

## **Digital Systems**

3.1 Digital Product Management & Max Lab 1a|1b

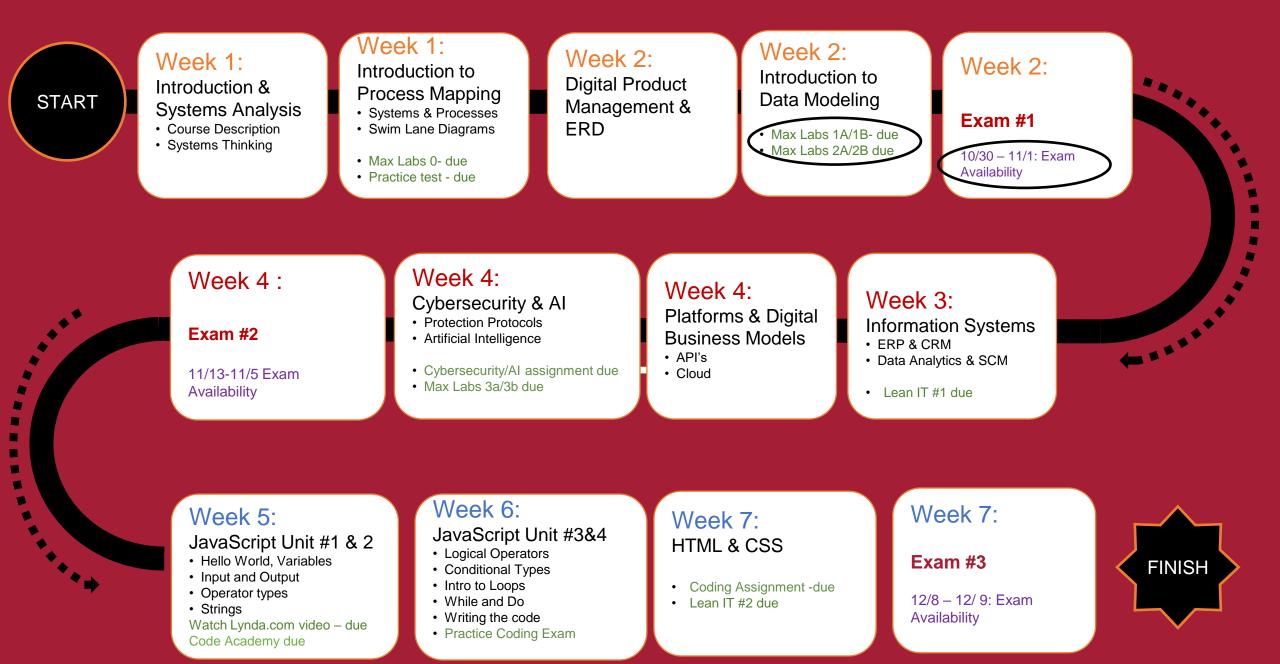


## **Attendance** Please login to Canvas and "Check-In"

Attendance is not a part of your grade for this class. The university has mandated that we take attendance for all classes, face-to-face, online and hybrid, to assist in contact tracing should an outbreak of Covid-19 occur.



#### ROADMAP







#### **Overview & Startup**

Source: https://www.salesforce.com/

### Why Salesforce?

This is not Salesforce training – rather, a great platform to deliver cloud-based systems products.

- Enables & Enhances Business
- Used By Industry Fortune 100's
  - Across All Business functional Areas
- Great Resume Builder For You!



