EXIM

Export Import Goods

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Goal of EXIM

➔*Calculate taxes for product which can export to country.*

➔*Displaying list of products.*

➔*Displaying the shipping details.*

➔*Adding new customer details and product Details.*

➔*Checking the status of shipment.*

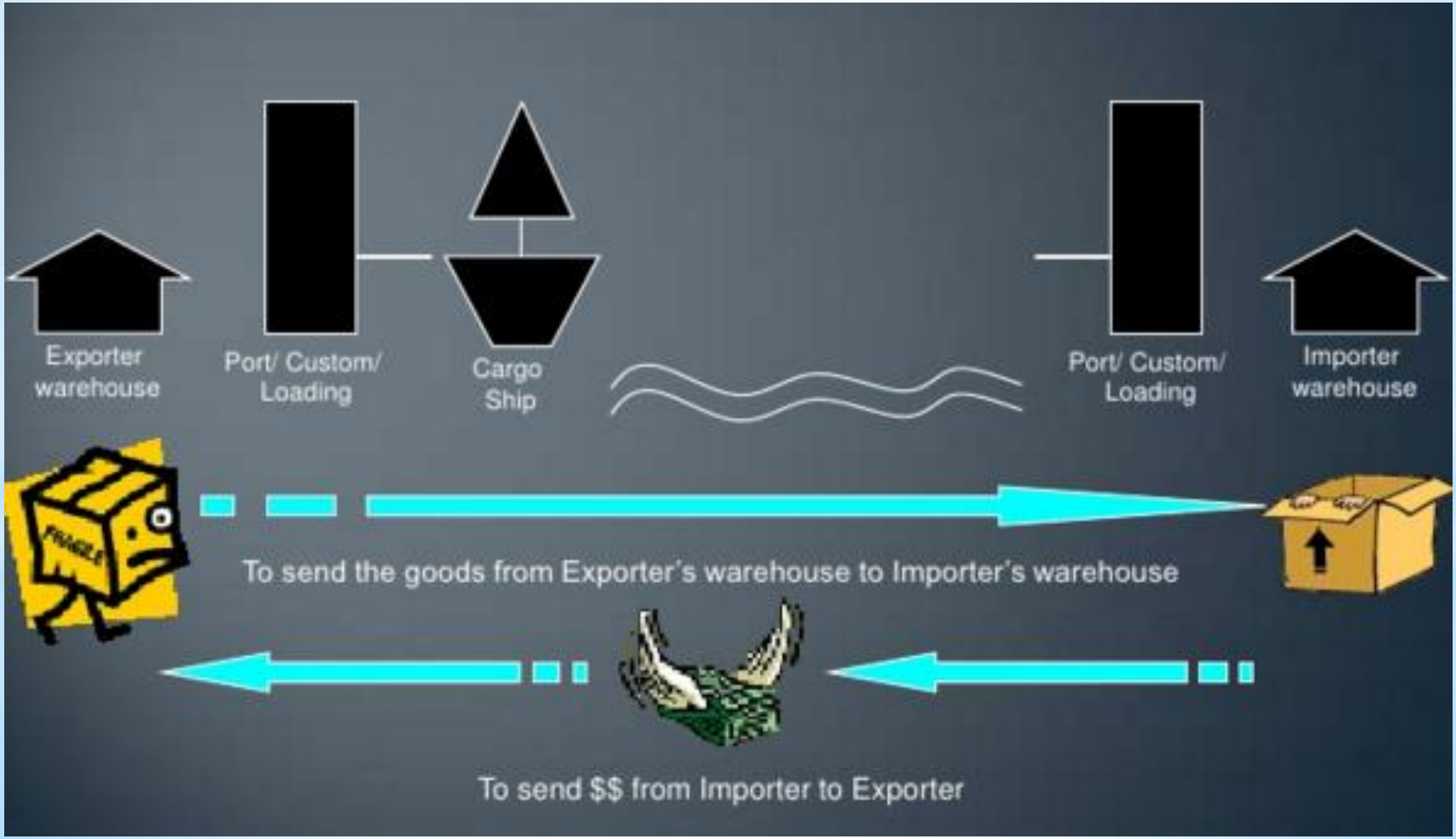
➔*User can print the invoice.*

➔*Saving the items which are export/import*

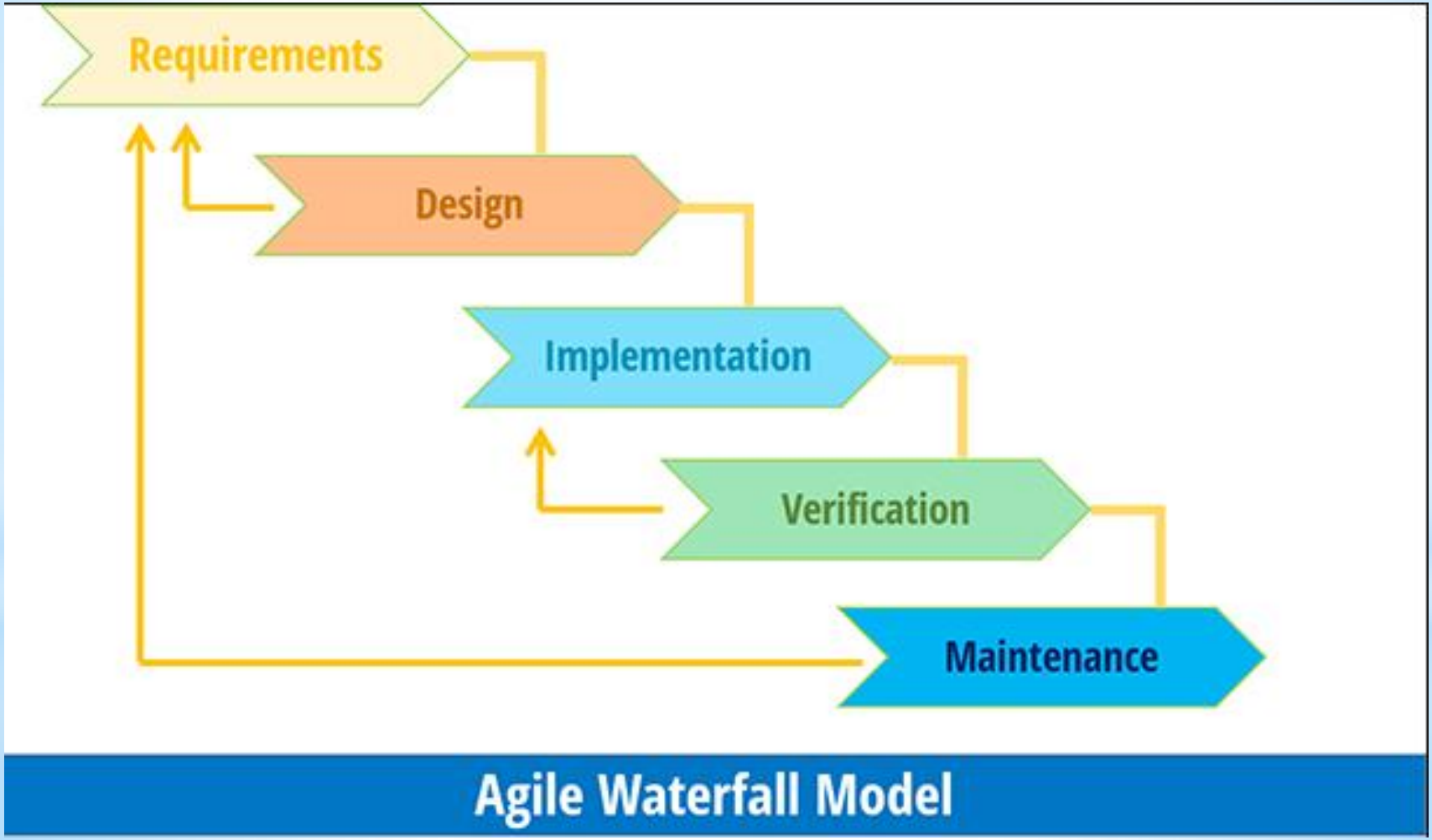
Key Takeaways

- Export/Import Trade simplified
- SDLC – Agile Model
- Use Case Diagram
- Technology
- Challenges in EXIM
- Screens of EXIM
- Future Enhancement in EXIM

