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

π customerNames customers ⋈ (state) offices **OR** π customerNames σ customers.state = offices.state customers ╳offices

1. List the names of all **customers** who have ordered **products** where the vendor is “Classical Metal Creations”

π customerNames σ productVendor = ‘Classical Metal Creations’ (customers ⋈ orders ⋈ products)

1. List the names of all **customers** whose **order** was shipped within three days of being ordered

π customerNames σ (orders.shippedDate - orders.orderDate) <= 3 (customers ⋈ orders)

1. List the names of all **customers**, their service reps and the **offices** that the service reps work in

π customerNames, lastName, firstName, offices.addressLine1, office.addressLine2, offices.city, offices.state, offices.country (customers ⋈ customers.salesRepEmployeeNumber = employees.employeeNumber employees ⋈ (officeCode) offices)

1. List the names of all **customers** who didn’t **order** any products in 2015

π customerNames σ orders.orderDate != 2015 (customers = ⋈ orders)

1. 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 = ⋈ customer.customerSalesRepEmployeeNumber = employee.employeeNumber customer)

1. List all of the possible statuses for an **order**

π status (orders)

1. List all **orders** where the quantity of a product orders is greater than the quantity of that product on hand

π orderNumber σ quantityOrdered > quantityInStock (orders ⋈ (orderNumber) orderDetails ⋈ products)

1. List the **Employee** last name and first name that work in Japan

π lastName, firstName σ country = ‘Japan’ (employees ⋈ offices)