Source: https://www.salesforce.com/

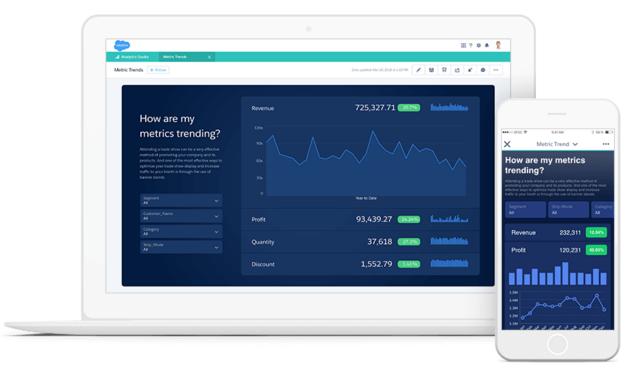


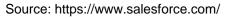


### Max Labs – Enabling Organizations

Technology Enables Organizations to work faster/smarter/more efficient

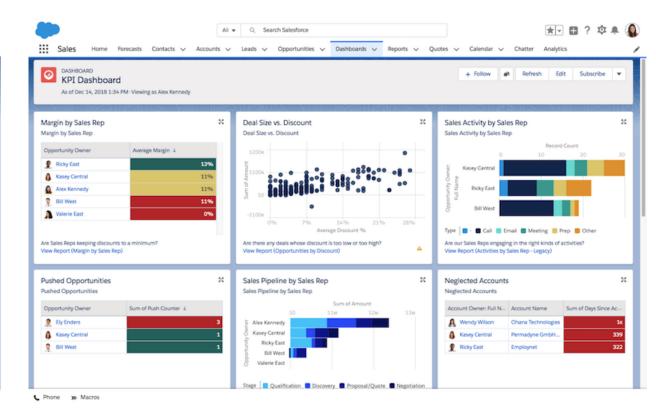
- See How It Works First-Hand
- Understand how Used by Industry Fortune 100's
  - Across all Business Functional Areas
- Great Resume Builder For You!





#### Max Labs – What do they include?

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C Phone & Einstein - Home Assistant & Einstein Insights - Opportunity In Macros

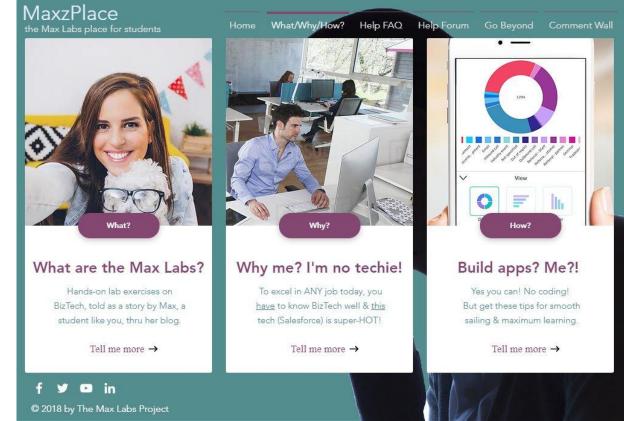
Source: https://www.salesforce.com/



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### Max Labs – Tips for Your Success

- READ the Pre-lab first. (Set's up your entire experience.)
- READ & FOLLOW every single instruction EXACTLY, in order. (You'll have no problems.)
- READ the cover sheet BEFORE you start every lab.
- ALWAYS read stories BETWEEN instructions. (Connections to our key Course Concepts)
- They're quick (allow about 60-90 min for each lab)
- DO NOT get the 30-day trial account from www.salesforce.com.
- The Lab 1b instructions tell you EXACTLY how to pay the lab fee. (Just follow them)
- If you're stuck, FIRST check the Help FAQ at MaxzPlace.com
- BE SURE your name appears on every screen-capture you submit to show your progress
- DO NOT use Yahoo! for your Salesforce account email. (Use Gmail)
- They're on the exams (w/un-guessable questions)
- They'll help you get a job (IF you can explain what you did/learned)



Source: https://www.maxzplace.com/what





#### Business Systems Innovation Labs Lab 1a Pre-flight Checklist

"I did it! Check this OUT!"

Today, you'll pick up where you left off with the story of Max, the SJSU student blogger. Just follow along as she describes what she did in her new job with a startup company.

Prep: What do you need to start?

## Max Labs 1

Max's Distinctive, Impressive BizTech Student Blo

#### **DUE by EOD November 1**



#### **Creating Databases (objects)**

- Why do we need these lists?
- Why not just use Excel?
- What are we tracking?
- Unique ID?

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Source: https://developer.salesforce.com/blogs/developer-relations/2017/04/salesforce-data-security-model-explained-visually.html





#### **Getting Started**

- Get a Salesforce account
- **DO NOT** get the 30-Day Free Trial Account
- **DO NOT** use an AOL, Hotmail or Yahoo account
- Do use a new Gmail account you create for this project.

Explore Lightning Platform, the fastest way to create enterprise cloud apps



Build apps Lightning fast with drag and drop tools Customize your data model with clicks Go further with Apex code Integrate with anything using powerful APIs Stay protected with enterprise-grade security Customize UI with clicks or any leading-edge web framework



Get your very own Developer Edition A full-featured copy of Lightning Platform, for FREE.