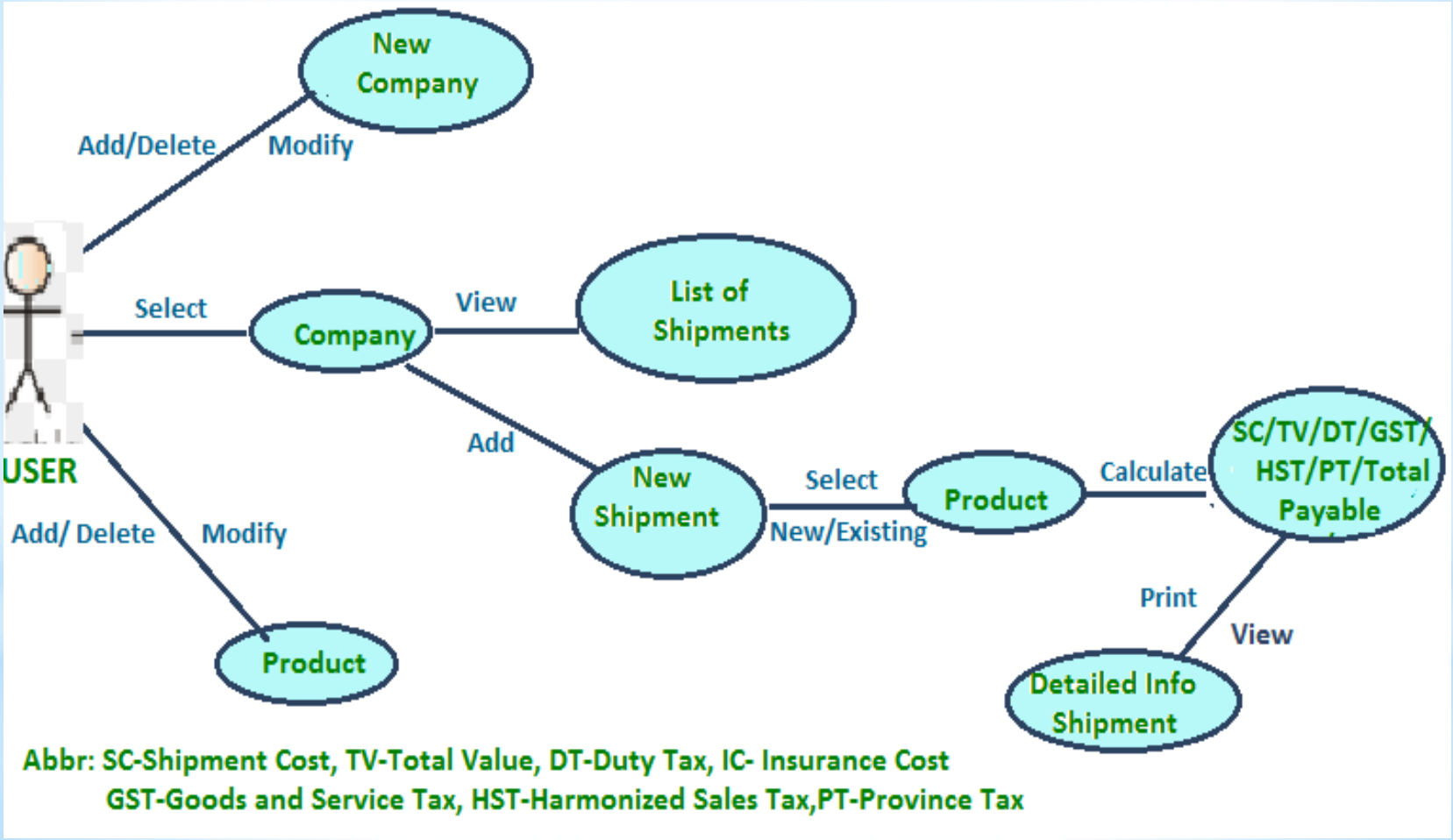
Export/Import Trade simplified



SDLC – Agile Model



Use Case Diagram



Technology

- EXIM Application divided into two segments front end and back end.
- Front end is developed using

  WPF,

  C#.NET

  Backend is developed using

  Microsoft SQL Server.
- Main Tools used –

  ListView, DataGrid,

  DataSet, DataTable,

  Handling views using GridSpilter etc.

Technology

- Covered MVC model by creating separate classes like *ADO.cs and Database.cs*.

- Used *Enum datatype*.

