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## **Company Overview and Product**

#### Company Name

HumidCare

#### Company Description

At HumidCare Solutions, we specialize in providing top-of-theline dehumidifiers to transform your living spaces into comfortable, moisture-free environments. With a commitment to innovation and customer satisfaction, we offer a curated selection of cutting-edge solutions designed to address a variety of humidity-related concerns.

Explore our online platform to discover a range of highperformance dehumidifiers meticulously chosen to suit your specific needs. From combating mold and mildew to improving indoor air quality, HumidCare Solutions is your trusted partner in creating healthier and more comfortable living spaces.

We take pride in offering not just products, but solutions that make a meaningful impact on your daily life. Our user-friendly website ensures a seamless shopping experience, providing detailed product information and expert guidance to help you make informed decisions.

At HumidCare Solutions, customer satisfaction is our priority. Our dedicated team is ready to assist you every step of the way, ensuring that you receive not only a quality dehumidifier but also unparalleled service. Take the first step towards a drier, more comfortable environment – choose HumidCare Solutions for all your dehumidification needs.

#### **Product**

**Dehumidifiers** 

#### **Product Attribute**

- Product Code Primary Key
- Model Number
- Brand
- Type
- Serial Number
- Description
- Size
- Weight
- Color
- Height
- Width
- Price

### **HumidCare**

371 Main Street Ottawa, ON N7L 4T3 Canada 545-558-8520

### **Customer Invoice**

Customer ID: #1920 Order ID: 3948

Customer Name: L. Mason Order Date: 02-03-2024

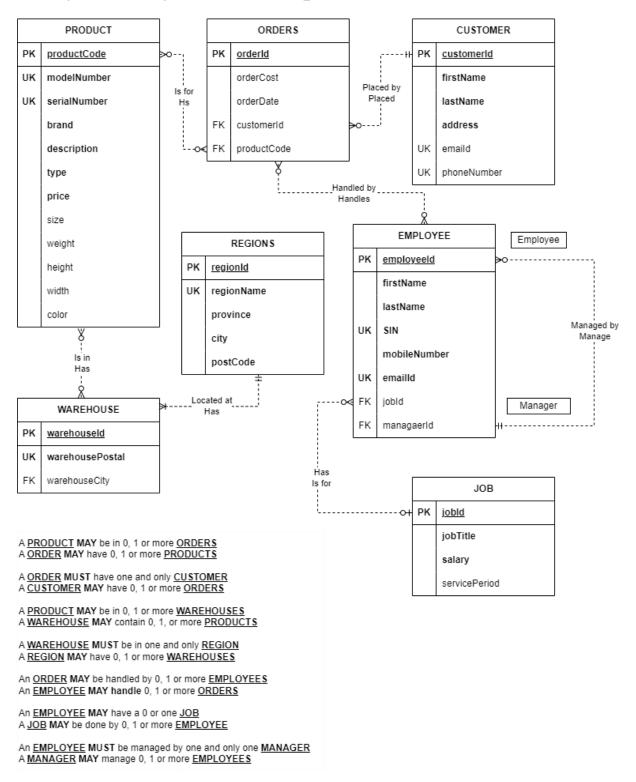
Customer Address: 1234 Kellman Street Associate ID: 443

Toronto, ON J7P 4F5 Canada Associate Name: M. Jon

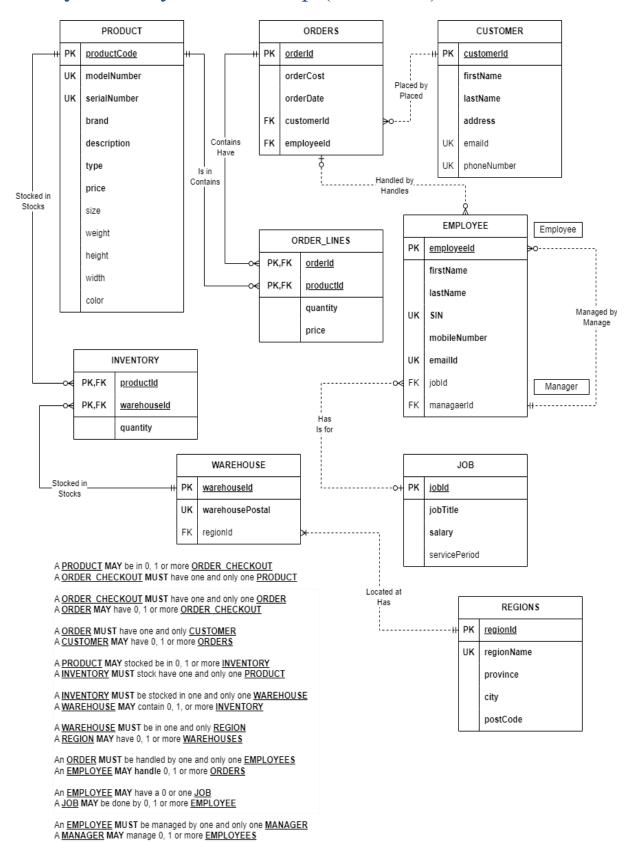
Product Code	Model	Brand	Description	Qty	Unit Price	Total Price
L324	DH3009	Dehumify	Efficient Moisture Removal	2	59.9	119.8
K859	DH4678	Dehumify	Quiet Operation Technology	3	159.5	478.5
P7389	FK2532	FanHum	Space-saving Design	1	34.99	34.99
P7340	FK2598	FanHum	Space-saving Design	1	36.99	36.99
P7391	FK2267	FanHum	Max Space Design	2	134.99	269.98
					Sub-total	389.78
					Tax	62.205
				Invo	oice Total	451.985

