

# ONLINE SHOP DATABASE

Baby Shark



# SUMMARY

<b>SUMMARY.....</b>	<b>2</b>
<b>INTRODUCTION .....</b>	<b>3</b>
<b>DIAGRAM .....</b>	<b>5</b>
<b>DATABASE CREATION.....</b>	<b>6</b>
<b>QUERIES LIST .....</b>	<b>9</b>

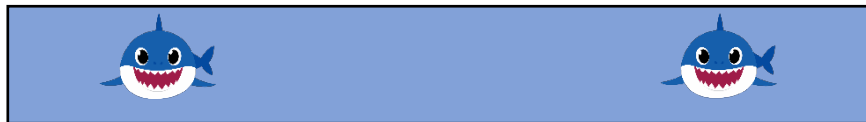
# INTRODUCTION

Welcome to BabyShark, the worldwide online shop! Thanks to our very intuitive interface, you'll be able to find the best products in the shortest time.

## **You're a client?**

You can search for any product you want. If you have any problem, you can directly find the supplier's contact to make their product better.

**How can you register to our website?** Nothing simpler: go to "Sign in", create a username and a password, then fill the information about you so you could get a better service.



## **New to BabyShark?**

Username: TheForce  
Password: Vador2004\$  
Name: Skywalker  
First name: Luke  
Address: 204 Yoda Avenue, Earth  
Birthday: 4026/07/21  
Phone: +1 (245) 555-0117  
Mail: luke.skywalker@vador.universe

**What will you be able to do on it?** Thanks to our many suppliers, you can find anything you want. You'll be delivered at home or through the closest withdrawal point from you. You can find our list on [www.babyshark.com/withdrawalpoints](http://www.babyshark.com/withdrawalpoints).

NAME	Address
<b>Pet Your Dog</b>	1694 Rue Sainte Catherine, Montréal
<b>Dollarama</b>	8 Avenue Squirrel, Québec
<b>Pharmaprix</b>	368 Avenue Céline Dion, Ottawa
<b>Flower Power</b>	45 Boulevard Henri Bourassa, Toronto
<b>Casino Royal</b>	3456 Rue Orignal, Vancouver
<b>Find A Job</b>	29 Boulevard Trudeau
<b>Beers For Happiness</b>	5 Avenue Sainte Hélène, Montréal

Thanks to our registration form, we can avoid you going through the complete list and we'll show you the 5 closest withdrawal points. If you decide to register to our Super Baby Shark account (costs 20\$ a month), you'll be able to receive free products once every 6 month and have promotions for your birthday on your favorite products!

If you encounter any problem or have any feed back about your product, please find the supplier's contact on this following list: [www.babyshark.com/suppliers-list](http://www.babyshark.com/suppliers-list). It will help them improve their products and help us improve our services.

**You're a supplier?**

You can improve your services by checking which product is the most popular of all!

