#### **Asif Mahmud**

ID - C0837117 Product- Drills

# Term Project Nitro Drills



Database Design & SQL Faculty – Jim Cooper Term – Fall

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### Company Description

#### I.I Company Name:

Nitro Drills

#### **I.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
<b>Product Dimension</b>	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

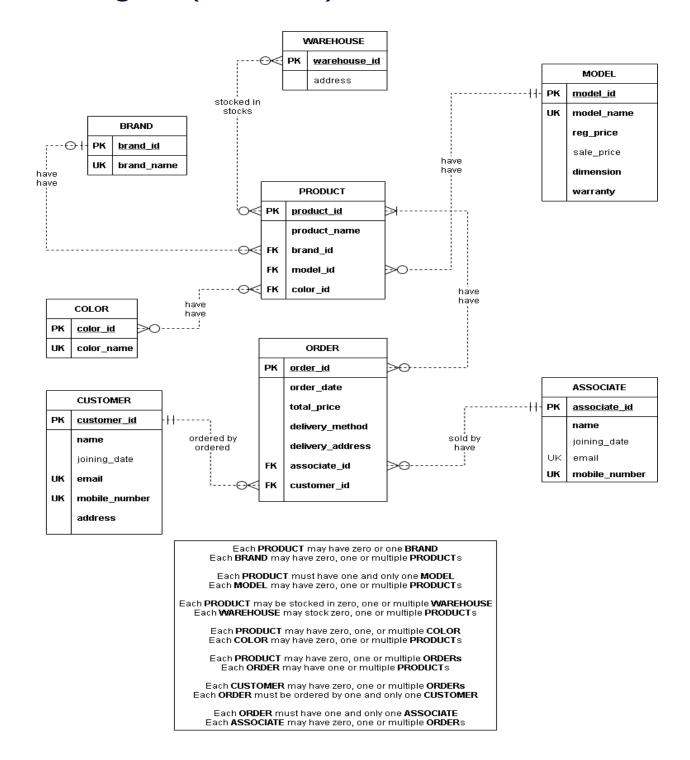
Payment: Cash on Delivery
Delivery Method: Home Delivery

PRODUCT ID	MODEL	QTY	BRAND	Color	UNIT PRICE	EXTENDED PRICE
345334	345-∨	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-\$V	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

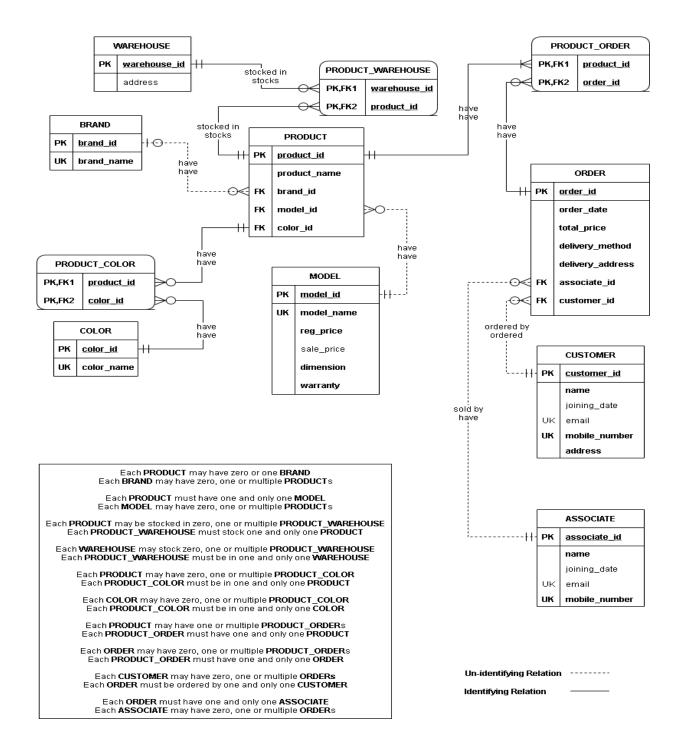
### Entity Relationship Diagrams

#### 3.1 ER Diagram (With M:M):



### Entity Relationship Diagrams

#### 3.2 ER Diagram (Without M:M):



## Relational (Physical) Model

		PRODUCT		
Кеу Туре	Optionality	Column Name	Datatype	Length
PK	*	product_id	INTEGER	
	*	product_name	VARCHAR	30
FK	*	brand_id	INTEGER	
FK	*	model_id	INTEGER	
FK	*	color_id	INTEGER	

		MODEL		
Key Type	Optionality	Column Name	Datatype	Length
PK	*	model_id	INTEGER	
UK	*	model_name	VARCHAR	30
	*	reg_price	DECIMAL	5,2
	0	sale_price	DECIMAL	5,2
	*	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
	*	delivery_method	VARCHAR	30
	*	deliver_address	VARCHAR	150
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	

### 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

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

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

	PRODUCT_ORDER						
Key Type	Optionality	Column Name	Datatype	Length			
PK,FK	*	project_id	INTEGER				
PK,FK	*	order_id	INTEGER				

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			