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Source: https://developer.salesforce.com/signup



#### **Determining Data Needs**

- What are Max's needs for creating the "Pitch"
- What data are we capturing?
- What are we tracking?
- How will this data be used?

The Good CRM 🛛 🕁 🖿

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Source: https://www.softwareadvice.com/resource/lice/updatet/bs///atdnoisesglossglorse/liceacne/addetyiong-businterse/licebjerets/



#### Page Layouts

- What information do we want to show.
- Why are aesthetics important?
- Creating cleaner data?

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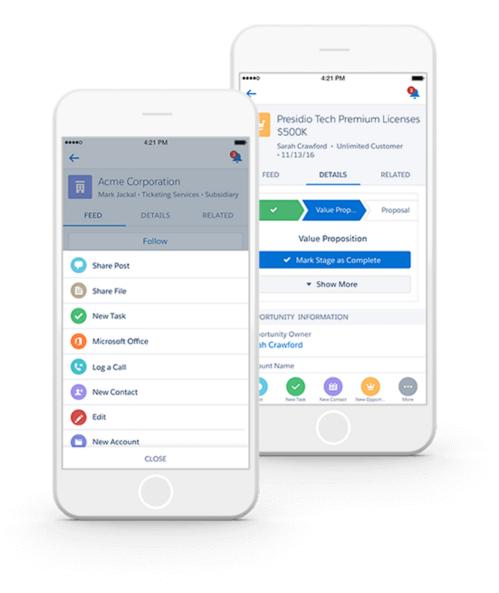
Source: https://admin.salesforce.com/learn-lightning-compact-layouts





#### Mobile App

- What information do we want to show.
- Why are aesthetics important?
- Is this an API, ERP, Both?



Source: https://www.salesforce.com/eu/learning-centre/crm/mobile-crm/



#### **Digital Business Models.**

- Share & Communicate
- Revise and Redesign
- 3<sup>rd</sup> Party Products (APIs)

#### FEATURED SOLUTIONS TOP CATEGORIES SHOW MORE > Secure **Cloud Contact Center Software †** Finance accountingseed Data for Sales and Service Collection Accounting on Salesforce NNN NewVoiceMedia FORMASSEMBLY Human Resources \*\*\*\* PAID \*\*\*\*\* PAID APP \*\*\*\* PAID APP APP ★ Enterprise Resource Planning **AInGenius HELLOSIGN F** formstack Native Form Builder for Salesforce Screen pop · Click-to-dial · Call logging ★ Sales \*\*\*\* PAID \*\*\*\* PAID \*\*\*\* PAID APP APP APP ★ Customer Service D&B Optimizer Contracts, quotes, proposals and more Deliver first-class Automated customer onboarding. TT & Admin Accelerate Sales with Clean Lead, TASKRAY MORE THAN PROJECT MANAGEMENT TRY IT C nintex Get a free trial Contact & Account Data \*\*\*\* PAID \*\*\*\* PAID APP \*\*\*\* PAID LIGHTNING DATA APP **★** Marketing conga Composer **†** Integration SurveyMonkey slalom ingaging documents, presentations, Make customer feedback strategy, technology, transformation, actionable in Salesforce Try it free ★ Salesforce Labs \*\*\*\* PAID APP \*\*\*\* PAID APP \*\*\*\*\* CONSULTANT

Source: https://appexchange.salesforce.com/

FOX MIS

★ Analytics



#### Monetize Max's Blog

- Do Not Close Your Browser
- Buy Now
- Click Confirmations
- Install (Launch Process)
- Max's Pitch Package



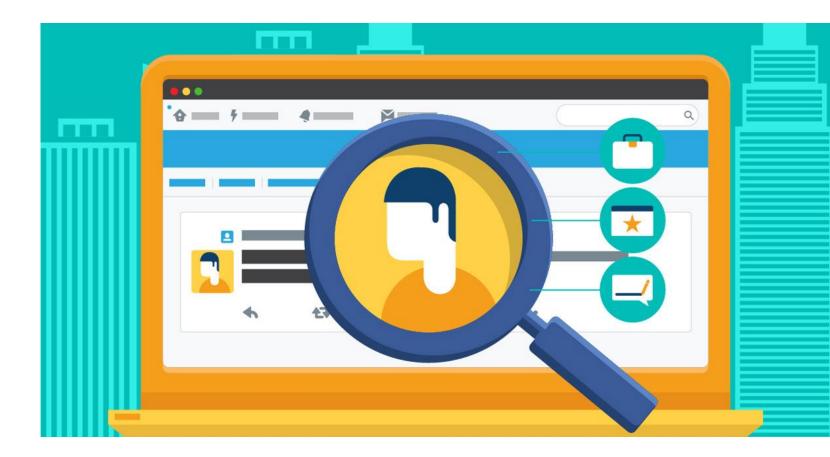
Source: https://www.themaxlabsprojectshop.com/