**How can you register to our website?** After pressing "Sign in", enter your coordinates and sell your best merge!



**New to BabyShark?**

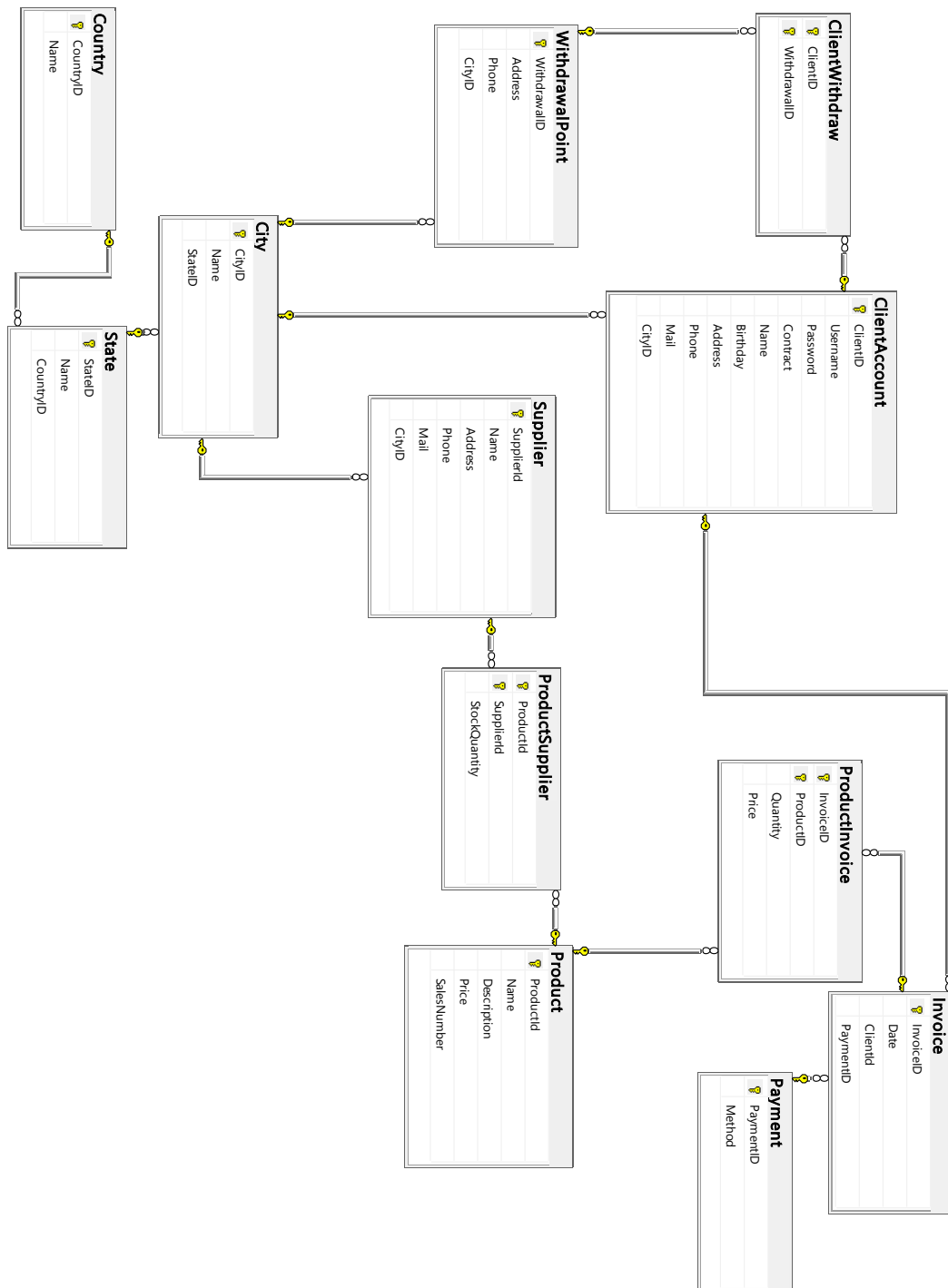
Company name: Millennium Falcon  
Password: Chewbacca184#  
Address: 204 Laser Saber Boulevard, Saturn  
Phone: +1 (265) 369-0104  
Mail: [han.solo@millennium-falcon.universe](mailto:han.solo@millennium-falcon.universe)

**What will you be able to do on it?** Despite uploading your own new products, you'll can directly check which products are the most famous to our customers. You can find our list on [www.babyshark.com/best-sales](http://www.babyshark.com/best-sales).

Rank	Product	Supplier	Number of sales
1	Maple Syrup	Berry Hill	15.930
2	Mac Book Pro	Apple	10.361
3	Iphone X	Apple	9.284
4	Camera – 6D Mark II	Canon	4.840
5	Ukulele	Yamaha	1.937

Our goal is to help you improve your products and be closer to your customers. Thanks to our rating list, you can easily compare your products with your rival's regarding to the category.

# DIAGRAM



# DATABASE CREATION

We had to create our database to allow us to manipulate it and test our queries. To do so, we had to enter a multiple-lines-query with all the information into *Microsoft SQL Server Management Studio*. We tried to cover our 12 tables according our diagram to perform all of the 12 queries required for the project.

## Main Tables Creation

```
CREATE TABLE ClientAccount (  
  ClientID INT IDENTITY PRIMARY KEY,  
  Username CHAR(25) NOT NULL,  
  Password CHAR(25) NOT NULL,  
  Contract CHAR(20) NOT NULL,  
  Name CHAR(25) NOT NULL,  
  Birthday DATE,  
  Address CHAR (50) NOT NULL,  
  Phone CHAR(20),  
  Mail CHAR (50) NOT NULL,  
  CityID INT NOT NULL REFERENCES City(CityID)  
);
```

Obviously, we have the most important table: Client Account ; for this one, we chose to put the basics information about a client like the username, the password, the mail... The ClientID is unique so we set it as a PRIMARY KEY and we have the CityID which belong to another table City for the address of the customer which is here a **Foreign Key** here written with CityID INT NOT NULL REFERENCES City(CityID)

---

```
CREATE TABLE WithdrawalPoint(  
  WithdrawalID INT IDENTITY PRIMARY KEY,  
  Address CHAR(50) NOT NULL,  
  Phone CHAR(20) NOT NULL,  
  CityID INT NOT NULL REFERENCES City(CityID)  
);
```

Same here with the WithdrawalPoint, which has a unique Id so a PRIMARY KEY, and is using the CityID too as a **Foreign Key**.