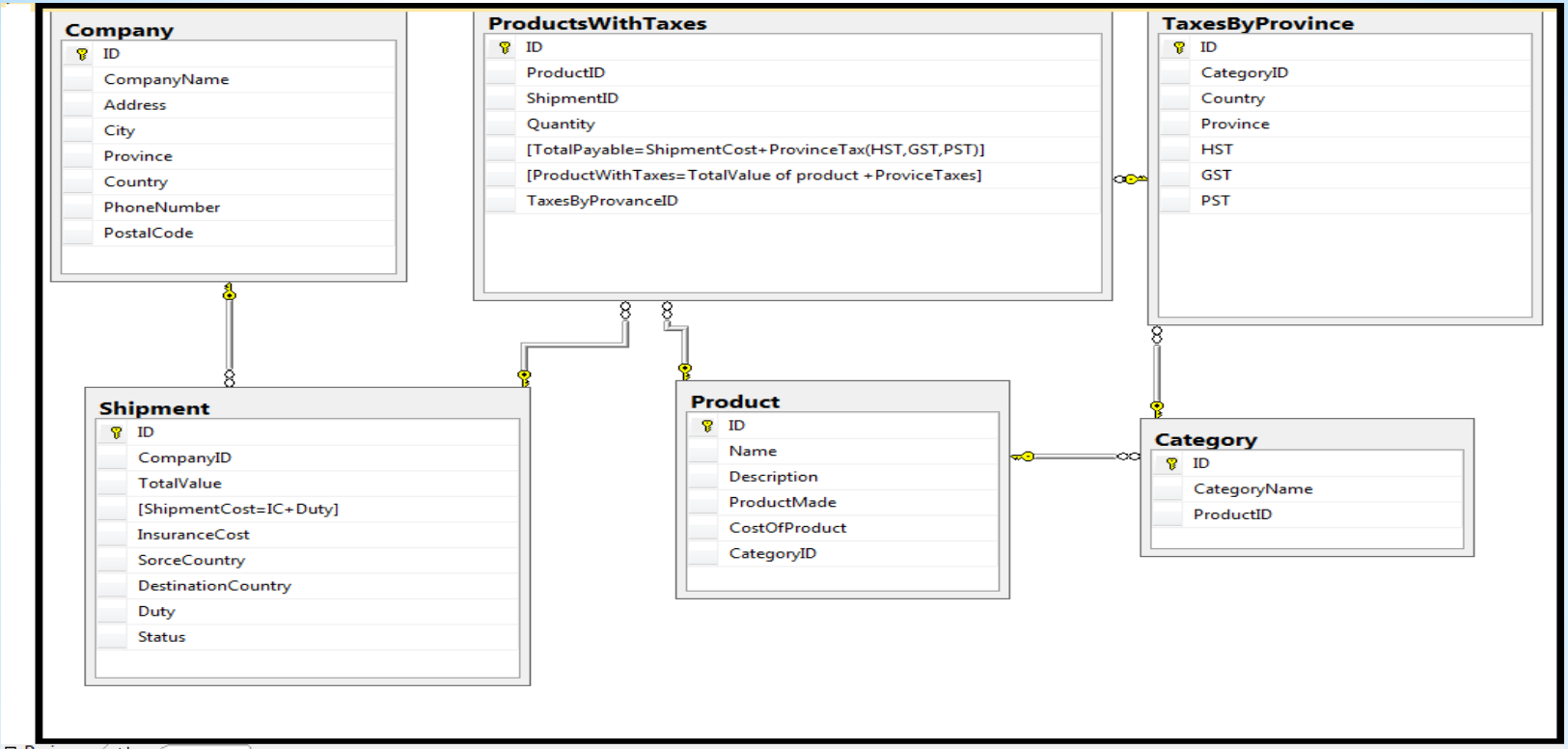
- Database:-

  Azure,

  Stored Procedure,

  Extracting records from database by joining multiple table.

Database



Design | T-SQL

```
CREATE TABLE [dbo].[Shipment] (
    [ID]                INT           IDENTITY (1, 1) NOT NULL,
    [CompanyID]         INT           NOT NULL,
    [TotalValue]        MONEY         NULL,
    [ShipmentCost]      MONEY         NULL,
    [InsuranceCost]     MONEY         NULL,
    [SorceCountry]      VARCHAR (50)  NULL,
    [DestinationCountry] VARCHAR (50)  NULL,
    [Status]            NVARCHAR (20) CONSTRAINT [DF_Shipment_Status] DEFAULT ('New') NULL,
    [Duty]              MONEY         NULL,
    CONSTRAINT [PK_Shipment] PRIMARY KEY CLUSTERED ([ID] ASC),
    CONSTRAINT [FK_Shipment_Company] FOREIGN KEY ([CompanyID]) REFERENCES [dbo].[Company] ([ID]),
    CONSTRAINT [CK_Shipment_Status] CHECK ([Status]='Denied' OR [Status]='Cleared' OR [Status]='New')
);
```

Challenges

- Connect with database.
- Join Multiple tables and display selected column to datagrid using same class.
- Learn about dataset and datatable.
- Affecting many tables on single event and using the last inserted ID on table and use that ID to save record on another table.
- Resolve confliction of code in bit bucket.
- Used new tools of WPF like datagrid and grid splitter.
- Used different classes to make data separate from View.
- Created new screen on short interval of time.

Useful Code

➢Join Multiple tables and display selected column to datagrid using same class.

```
7 references | sarikabagga, 4 days ago | 1 author, 4 changes
public DataSet GetAllProductWithCategories()
{
    DataSet dsProduct = new DataSet();
    using (SqlCommand com = new SqlCommand("sp_ProductWithCategory", con))
    {
        com.CommandType = CommandType.StoredProcedure;
        SqlDataAdapter da = new SqlDataAdapter(com);
        da.Fill(dsProduct, "Record1");
    }
    return dsProduct;
}

dataGridProduct.ItemsSource = db.GetAllProductWithCategories().Tables["Record1"].DefaultView;
```

