

Lab 3

Snapshots of Application's test cases:

Picture 1: Concurrency Exception

The screenshot shows a data entry form titled 'Form1' with a toolbar at the top. The form contains two columns of input fields. The left column includes Product ID (1), Product Name (AlreadyChangedIT), Company Name (Exotic Liquids), Category Name (Beverages), and Quantity Per Unit (10 boxes x 20 bags). The right column includes Unit Price (\$18.00), Units In Stock (39), Units On Order (0), Reorder Level (10), and a Discontinued checkbox. Below these fields is a table with columns OrderID, ProductID, and Discount. A modal dialog titled 'Concurrency Exception' is displayed in the center, with the message 'Another user modified data, table needs to be updated' and an 'OK' button.

OrderID	ProductID	Discount
10285	1	0.2
10294	1	0
10317	1	0
10348	1	0.15
10354	1	0
10370	1	0.15
10406	1	0

Picture 2: No Null Exception: null value in **not null** column

The screenshot shows the same data entry form 'Form1' with a different set of values. Product ID is -1, and the other fields are empty. The 'Discontinued' checkbox is checked. A modal dialog titled 'No NULL Allowed Exception' is displayed in the center, with the message 'Column 'ProductName' does not allow nulls.' and an 'OK' button.

OrderID	ProductID	Discount
*		

Picture 3: Deleting Record Conflict with FOREIGN KEYS (SQL DELETE Exception)

The screenshot shows a form titled 'Form1' with a toolbar at the top. The form contains several input fields for product details: Product ID (2), Product Name (Chang), Company Name (Exotic Liquids), Category Name (Beverages), Quantity Per Unit (24 - 12 oz bottles), Unit Price (\$19.00), Units In Stock (17), Units On Order (40), Reorder Level (25), and a Discontinued checkbox. Below these fields is a table with columns 'OrderID' and 'ProductID'. The table contains several rows, with the first row (10255, 2) highlighted in blue. A modal dialog box titled 'SQL DELETE Error' is displayed in the center, with the message 'Can't Delete a record which has ties to another table' and an 'OK' button.

OrderID	ProductID
10255	2
10258	2
10264	2
10298	2
10327	2
10335	2
10342	2

Picture 4: Inserting negative value into UnitPrice

The screenshot shows the same 'Form1' application. The Product ID is now 80, Product Name is 'a', and Quantity Per Unit is 1. The Unit Price field contains the value '-1'. A modal dialog box titled 'Format Exception' is displayed, with the message 'UnitPrice must be a positive numeric' and an 'OK' button.

OrderID	ProductID	UnitPrice
*		

5: Adding Record

Form1

Product ID: 97 Unit Price: \$18.00

Product Name: NewRecord Units In Stock: 10

Company Name: Exotic Liquids Units On Order: 10

Category Name: Beverages Reorder Level: 10

Quantity Per Unit: 100 Discontinued: ☐

	OrderID	ProductID	UnitPrice	Quantity	Discount
*					

Confirmation from database:

```

1 use Northwind
2 select * from Products where ProductName = 'NewRecord'

```

123 %

Results Messages

	ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	97	NewRecord	1	1	100	18.00	10	10	10	0

6: Delete added Record

```

1 use northwind
2 select * from Products where ProductName = 'NewRecord'

```

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Results Messages

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
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