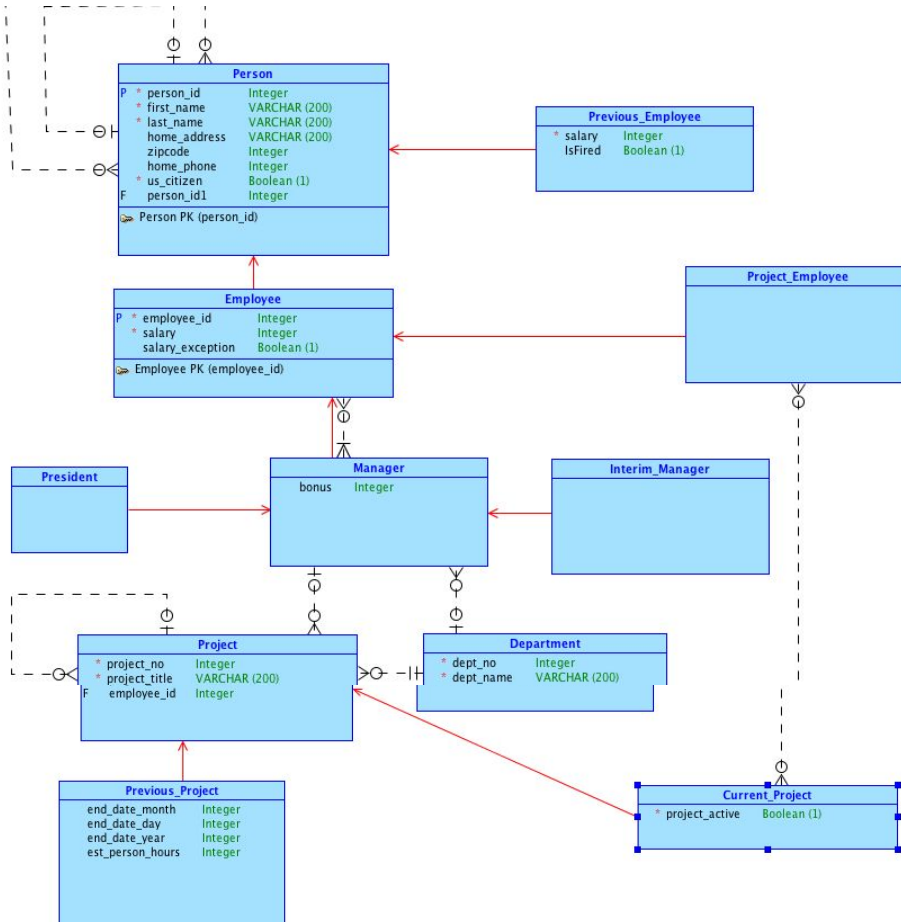
# Team S16E5

# Project Review

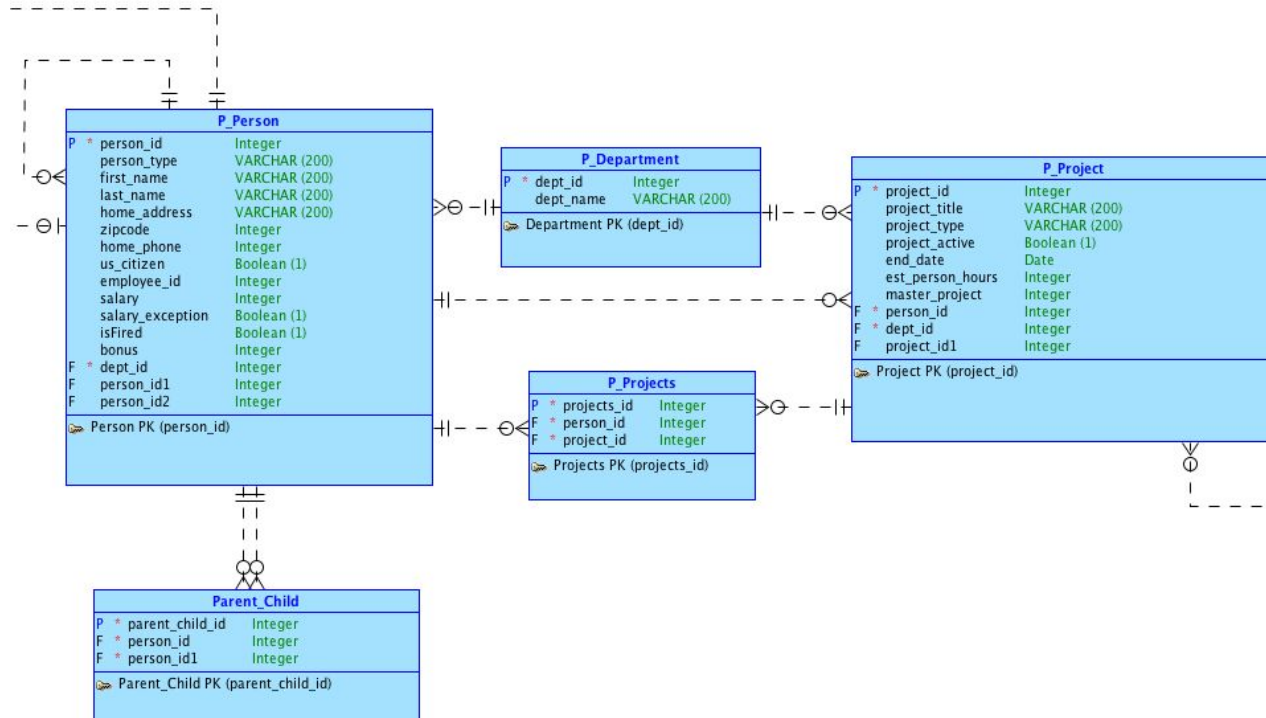
Jake Mayo, Wes Draper and Steven Zhu