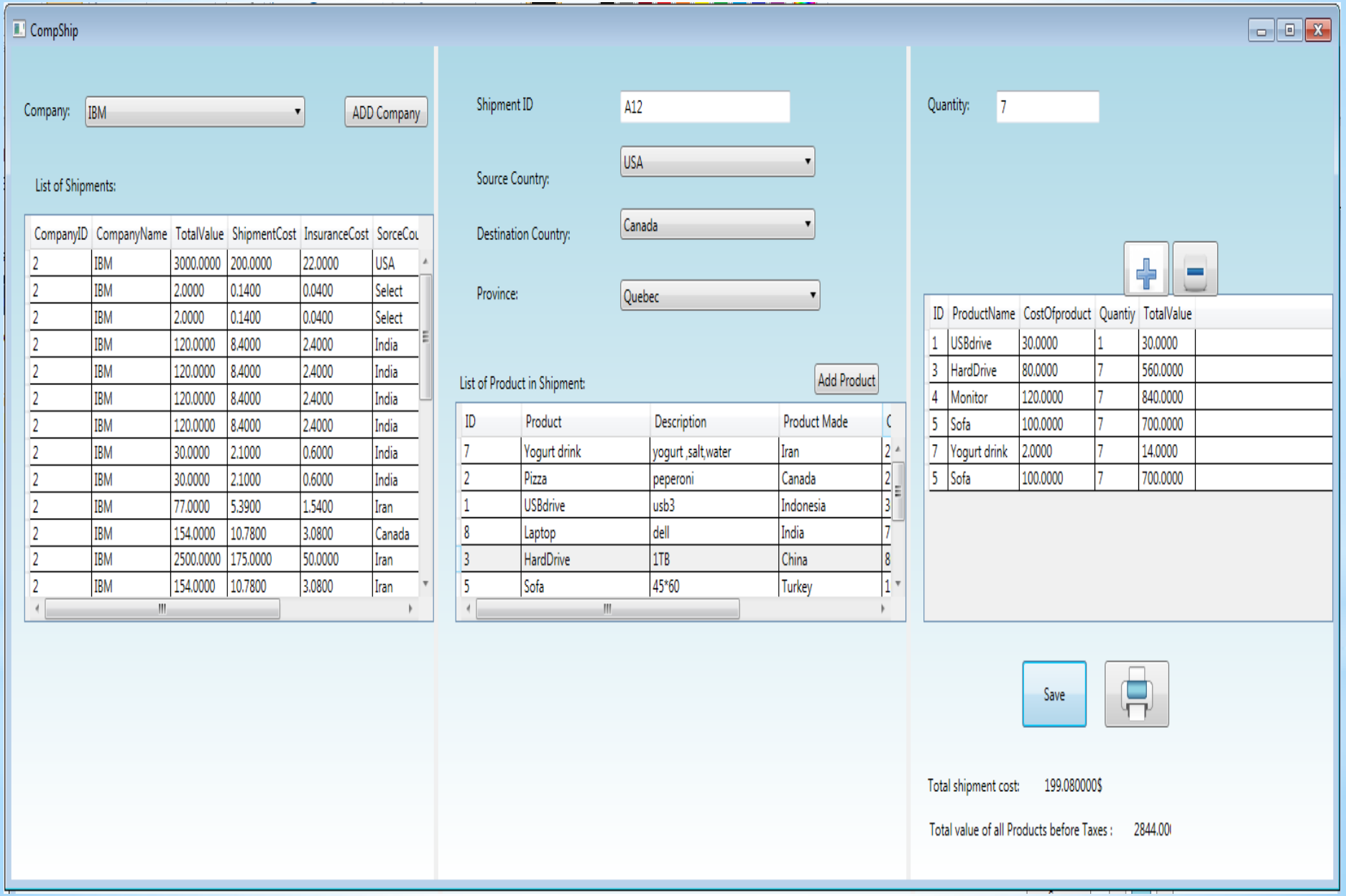
Useful Code

- Affecting many tables on single event and using the last inserted ID on table and use that ID to save record on another table.

