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ID - C0837117 Product- Drills

Term Project Nitro Drills



Database Design & SQL Faculty – Jim Cooper Term – Fall

CONTENTS

Company Description	2
1.1 Company Name	2
1.2 Company Overview	2
1.3 Product	3
1.4 Product Attribute	3
Customer Sale Invoice	4
2.1 Invoice	4
Entity Relationship Diagrams	5
3.1 ER Diagram (With M:M)	5
3.2 ER Diagram (Without M:M)	
Relational (Physical) Model	

Company Description

I.I Company Name:

Nitro Drills

1.2 Company Overview:

Nitro Drills was establish in 2016 with the goal to deliver tools necessary in several works maintaining the quality, durability and lowest price possible to the customers. At first we were named 'Nitro Tools'. But then as the sales growth in drills were much more than other products, we focused on just only one product to deliver the best drills possible to our customers.



Now we are known as one of the best drills seller in the country. We have drills of the best price range and functionality and our drills are particularly known for durability. We have several brands in our collection. We focus on customer satisfaction more than anything. We believe that customers are always right.

Company Description

I.3 Product:

Drills

I.4 Product Attribute:

Attributes	Sample Data
Product Id (UK)	12345
Model Number	58736
Product Name	Black & Decker Electronic Drill
Assembly Required	No
Batteries Required	Yes
Batteries Included	Yes
Manufacturer	JAKKS Pacific
Stock	100
Product Dimension	5.08 x 21.29 x 24.13 cm;
Weight	900 gm
Color	Yellow
Warranty	2 Years

Customer Sale Invoice

2.1 Invoice:

Nitro Drills

437 Patterson Street Toronto, ON M1K 5V5 437-123-3098

Invoice of:

Nicole Coleman 53 Silvio Ave, Sarnia, ON, M1L 2K3 237-228-0291 Invoice No: 304852 Customer ID: 234345 Date: 22.10.2021

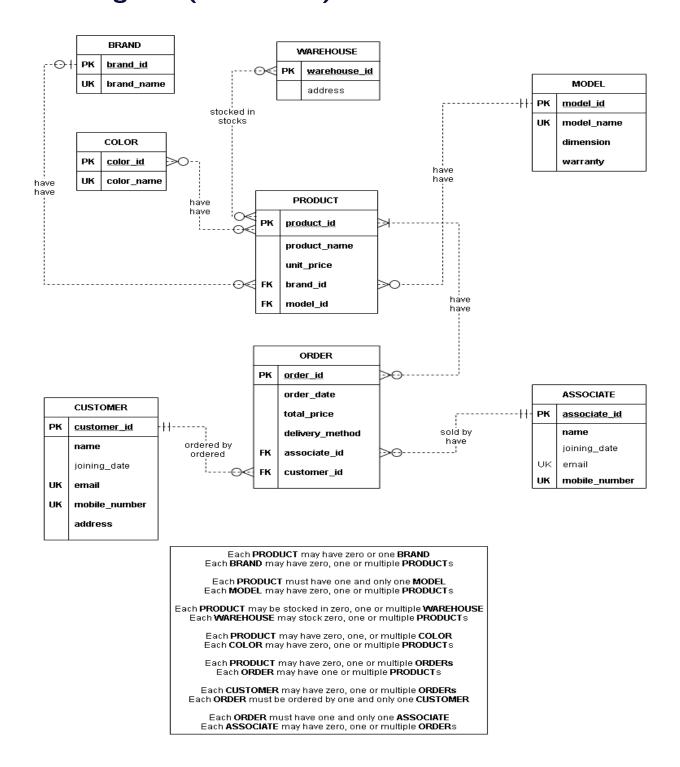
Payment: Cash on Delivery
Delivery Method: Home Delivery

PRODUCT ID	MODEL	QTY	BRAND	Color	UNIT PRICE	EXTENDED PRICE
345334	345-V	1	Black Decker	Black	\$99.99	\$199.98
567453	MK-234	2	DEWALT	Red	\$100.00	\$200.00
345346	SLR-2	1	воѕсн	Yellow	\$89.99	\$89.99
456345	232-SV	3	wo	Black	\$120.00	\$360.00
870678	MARK-2	1	Craftsman	Navy	\$98.99	\$98.99