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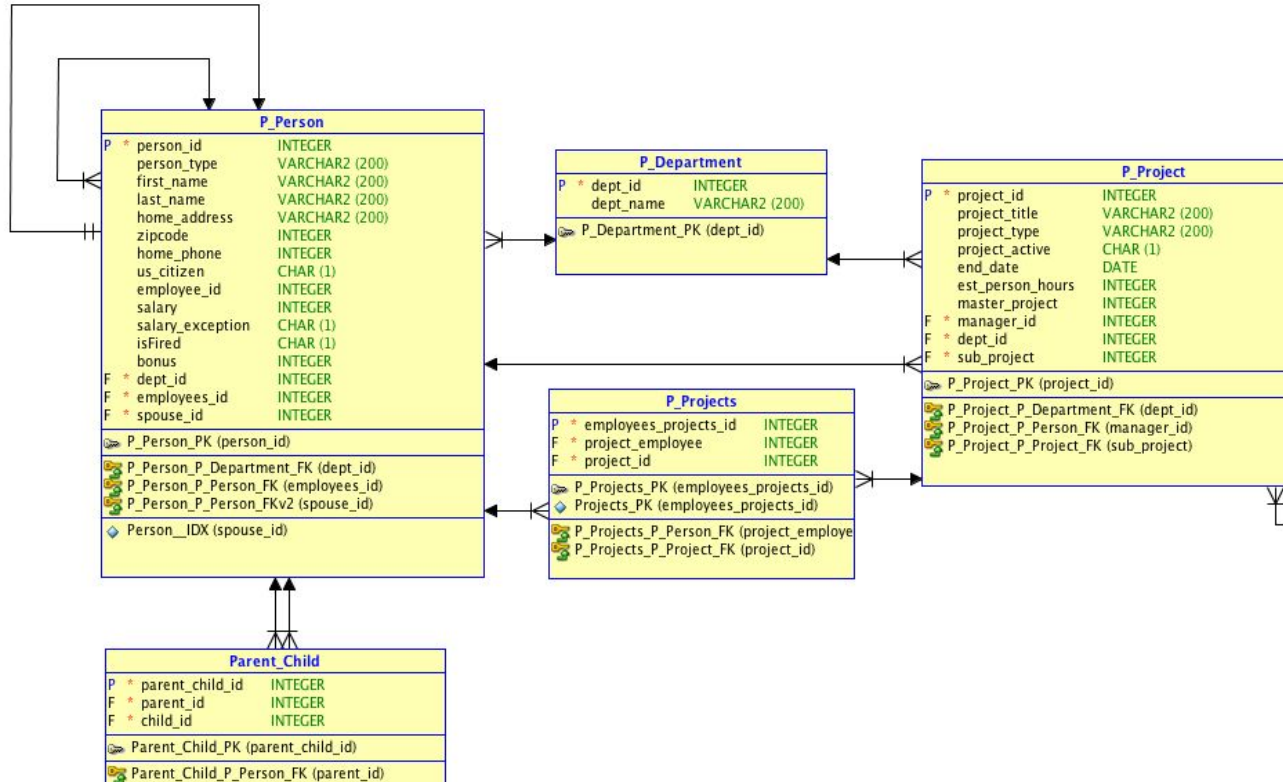
# Conceptual Model