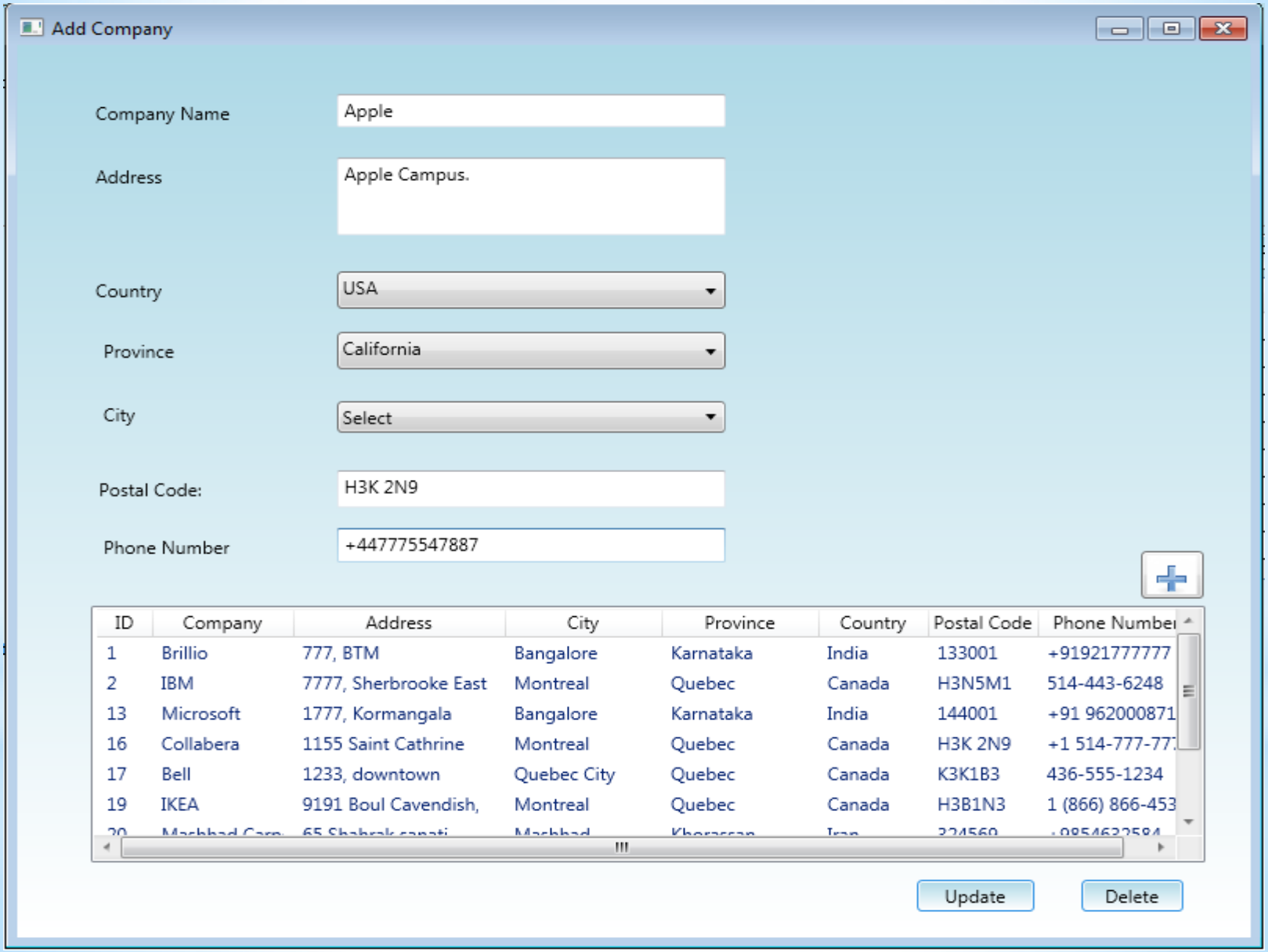
```
public int ShipmentID;
2 references | sarikabagga, 4 days ago | 1 author, 1 change
public void AddShipment(Model.Shipment shipment)
{

    using (SqlCommand com = new SqlCommand("INSERT INTO Shipment (CompanyId,"+
        "TotalValue, ShipmentCost, Insurancecost, Sorcecountry,"+
        "Destinationcountry, Duty,Status) " +
          "VALUES (@CompanyId, @TotalValue, @ShipmentCost, @Insurancecost,"+
        "@Sourcecountry, @Destinationcountry, @Duty,@Status); " +
          "SELECT SCOPE_IDENTITY();", con))
    {
        string Status= shipment.Status.ToString();
        com.Parameters.AddWithValue("@CompanyId", shipment.CompanyId);
        com.Parameters.AddWithValue("@TotalValue", shipment.TotalValue);
        com.Parameters.AddWithValue("@ShipmentCost", shipment.ShipmentCost);
        com.Parameters.AddWithValue("@Insurancecost", shipment.Insurancecost);
        com.Parameters.AddWithValue("@Sourcecountry", shipment.Sourcecountry);
        com.Parameters.AddWithValue("@Destinationcountry", shipment.Destinationcountry);
        com.Parameters.AddWithValue("@Duty", shipment.Duty);
        com.Parameters.AddWithValue("@Status", Status);
        ShipmentID = int.Parse(com.ExecuteScalar().ToString());
    }
```