#### **Pitch Data File**

- CSV files
- Organization
- Viewing the Data
  - Customization



Source: https://www.salesforce.com/ca/blog/2016/09/sales-search-cheat-sheet.html



#### **Generating Reports**

- CSV files
- Organization
- Viewing the Data
  - Filtering
  - Integration

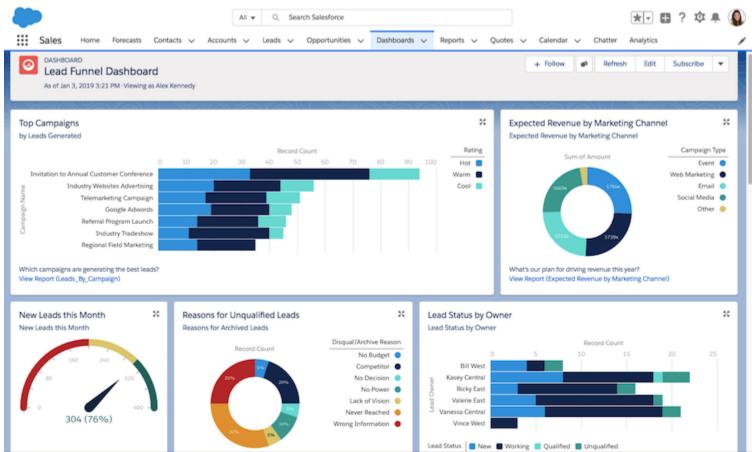
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Source: https://admin.salesforce.com/learn-lightning-create-reports



#### **Dynamic Dashboards**

- Database
- Monitoring
- Collaboration
- Customization



C Phone 39 Macros

Source: https://admin.salesforce.com/learn-lightning-create-reports



#### Business Systems Innovation Labs Lab 2a Pre-flight Checklist



"No Sh\*\*, Sherlock - The Case of the Lost Integrity"

Halloween's approaching & Max is back with another episode and a mystery to solve.

Prep: What do you need to start?

✓ If you didn't do Lab 1a and 1b, that's ok. Just do Steps 6-33 & 102-114 of Lab 1b and you're good for this one.

If you didn't get the Average Amount & Equity by Type report created successfully in Lab 1b, that's ok. When you hit Step 57 in this one, just refer to the screen cap of that report embedded after that step. No worries.



### **DUE by EOD November 1**



#### **Managing Data Corruption**

- What's the Issue?
  - Error Messages?
- Mitigation
  - Best Practices?
  - Validation Rules?



Source: http://techgenix.com/tgwordpress/wp-content/uploads/2018/06/data-corruption-Shutterstock.jpg





#### **Data Redundancy**

- Root Causes?
- Misrepresentation of Facts:
  - Corrupted Reports & Dashboard
- Solutions
  - Creating a Plan



Source: https://news.bitcoin.com/wp-content/uploads/2016/02/fl00.jpg





#### **Data Integrity**

- Velocity & Veracity
- Principles



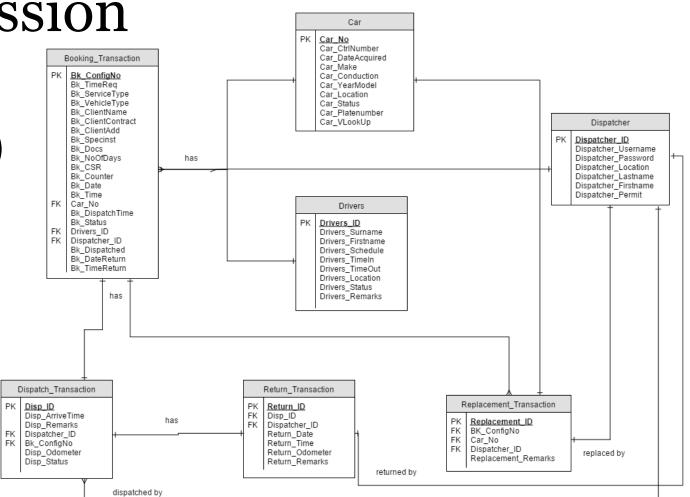
Source: http://www.rightpatient.com/wp-content/uploads/2015/05/Data-Integrity-2.jpg