# Logical Model



# Relational Model



# Part 1 Login

 CS347 Project

Log In

Select Person Type

President

Select Person ID

✓  
Mayo, Jake -> 380

Create Employee

# Navbar

The screenshot shows a web application interface. On the left is a dark blue sidebar with a hamburger menu icon and the text "CS347 Project". Below this are five menu items: "Projects", "Employees/Persons", "Departments", "Family", and "My Info". The main content area has a blue header with "CS347 Project". Below the header, there are three sections: "Active Projects" (with a dropdown arrow), "Non Active Projects" (with a right arrow), and "Previous Projects" (with a right arrow). The "Active Projects" section contains a search bar and a table with three columns: "Project Id", "Project Title", and "Edit". The table has three rows of data.

	Project Id	Project Title	Edit
Edit	200	Clean Bathrooms	-
Edit	202	Facility Cleaning	-
Edit	201	Wash Windows	-

# Edit From Report

The screenshot shows a web application interface. On the left is a dark blue sidebar with a hamburger menu icon and the text "CS347 Project". Below this are five menu items: "Projects", "Employees/Persons", "Departments", "Family", and "My Info". The main content area has a blue header with "CS347 Project". Below the header, there is a section titled "Employees" (with a dropdown arrow). This section contains a search bar, a "Go" button, and an "Actions" button. Below these are five "Edit" buttons. The "Edit Person" form is displayed, showing fields for "Person Id" (442), "Person Type" (Employee), "First Name" (Freddy), "Last Name" (Krueger), "Street Address", "City", "State", "Zipcode", and "Phone".

Person Id 442

Person Type \* Employee

First Name \* Freddy

Last Name \* Krueger

Street Address

City

State

Zipcode

Phone


# Create A Project

Create Project ✕

Project Title \* CS Presentation

Project Type Current ▾

Project Active Yes ▾

End Date 30-Apr-16 

Est Person Hours 213

Manager Id

Dept Id 

Corporate Office -> 203  
✓ Customer Service -> 202  
Finance -> 200  
Janitorial -> 204  
Marketing -> 201  
Public Relations -> 205

Master Project ID

Cancel


Create

Create Project ✕

Project Title \* CS Presentation

Project Type Current ▾

Project Active Yes ▾

End Date 

Est Person Hours

Manager Id

Dept Id

Master Project ID

April 2016

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Cancel

Create

# Alerts/Approvals As President

CS347 Project

Alerts!

Projects

Employees/Persons

Departments

Family

My Info

Log Out

▼ Project Needs Manager/Dept

Q ▼

Go

Actions ▼

	Project Id	Project Title	Project Type	Project Active	End Date	Est Person Hours	Manager Id	Dept Id	Mp Id
Edit	300	Organize Desks	Current	No	-	-	-	Corporate Office	Corporate Office Maintenance

1 - 1

▼ Set Salary/Bonus

Q ▼

Go

Actions ▼

	Person Id	Person Type	First Name	Last Name	Street Address	City	State	Zipcode	Phone	Salary	Bonus	Us Citizen	Salary Exception	Fired	Quit	
Edit	590	Employee	Katy	Perry	-	-	-	-	-	-	-	Yes	No	No	No	-
Edit	589	Employee	Michael	Jackson	-	-	-	-	-	-	-	Yes	No	No	No	-
Edit	587	Employee	Bernie	Sanders	-	-	-	-	-	-	-	Yes	No	No	No	-



# My Family

▼ Spouse

Q ▼

Go

Actions ▼

	Person Id	Person Type	First Name	Last Name	Street Address
<a href="#">Remove</a>	592	Person	Jessica	Mayo	-

▼ Parents

Q ▼

Go

Actions ▼

	Person Id	Person Type	First Name	Last Name	Street Address
<a href="#">Edit</a>	585	Person	Tim	Duncan	-
<a href="#">Edit</a>	600	Person	Susan	Mayo	-

