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---
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 ""
}

```

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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"

```