#### **Entity Relationship Diagrams (ERD's)**

- Cardinality & Crow's Feet
- Data Modeling Requirements
  - Understanding Users Needs
  - Preventing Redundancy



Source: https://sites.google.com/site/dracvbms/entity-relationship-diagram



#### **Importing Data**

- Creating Tables
- Avoiding Redundancy



Source: https://nebulaconsulting.co.uk/wp-content/uploads/2014/04/pexels-photo-1179800.jpeg



#### **Avoiding Redundancy**

- Data Normalization
- Understanding Relationships
- ERD's

**Use Cases** 



Source: https://www.salesforce.com/blog/2015/11/3-steps-to-the-proper-care-and-handling-of-your-data.html





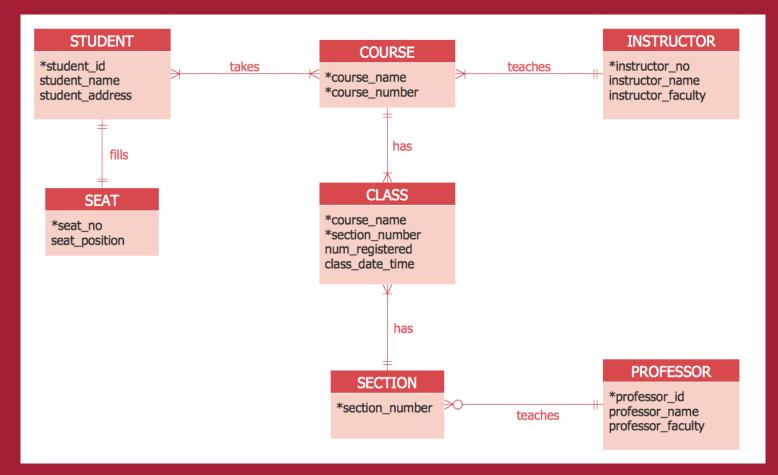


## **Digital Systems**

3.2 Data Modeling with Entity Relationship Diagrams (ERD)



### What is an "Entity Relationship Diagram"?

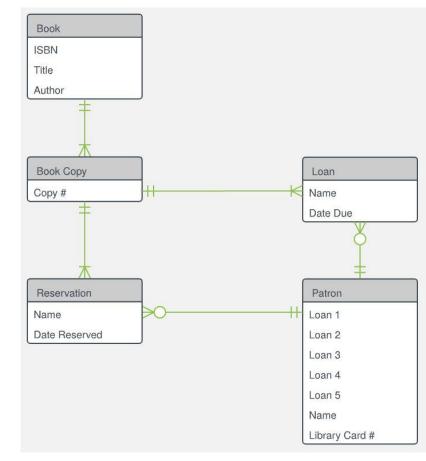


#### Data Model Entity = Noun | Attribute = Adjective | Relationship = Verb

Source:https://www.conceptdraw.com/How-To-Guide/picture/SOFTWARE-DEVELOPMENT-ERD-Crows-Foot.png

### What is an Entity Relationship Diagram?

An Entity Relationship Diagram (ERD) is a visual representation of different data using conventions that describe how these data are related to each other.

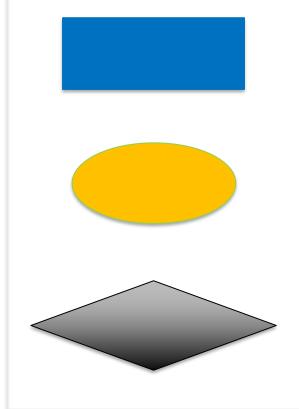


Source:https://d2slcw3kip6qmk.cloudfront.net/marketing/pages/chart/examples/li braryerdiagram.svg





#### Primary ERD Symbols: Chen's Database Notation



- Entity = noun
   ex: shopper, item
- Attribute = adjective/characteristic ex: item price
- Relationship = verb ex: buys