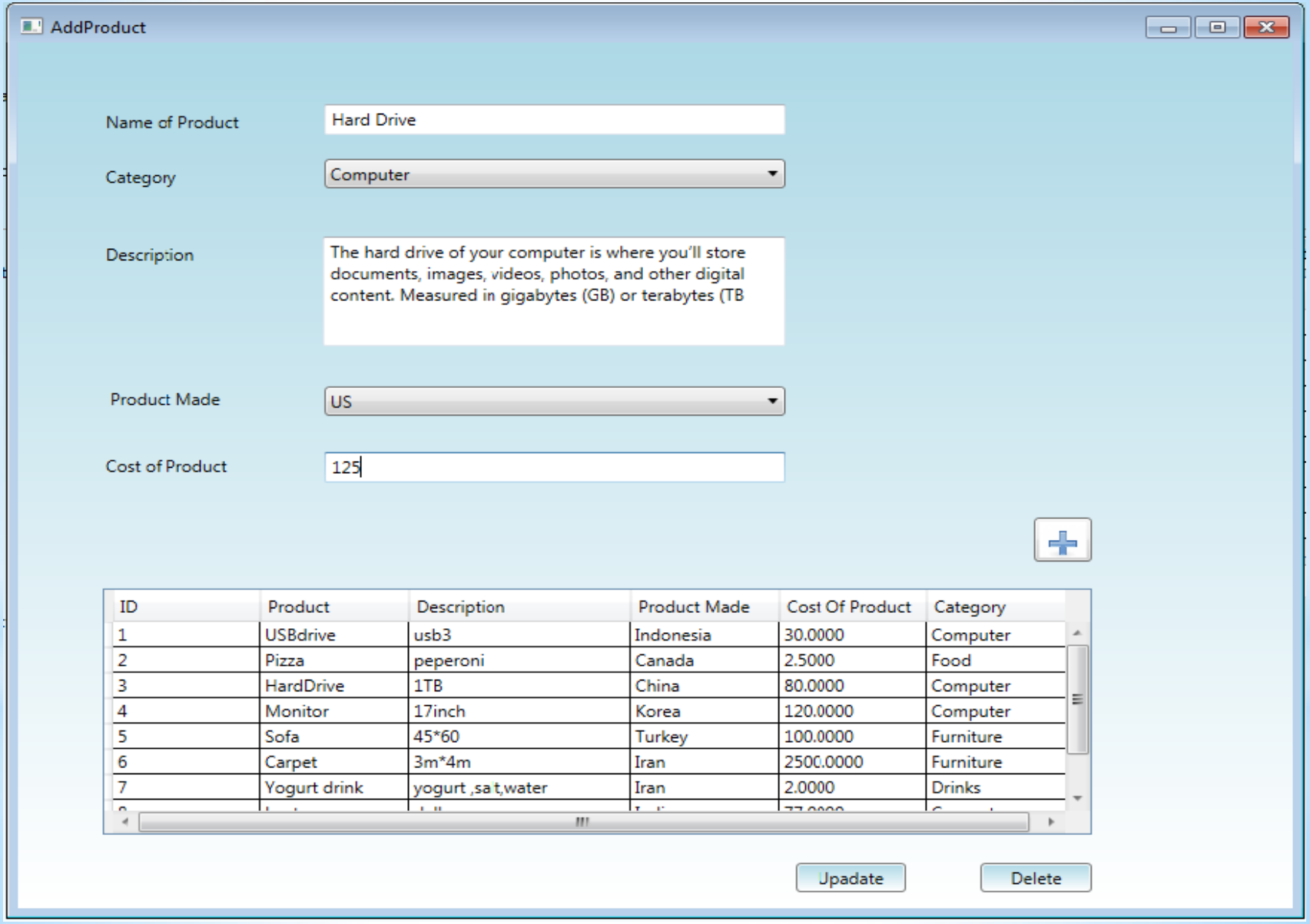
Main Screen


CompShip
Company:
IBM
ADD Company
List of Shipments:
CompanyID CompanyName TotalValue ShipmentCost InsuranceCost SorceCou
2 IBM 3000.0000 200.0000 22.0000 USA
2 IBM 2.0000 0.1400 0.0400 Select
2 IBM 2.0000 0.1400 0.0400 Select
2 IBM 120.0000 8.4000 2.4000 India
2 IBM 120.0000 8.4000 2.4000 India
2 IBM 120.0000 8.4000 2.4000 India
2 IBM 120.0000 8.4000 2.4000 India
2 IBM 30.0000 2.1000 0.6000 India
2 IBM 30.0000 2.1000 0.6000 India
2 IBM 77.0000 5.3900 1.5400 Iran
2 IBM 154.0000 10.7800 3.0800 Canada
2 IBM 2500.0000 175.0000 50.0000 Iran
2 IBM 154.0000 10.7800 3.0800 Iran
Shipment ID
A12
Source Country:
USA
Destination Country:
Canada
Province:
Quebec
List of Product in Shipment:
Add Product
ID Product Description Product Made
7 Yogurt drink yogurt ,salt,water Iran
2 Pizza peperoni Canada
1 USBdrive usb3 Indonesia
8 Laptop dell India
3 HardDrive 1TB China
5 Sofa 45*60 Turkey
Quantity:
7
ID ProductName CostOfproduct Quantiy TotalValue
1 USBdrive 30.0000 1 30.0000
3 HardDrive 80.0000 7 560.0000
4 Monitor 120.0000 7 840.0000
5 Sofa 100.0000 7 700.0000
7 Yogurt drink 2.0000 7 14.0000
5 Sofa 100.0000 7 700.0000
Save
Total shipment cost: 199.080000$
Total value of all Products before Taxes : 2844.00