---

```
CREATE TABLE ProductInvoice(  
  InvoiceID INT FOREIGN KEY REFERENCES  
    Invoice(InvoiceID),  
  ProductID INT FOREIGN KEY REFERENCES  
    Product(ProductID),  
  PRIMARY KEY (InvoiceID, ProductID),  
  Quantity INT NOT NULL,  
  Price MONEY NOT NULL  
);
```

Here we're facing a tricky one, the ProductInvoice table is composed of two foreign keys which create a composite primary key, and we're defining it like this.

---

```
CREATE TABLE Invoice(  
  InvoiceID INT IDENTITY PRIMARY KEY,  
  Date DATE NOT NULL,  
  ClientId INT NOT NULL REFERENCES  
    ClientAccount(ClientID),  
  PaymentID INT NOT NULL REFERENCES Payment(PaymentId)  
);
```

And we have here another interesting one, here the Invoice table which is composed of its InvoiceID which is again a PRIMARY KEY but also two foreign keys, the ClientID from the ClientAccount table and the PaymentId from the Payment table. Because obviously we need those on an invoice.

## Insertion of all the Data

```
INSERT INTO Product (Name, Description, Price, SalesNumber)
VALUES ('Iphone X', 'Latest phone, you must have it !', 999.99, 31704),
      ('Canon 6V Mark', 'The best camera so far !', 530.99, 7493),
      ('Mc Book Pro', 'Just try it.', 1320.99, 980),
      ('Samsung Xcover', 'Unbreakable.', 135.99, 41),
      ('Asus VivoBook S', '14" FHD (AMD Quad Core R5-3500U, RAM 8Go, 256Go SSD,
        Windows 10)', 589.99, 7531),
      ('Xiaomi Mi A2 Dual SIM', '4GB/64GB Smartphone International Version -
        Black', 163.65, 413),
      ('Acer Chromebook', '11, 6" HD Blanc (Intel Celeron, 4 Go de RAM, 32 Go
        eMMC, Intel HD Graphics, Chrome OS)', 269.99, 41),
      ('G502 Proteus Spectrum', 'Lets play seriously.', 49.99, 3456),
      ('Nike Team Club 19 Hoodie', 'Be a man.', 77.50, 1620),
      ('Philips S5400/06', 'Ask for perfection.', 70.99, 4461),
      ('Nintendo Switch', 'Family, friends, and games.', 292.49, 46237),
      ('Nintendo Classic Mini', 'Like old times.', 128.97, 4689),
      ('Monopoly', 'Its time to destroy families.', 21.99, 23456),
      ('Canon PIXMA TS5050 - Noir', 'Print your best memories.', 69.73, 8765),
      ('Adidas Falcon W', 'Run faster.', 120, 7932);
```

Above, we can see the query to add the Product information like the name, a description, the price... And the result of this query is displayed like this in SQL.

	ProductId	Name	Description	Price	SalesNumber
1	1	Iphone X	Latest phone, you must have it !	999.99	31704
2	2	Canon 6V Mark	The best camera so far !	530.99	7493
3	3	Mc Book Pro	Just try it.	1320.99	980
4	4	Samsung Xcover	Unbreakable.	135.99	41
5	5	Asus VivoBook S	14" FHD (AMD Quad Core R5-3500U, RAM 8Go, 256Go ...	589.99	7531
6	6	Xiaomi Mi A2 Dual SIM	4GB/64GB Smartphone International Version - Black	163.65	413
7	7	Acer Chromebook	11, 6" HD Blanc (Intel Celeron, 4 Go de RAM, 32 Go eMM...	269.99	41
8	8	G502 Proteus Spectrum	Lets play seriously.	49.99	3456
9	9	Nike Team Club 19 Hoodie	Be a man.	77.50	1620
10	10	Philips S5400/06	Ask for perfection.	70.99	4461
11	11	Nintendo Switch	Family, friends, and games.	292.49	46237
12	12	Nintendo Classic Mini	Like old times.	128.97	4689
13	13	Monopoly	Its time to destroy families.	21.99	23456
14	14	Canon PIXMA TS5050 - Noir	Print your best memories.	69.73	8765
15	15	Adidas Falcon W	Run faster.	120.00	7932



# QUERIES LIST

We decided to do twelve queries according to our project, a powerful online shop, so we have this list of queries:

1. Display the Top 5 sales of the Online Shop
2. Change the quantity of a product at the Supplier
3. The number of States in a Country
4. Add a Client Account
5. Delete a Withdrawal Point
6. Change the contract (status) of a client
7. Change the Contact information of a Supplier
8. Count the number of withdrawal points in a country (Canada)
9. Delete the column “Sales number” in the table ProductDelete
10. Change the Password of a Client Account
11. Apply a discount to a product
12. Display the last invoices