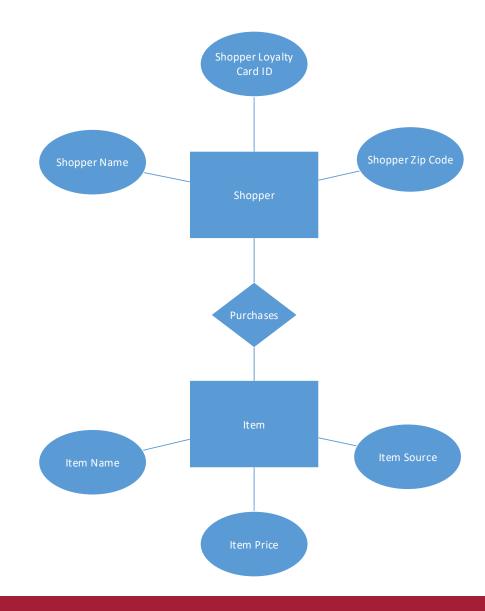
#### Translating

A shopper walks into a store to buy an item. When the shopper makes a purchase, the system is updated with information about the person, including their name, loyalty card id and zip code. The store also records which items were purchased, including details like item name, price and item source.



#### Entity Relationship Diagram

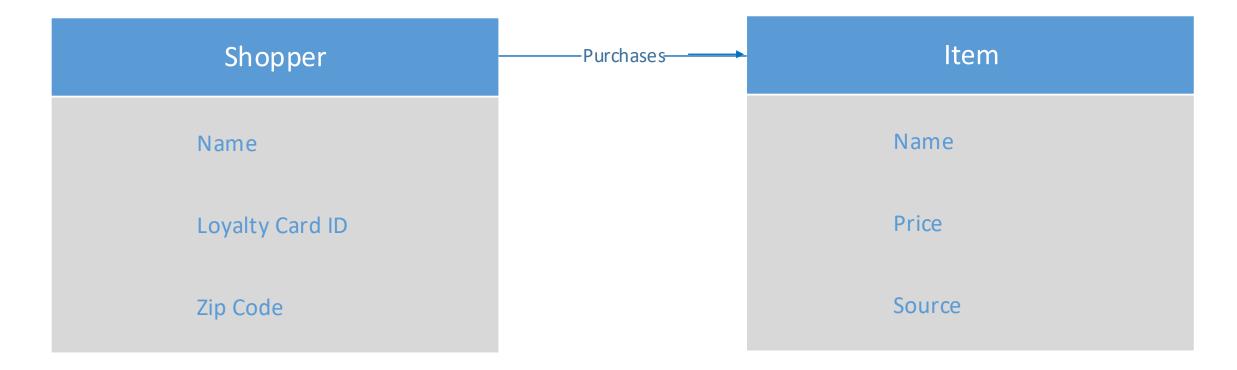
#### **Chen's Database Notation**







### Entity Relationship Diagram: ERD tables

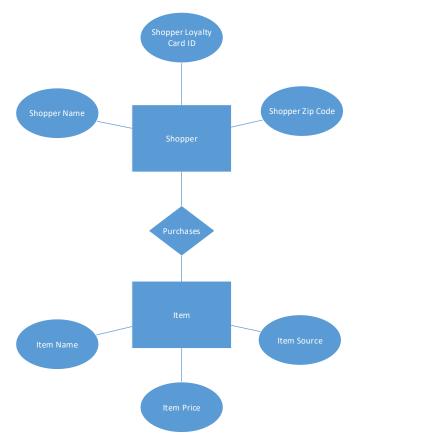


#### **Crow's Foot Database Notation**

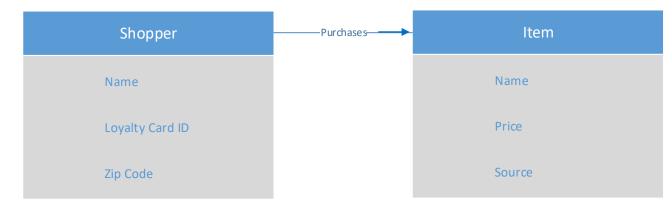




### Entity Relationship Diagram: recap



A shopper walks into a store to buy an item. When the shopper makes a purchase, the system is updated with information about the person, including their name, loyalty card id and zip code. The store also records which items were purchased, including details like item name, price and item source.



