Lexzander Saplan – 014177252 David Brown – CECS 323

1. List the names of all **customers** that are located in the same state as an **office**

 $\pi_{customerNames}$ customers $\bowtie_{customers.state} = offices.state$ offices

- 2. List the names of all **customers** who have ordered **products** where the vendor is "Classical Metal Creations" $\pi_{\text{customerNames}} \sigma_{\text{productVendor} = \text{`Classical Metal Creations'}}$ (customers \bowtie orders \bowtie products)
- 3. List the names of all **customers** whose **order** was shipped within three days of being ordered $\pi_{\text{customerNames}} \sigma_{\text{(orders.shippedDate orders.orderDate)}} = 3 \text{ (customers } \bowtie \text{ orders.})$
- 4. List the names of all **customers**, their service reps and the **offices** that the service reps work in $\pi_{\text{customerNames, lastName, firstName, addressLine1, addressLine2}$ (customers \bowtie employees \bowtie offices)
- 5. List the names of all **customers** who didn't **order** any products in 2015 $\pi_{\text{customerNames}} \sigma_{\text{orders.orderDate}} = 2015$ (customers = \bowtie orders)
- 6. List the **employee** first and last name, and their **customer**'s name even if the **employee** is not working with a **customer**

 π firstName, lastName, customerName (employee = \bowtie employeeNum customer)

- 7. List all of the possible statuses for an **order** π_{status} (orders)
- 8. List all **orders** where the quantity of a product orders is greater than the quantity of that product on hand $\pi_{\text{orderNumber}} \sigma_{\text{quantityOrdered} > \text{quantityInStock}}$ (orders $\bowtie_{\text{(orderNumber)}} \sigma_{\text{dernoumber}} \sigma_{\text{quantityOrdered}}$)
- 9. List the **Employee** last name and first name that work in Japan $\pi_{\text{lastName}, \text{firstName}} \sigma_{\text{country}} = 'Japan', \text{(employees} \bowtie \text{offices)}$