

```
--  
config:  
  layout: elk  
--  
erDiagram  
  direction TB  
  SUPPLIER {  
    int SupplierID PK ""  
    string SupplierName ""  
    string SupplierCategory ""  
  }  
  
  SUPPLIERDELIVERY {  
    int InvoiceID PK ""  
    int SupplierID FK ""  
    int SupplyItemID FK ""  
    int Quantity ""  
    date ExpectedDelivery ""  
    date ActualDelivery ""  
  }  
  
  SUPPLY_ITEM {  
    int SupplyItemID PK ""  
    string ItemName ""  
    string ItemCategory ""  
  }  
  
  WINE_INVENTORY {  
    int WineInventoryID PK ""  
    int WineID FK ""  
    int QuantityOnHand ""  
  }  
  
  WINE {  
    int WineID PK ""  
    string WineName ""  
    string WineType ""  
    int YearProduced ""  
  }
```

```
DIST {
    int DistID PK ""
    string DistName ""
    string DistPhone ""
    string DistAddress ""
    string DistEmail ""
}

DISTORDER {
    int OrderID PK ""
    int DistID FK ""
    date OrderDate ""
}

ORDERITEM {
    int OrderItemID PK ""
    int OrderID FK ""
    int WineID FK ""
    int Quantity ""
}

SHIPPINGSERVICE {
    int ShipperID ""
    string ShipperName ""
    string ShipperPhone ""
    string ShipperWeb ""
}

SHIPMENT {
    int ShipmentID PK ""
    int OrderID FK ""
    date ShipmentDate ""
    string TrackingNumber ""
    int ShippingService FK ""
}

WINETODIST {
    int WD_ID PK ""
```

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        int WineID FK ""
        int DistributorID FK ""
    }

EMPLOYEE {
    int EmployeeID PK ""
    string FirstName ""
    string LastName ""
    string Role ""
    int DepartmentID FK ""
}

DEPARTMENT {
    int DeptID PK ""
    string DeptName ""
    int ManagerEmployeeID FK ""
}

HOURS {
    int PunchID PK ""
    int EmployeeID FK ""
    date DateWorked ""
    float HoursWorked ""
}

SUPPLIER ||--o{SUPPLIERDELIVERY:"Supplies"
SUPPLY_ITEM||--o{SUPPLIERDELIVERY:"Delivered As"
WINE||--o{WINE_INVENTORY:"Stocked As"
DIST||--o{DISTORDER:"Places"
DISTORDER||--o{ORDERITEM:"Contains"
ORDERITEM||--o{SHIPMENT:"Ships"
WINE||--o{WINETODIST:"Linked"
DIST||--o{WINETODIST:"Linked"
SHIPMENT||--o{SHIPPINGSERVICE:"Shipped By"
DEPARTMENT||--o{EMPLOYEE:"Employs"
EMPLOYEE||--o{HOURS:"Logs"

```