#### **Crow's Foot Database Notation**

#### **Chen's Database Notation**





### Swim Lane Diagrams – Order to Cash (O2C)

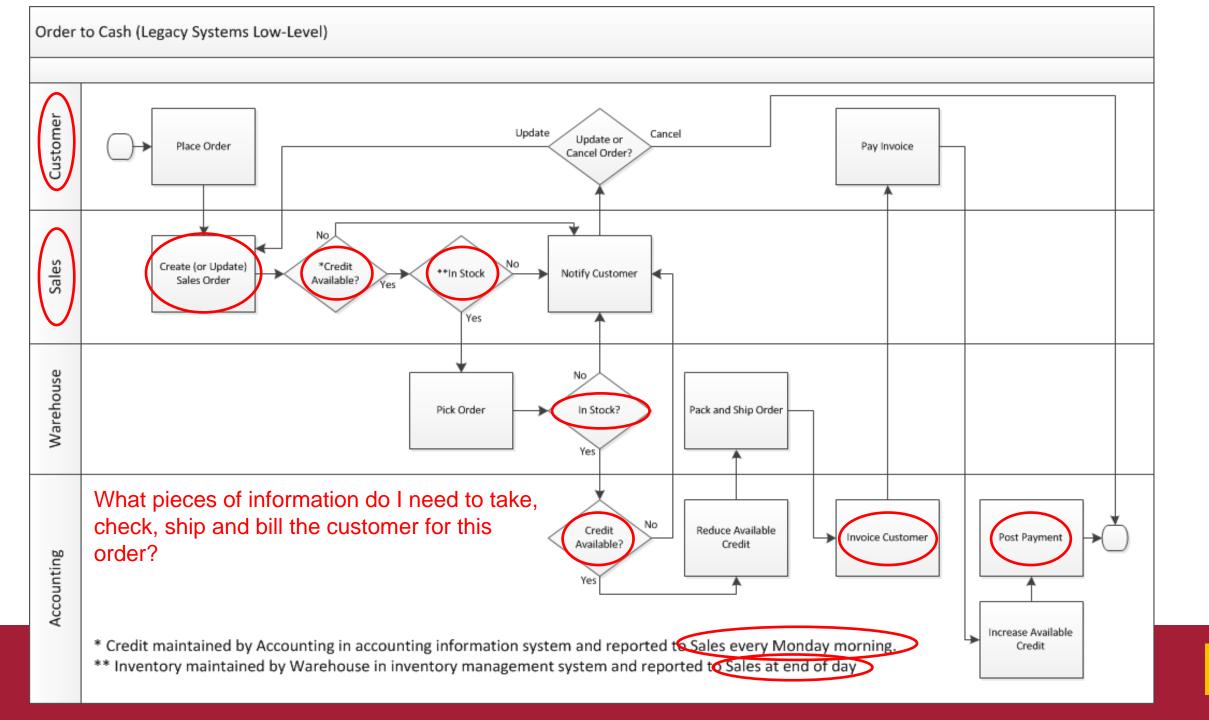
The process starts when the customer contacts Sales to place an order. The person in Sales creates the sales order. As part of doing this, the person in sales first checks to see if the customer has enough available credit to cover the order. They do this by looking up the customer's credit on a report that is generated by Accounting and sent to Sales every Monday morning. If the customer doesn't have enough available credit then the person in sales notifies the customer who can then either update or cancel their order. Next the person in sales checks to see if the items being ordered are in stock. They do this by checking a report on inventory that the Warehouse created at the end of each day. If the items being ordered are not in stock then the person in Sales notifies the customer who can then update or cancel their order. If the report indicates the items are in stock then the order goes to the Warehouse where the workers there will pick the order. Since Sales is looking at a report that is only updated at the end of each day, there is a chance that they accepted an order for an item that is not really in stock. If that is the case the Warehouse notifies Sales who then notifies the customer who can update or cancel their order...



### Swim Lane Diagrams – Order to Cash (O2C)

...Once the people in the warehouse pick the order, the people in Accounting have to make sure that the customer actually has enough credit to cover the order. Since the people in Sales use a credit report that is generated on Monday morning, there is a chance that the information on the credit report is old. If the customer doesn't have enough available credit then Accounting notifies Sales who then notifies the customer who can then choose to update or cancel their order. If the customer has enough available credit then their available credit is reduced by the total cost of the order and the warehouse is notified and they pack and ship the order. As soon as the order is shipped the people in the warehouse notify accounting and accounting generates and sends the invoice to the customer. When the customer pays the invoice the people in Accounting increase the customer's available credit by the amount of the payment, they post the payment and we're done.