▼ Children

8267:56:110301554910682::NO:::##

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# Demo Part 2

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# Login

Home

Log In

Select Type

Select Person ID

Log In

Register Employee

release 1.0 [Set Screen Reader Mode On](#)

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# Projects

≡

Sim Insert

📄 Login

📄 Person

📄 My Account

📄 Department

📄 Project

Project-Employee

Current-Project

Previous-Project

Create Project

🔍

Go

Actions

Project Title	Project No
Mission Impossible	701
Code Red	702
Desert Rose	703
Hallo	704
Stick And Fly	705
Night Rider	706

Refresh Report

## Project Form

Projectno 0

Projecttitle \*\*

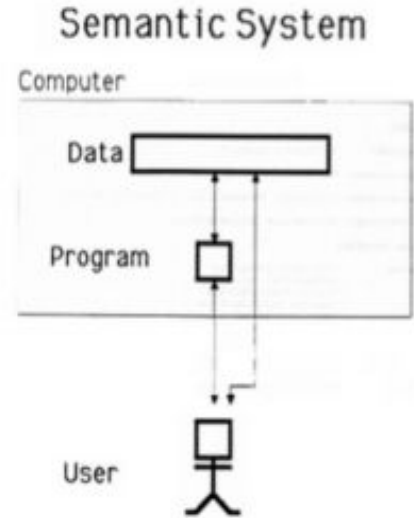
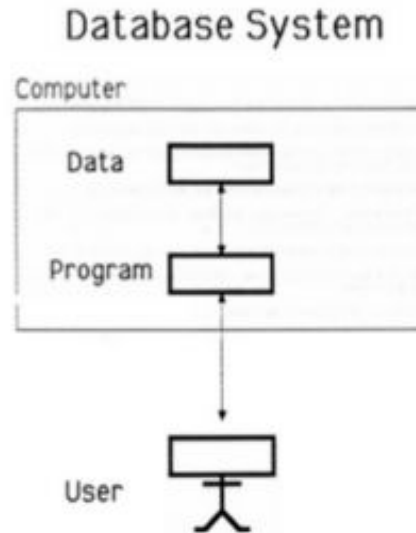
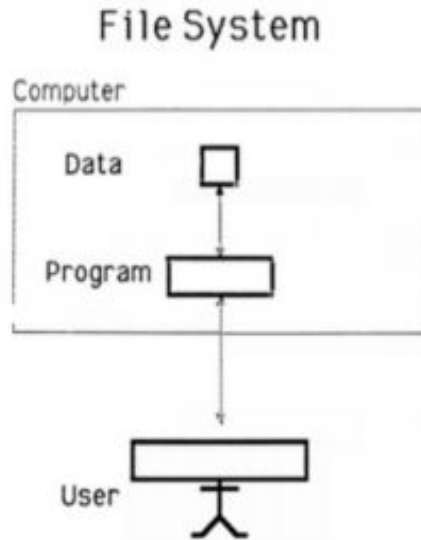
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# Differences Between Relational DB and SIM DB

- Relational
    - Aggregate Data by querying the SQL database on Apex
    - Apex is design to more easy support SQL/PL queries for a Relational DB
    - Triggers, constraints, and sequences need
  - SIM
    - Aggregate Data by querying REST server using web service shared component then JSON data needs to be translated using `json_table()` function
    - Less Apex support for calling web services (Using LOV required calling the wrapper function)
    - Object oriented design handles subclasses well
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# Complexity



**Relational DB**



**SIM DB**

- Set up model
- Set up ddl4
- Create pages
- Debug



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# Limitations of Sim

- No Delete function
    - Multiple entries
  - SIM doesn't currently support renaming/ Aliases
    - Limits ability to have robust report
  - Doesn't protect unique Identifiers (ID values)
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# Info

- Github
    - <https://github.com/jakemayo254/S16E5>
  - Part 1
    - [https://apex.oracle.com/pls/apex/f?p=28267:1:112799530846455::NO::P\\_ID,P\\_TYPE:0,%27%27](https://apex.oracle.com/pls/apex/f?p=28267:1:112799530846455::NO::P_ID,P_TYPE:0,%27%27)
  - Part 2
    - <https://apex.oracle.com/pls/apex/f?p=107624:1:20683152020988::NO::>
-