# **Entity Relationship Diagrams**

## Many to Many Relationship (Not Resolved)



### Many to Many Relationship (Resolved)



# Relational Model & Business Rules

		PRODUCTS		
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH
PK	*	productCode	integer	
UK	*	modelNumber	varchar	30
UK	*	serialNumber	varchar	30
	*	brand	varchar	20
	*	description	varchar	100
	*	type	varchar	20
	*	price	decimal	10,2
	O	size	decimal	10,2
	O	weight	decimal	10,2
	O	height	decimal	10,2
	O	width	decimal	10,2
	0	color	varchar	10

	ORDERS					
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH		
PK	*	orderId	integer			
	*	orderCost	decimal	10,2		
	*	orderDate	date			
FK	*	customerId	integer			
FK	*	employeeId	integer			

ORDER_LINES						
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH		
PK,FK	*	orderId	integer			
PK,FK	*	productId	integer			
	*	quantity	decimal	10,2		
	*	price	decimal	10,2		

	CUSTOMER						
KEY	<b>OPTIONALITY</b>	COLUMN NAME	DATA TYPE	LENGTH			
PK	*	customerId	integer				
	*	firstName	varchar	30			
	*	lastName	varchar	30			
	*	address	varchar	50			
UK	О	emailId	varchar	20			
UK	О	phoneNumber	varchar	10			

	EMPLOYEE					
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH		
PK	*	employeeId	integer			
	*	firstName	varchar	30		
	*	lastName	varchar	30		
UK	*	SIN	integer	10		
	*	mobileNumber	varchar	10		
UK	*	emailId	varchar	20		
FK	О	jobId	integer			
FK	0	managerId	integer			

		JOB		
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH
PK	*	jobId	integer	
	*	jobTitle	varchar	30
	*	salary	decimal	10,2
	О	servicePeriod	decimal	60,2

INVENTORY						
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH		
PK,FK	*	productId	integer			
PK,FK	*	warehouseId	integer			
	*	quantity	decimal	10,2		

	WAREHOUSE					
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH		
PK	*	warehouseId	integer			
UK	*	warehousePostal	varchar	20		
FK	О	regionId	varchar	20		

REGIONS					
KEY	OPTIONALITY	COLUMN NAME	DATA TYPE	LENGTH	
PK	*	regionId	varchar	20	
UK	*	regionName	varchar	20	
	*	province	varchar	20	
	*	city	varchar	20	
	*	postCode	varchar	20	

PRODUCTS(<u>productCode</u>, modelNumber, serialNumber, brand, description, type, price, size, weight, height, width, color)

ORDERS(orderId, orderCost, orderDate, customerId, employeeId)

FK customerId → CUSTOMER

FK employeeId → EMPLOYEE

ORDER\_LINES(orderId, productId, quantity, price)

FK orderId → ORDERS

FK productid → PRODUCTS

Term Project 01

CUSTOMER(<u>customerId</u>, firstName, lastName, address, emailId, phoneNumber)

EMPLOYEE(<u>employeeId</u>, firstName, lastName, SIN, mobileNumber, emailId, jobId, managerId)

FK jobId → JOB

FK managerId → EMPLOYEE

JOB(<u>iobId</u>, jobTitle, salary, servicePeriod)

INVENTORY(productid, warehouseId, quantity)

FK productid → PRODUCTS

FK warehouseId → WAREHOUSE

WAREHOUSE(warehouseId, warehousePostal, regionId)

FK regionId → REGIONS

REGIONS(<u>regionId</u>, regionName, province, city, postCode)

**Auto-generated columns:** Automatically generated unique identifier for each record with respect to their table.

PRODUCTS: productCode

**ORDERS**: orderId

**CUSTOMER**: customerId

**EMPLOYEE**: employeeId

JOB: jobId

WAREHOUSE: warehouseId

**REGIONS**: regionId

Term Project 01

#### Restrictions to column values.

**JOB:** salary, default to 20,000

**JOB:** salary, ranges between 20,000 to 1,50,000