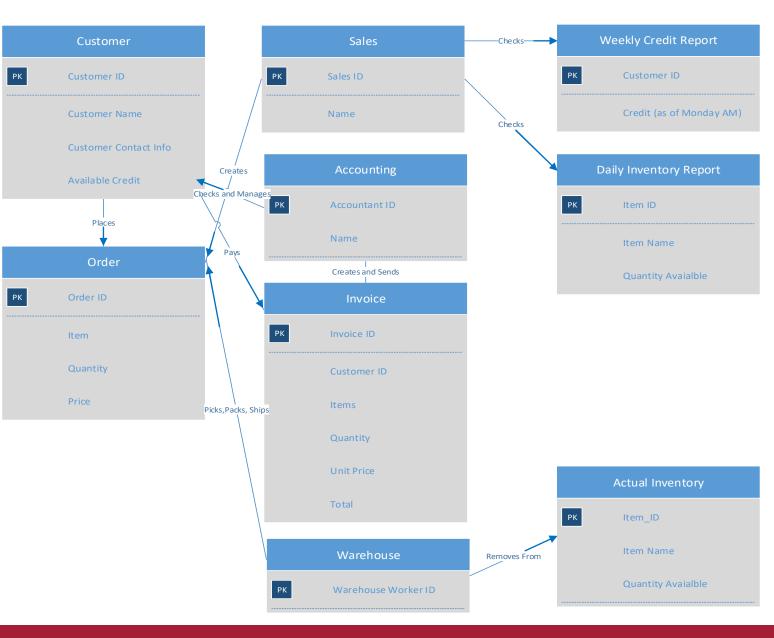
FOX MIS

### ERD: tables

- Relationship, i.e. verb is written on the arrow
- Entity listed at the top of the table
- Attributes are listed under the entity

Legend :

• PK : Primary Key







## **Digital Systems**

Entity Relationship Diagrams - 1 In-Class Activity



### Entity Relationship Diagrams - 1

What:

- Interpret an entity relationship diagram
- Construct a simple entity relationship diagram from provided story
- Add the attributes you would expect to be needed for each entity Why:
- ERDs model the *information* required for a process
- ERDs supplement swim lane diagrams and complete a bigger picture





## **Digital Systems**

Entity Relationship Diagrams - 2 In-Class Activity



## Entity Relationship Diagrams - 2

What:

- Construct a more complex entity relationship diagram from provided story Why:
- ERDs model the information required for a process
- ERDs supplement swim lane diagrams and complete a bigger picture



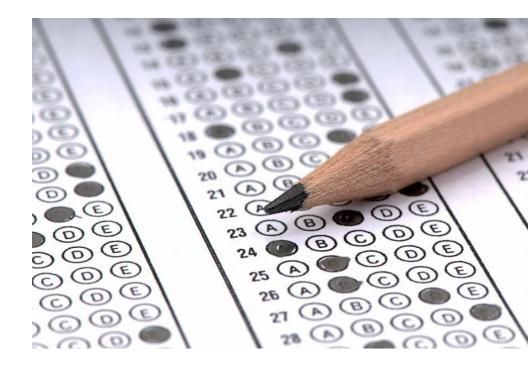
# Exam 1 using Proctorio

Opens Friday (10/30) at 6PM Close Sunday (11/1) at 11:59PM

#### Exam Will Cover Discussions: week 1 & 2

- Readings, Videos and Lectures (35%)
  - What is MIS?
  - Systems Analysis & Systems Architecture
  - Swim Lane Diagrams
  - ERD
- Max Labs 1a/1b & 2a/2b (25%)
  - Digital Product Management
  - Concepts of Max Labs
- Mini-Case Demonstrate your ability to apply (40%)
  - Swim Lane Diagram
  - ERD





Source: https://ccesnews.org/opinion/2018/04/23/10-tips-for-exam-preparation/#photo



### To do: Exam Prep

- Practice Swim Lane (let's review answers!)
- Review slide deck "MIS 2101 Exam 1 prep"
- Practice ERD (will send email)



## More to Come

Prepare with Readings & Videos before our next class!!!