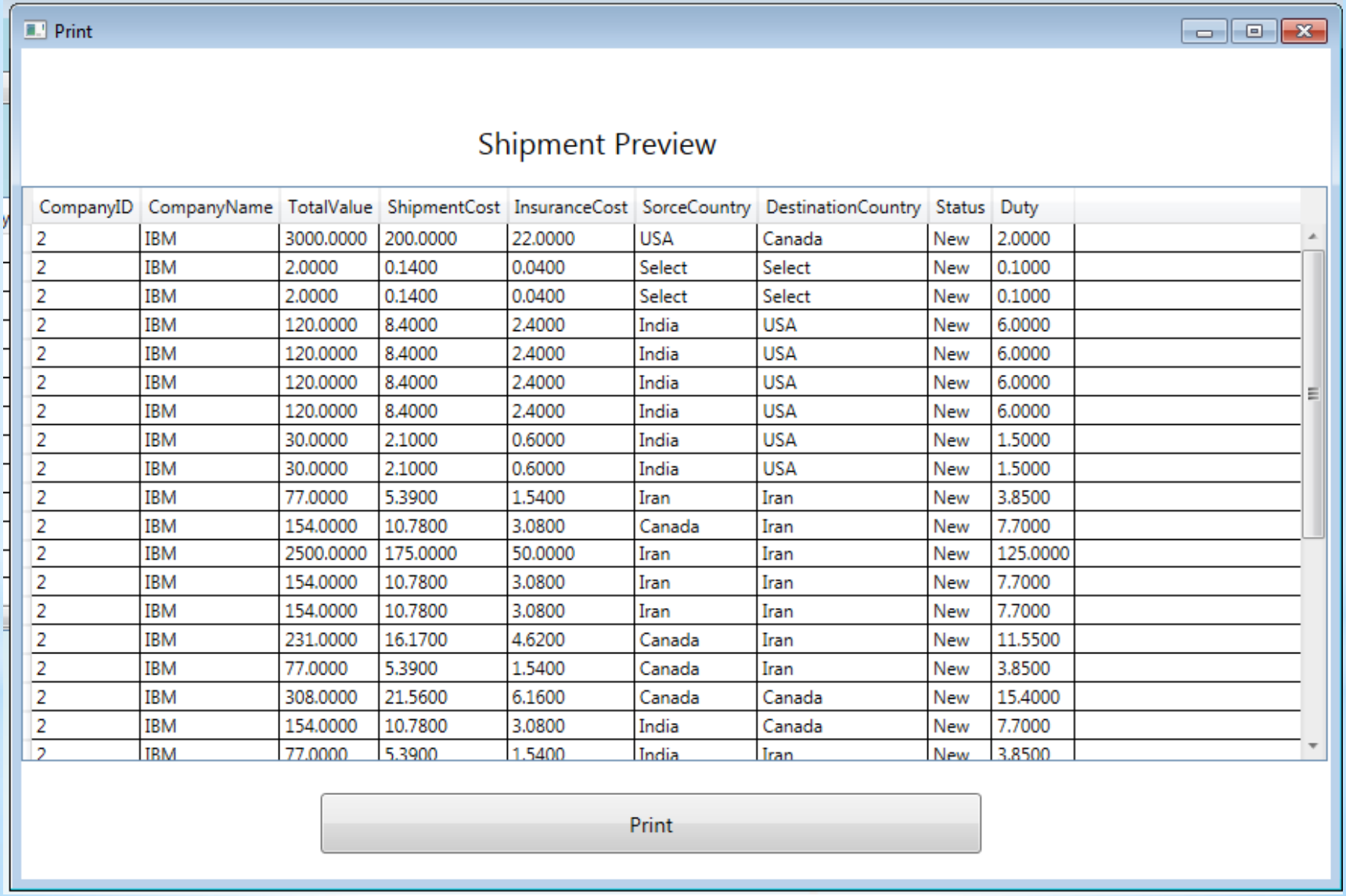
Add Company Screen



Add Product Screen



Print Screen



CompanyID	CompanyName	TotalValue	ShipmentCost	InsuranceCost	SorceCountry	DestinationCountry	Status	Duty
2	IBM	3000.0000	200.0000	22.0000	USA	Canada	New	2.0000
2	IBM	2.0000	0.1400	0.0400	Select	Select	New	0.1000
2	IBM	2.0000	0.1400	0.0400	Select	Select	New	0.1000
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000
2	IBM	30.0000	2.1000	0.6000	India	USA	New	1.5000
2	IBM	30.0000	2.1000	0.6000	India	USA	New	1.5000
2	IBM	77.0000	5.3900	1.5400	Iran	Iran	New	3.8500
2	IBM	154.0000	10.7800	3.0800	Canada	Iran	New	7.7000
2	IBM	2500.0000	175.0000	50.0000	Iran	Iran	New	125.0000
2	IBM	154.0000	10.7800	3.0800	Iran	Iran	New	7.7000
2	IBM	154.0000	10.7800	3.0800	Iran	Iran	New	7.7000
2	IBM	231.0000	16.1700	4.6200	Canada	Iran	New	11.5500
2	IBM	77.0000	5.3900	1.5400	Canada	Iran	New	3.8500
2	IBM	308.0000	21.5600	6.1600	Canada	Canada	New	15.4000
2	IBM	154.0000	10.7800	3.0800	India	Canada	New	7.7000
2	IBM	77.0000	5.3900	1.5400	India	Iran	New	3.8500

Future Enhancements

→ Database: create table for all countries, provinces, cities.

→Search and add more functionalities inside DataGrid

→All screens using entity framework and MVVM.

→Print functionality in shipment screen.

Conclusion

→We got to know how to create windows application from scratch.

→We implemented the code and did validation.

→We have faced challenges, we overcome and learnt lot from that.

→We have planned for the future enhancements in our project.

→We learnt bit bucket tool deeply.

Any Questions?

Thank you!!