Sub-Total	\$948.96
Тах	\$49.00
Total	\$997.96

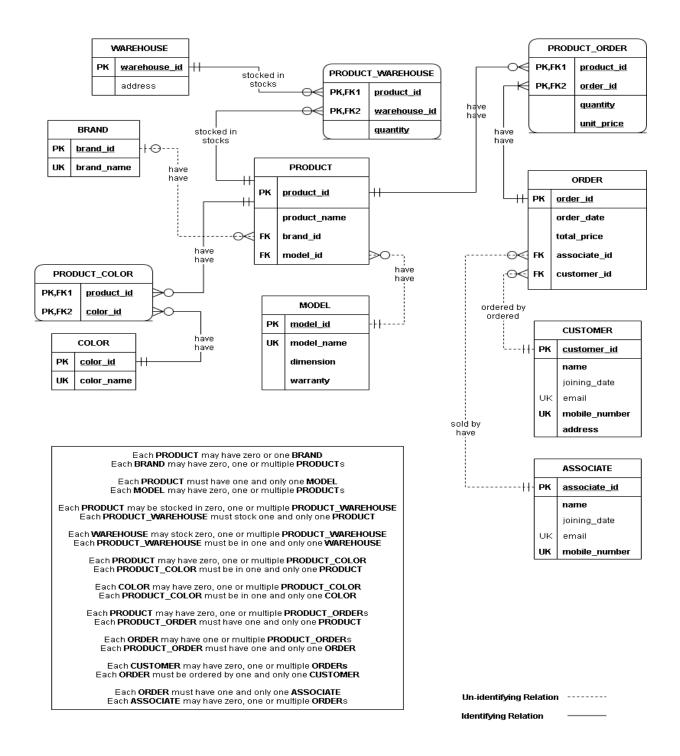
Entity Relationship Diagrams

3.I ER Diagram (With M:M):



Entity Relationship Diagrams

3.2 ER Diagram (Without M:M):



Relational (Physical) Model

	PRODUCT					
Key Type	Optionality	Column Name	Datatype	Length		
PK	*	product_id	INTEGER			
	*	product_name	VARCHAR	30		
FK	*	brand_id	INTEGER			
FK	*	model_id	INTEGER			

		MODEL		
Key Type	Optionality	Column Name	Datatype	Length
PK	*	model_id	INTEGER	
UK	*	model_name	VARCHAR	30
	*	dimension	VARCHAR	50
	*	warranty	INTEGER	

		ORDER		
Key Type	Optionality	Column Name	Datatype	Length
PK	*	order_id	INTEGER	
	*	order_date	DATE	
FK	*	total_price	DECIMAL	5,2
FK	*	associate_id	INTEGER	
FK	*	customer_id	INTEGER	

CUSTOMER						
Key Type	Optionality	Column Name	Datatype	Length		
PK	*	customer_id	INTEGER			
	*	name	VARCHAR	30		
FK	0	joining_date	DATE			
UK	0	email	VARCHAR	50		
UK	*	mobile_number	VARCHAR	10		
	*	address	VARCHAR	150		

	WAREHOUSE						
Key Type	Optionality	Column Name	Datatype	Length			
PK	*	warehouse_id	INTEGER				
	*	address	VARCHAR	150			

Relational (Physical) Model

		ASSOCIATE		
Key Type	Optionality	Column Name	Datatype	Length
PK	*	associate_id	INTEGER	
	*	name	VARCHAR	30
FK	0	joining_date	DATE	
UK	0	Email	VARCHAR	30
UK	*	mobile_num	VARCHAR	10

	PRODUCT_WAREHOUSE						
Key Type	Key Type Optionality Column Name Datatype Length						
PK,FK	*	warehouse_id	INTEGER				
PK,FK	*	product_id	INTEGER				
	*	quantity	INTEGER				

	PRODUCT_ORDER							
Key Type	Key Type Optionality Column Name Datatype Length							
PK,FK	*	project_id	INTEGER					
PK,FK	*	order_id	INTEGER					
	*	quantity	INTEGER					
	*	unit_price	DECIMAL	(5,2)				

BRAND						
Key Type	Optionality	Column Name	Datatype	Length		
PK	*	brand_id	INTEGER			
UK	*	brand_name	VARCHAR	30		

COLOR						
Key Type	Optionality	Column Name	Datatype	Length		
PK	*	color_id	INTEGER			
UK	*	color_name	VARCHAR	30		

PRODUCT_COLOR						
Key Type	Optionality	Column Name	Datatype	Length		
PK,FK	*	product_id	INTEGER			
PK,FK	*	color_id	INTEGER	30		