### **Relational Data Dictionary**

### **1. SUPPLIER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SupplierID | VARCHAR2 | Primary Key Format begins with S followed by 3 digits |
| SupplierName | VARCHAR2 | NOT NULL |
| Street | VARCHAR2 |  |
| City | VARCHAR2 |  |
| State | VARCHAR2 |  |
| Country | VARCHAR2 |  |
| PostalCode | VARCHAR2 |  |
| ContactName | VARCHAR2 | NOT NULL |
| ContactDesignation | VARCHAR2 |  |
| FD:SupplierID->SupplierName,Street,City,Country,PostalCode,ContactName,ContactDesignation | | |

### **2. SUPPLIER\_PHONE**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SupplierID | VARCHAR2 | Primary Key  Foreign Key  References SUPPLIER(SupplierID) |
| PhoneNo | VARCHAR2 | Primary Key |
| FD:SupplierID,PhoneNo->SupplierID,PhoneNo | | |

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### **3. SUPPLIER\_EMAIL**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SupplierID | VARCHAR2 | Primary Key  Foreign Key  References SUPPLIER(SupplierID) |
| Email | VARCHAR2 | Primary Key |
| FD:SupplierID,Email->SupplierID,Email | | |

### **4. SUPPLYORDER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SupplyorderID | NUMBER | Primary Key  7 digit number |
| SupplyPrice | DECIMAL |  |
| TotalValue | DECIMAL |  |
| SupOrderDate | DATE |  |
| ItemName | VARCHAR2 |  |
| PaymentInfo | VARCHAR2 |  |
| NoofLineitems | NUMBER |  |
| ExpectedSupDeliveryDate | DATE |  |
| SupplierID | VARCHAR2 | Foreign Key  References SUPPLIER(SupplierID) |
| FD:SupplyorderID->SupplyPrice,TotalValue,SupOrderDate,ItemName,PaymentInfo,NoofLineitems,ExpectedSupDeliveryDate,SupplierID | | |

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### **5. SUPPLYINVENTORY**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SupplyInvID | VARCHAR2 | Primary Key  Format begins with INV followed by 4 digits |
| InventoryName | VARCHAR2 | Not Null |
| UnitsInStock | NUMBER |  |
| Street | VARCHAR2 |  |
| City | VARCHAR2 |  |
| State | VARCHAR2 |  |
| Country | VARCHAR2 |  |
| PostalCode | VARCHAR2 |  |
| FD:SupplyInvID->InventoryName,UnitsInStock,Street,City,State,Country,PostalCode | | |

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### **6. SUPPLYORDERDETAILS**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SupplyOrderID | NUMBER | Primary Key  Foreign Key  References SUPPLYORDER(SupplyOrderID) |
| SupplyInvID | VARCHAR2 | Primary Key  Foreign Key  References SUPPLYINVENTORY(SupplyInvID) |
| LineItemID | NUMBER | Not Null |
| Quantity | NUMBER | Not Null |
| TotalSupOrderValue | DECIMAL |  |
| PricePerUnit | DECIMAL |  |
| FD:SupplyOrderID,SupplyInvID->LineItemID,TotalSupOrderValue,Quantity,PricePerUnit | | |

### **7. USEDBY**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| SuppInvID | VARCHAR2 | Primary Key  Foreign Key  References SUPPLYINVENTORY(SupplyInvID) |
| UnitID | VARCHAR2 | Primary Key  Foreign Key  References MANUFACTURINGUNIT(UnitID) |
| FD:SuppInvID,UnitID->SuppInvID,UnitID | | |

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### **8. MANUFACTURINGUNIT**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| UnitID | VARCHAR2 | Primary Key  Format begins with MF followed by 3 digits |
| UnitName | VARCHAR2 | NOT NULL |
| Location | VARCHAR2 |  |
| FacilitySize | VARCHAR2 |  |
| ProductionCapacity | NUMBER |  |
| Status | VARCHAR2 |  |
| FD:UnitID->UnitName,Location,FacilitySize,ProductionCapacity,Status | | |

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### **9. MANUFACTURES**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| UnitID | VARCHAR2 | Primary Key  Foreign Key  References MANUFACTURINGUNIT(UnitID) |
| ProductID | VARCHAR2 | Primary Key  Foreign Key  References PRODUCT(ProductID) |
| FD:UnitID,ProductID->UnitID,ProductID | | |

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### **10. PRODUCT**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| ProductID | VARCHAR2 | Primary Key  Format begins with P followed by 4 digits |
| ProductName | VARCHAR2 | NOT NULL |
| UnitPrice | DECIMAL |  |
| Description | VARCHAR2 |  |
| Weight | DECIMAL |  |
| subCategoryID | VARCHAR2 | Foreign Key  References SUBCATEGORY(subCategoryID) |
| FD:ProductID->ProductName,UnitPrice,Description,Weight,subCategoryID | | |

### **11. SUBCATEGORY**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| subCategoryID | VARCHAR2 | Primary Key  Format begins with SC followed by 3 digits |
| CategoryID | VARCHAR2 | Foreign Key  References Category(CategoryID) |
| subCategoryName | VARCHAR2 | NOT NULL |
| FD:subCategoryID->CategoryID,subCategoryName | | |

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### **12. CATEGORY**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| CategoryID | VARCHAR2 | Primary Key  Format begins with C followed by 3 digits |
| CategoryName | VARCHAR2 | Not Null |
| Description | VARCHAR2 |  |
| FD:CategoryID->CategoryName,Description | | |

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### **13. WAREHOUSE**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| WarehouseId | VARCHAR2 | Primary Key  Format begins with WH followed by 4 digits |
| UnitsInOrder | NUMBER | Not Null |
| WarehouseName | VARCHAR2 |  |
| Capacity | NUMBER |  |
| Discontinued | CHAR |  |
| Location | VARCHAR2 |  |
| WarehouseWorkerTeamID | VARCHAR2 | Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |
| FD:WarehouseId->UnitsInOrder,WarehouseName,Capacity,Discontinued,Location,WarehouseWorkerTeamID | | |

### **14. WAREHOUSINGDETAILS**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| ProductId | VARCHAR2 | Primary Key  Foreign Key  References PRODUCT(ProductId) |
| WarehouseId | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSE(WarehouseId) |
| ProductWarehouseId | VARCHAR2 | Primary Key  Format begins with PWID followed by 4 digits |
| WhReorderLevel | NUMBER | Not Null |
| FD:ProductId,WarehouseId,ProductWarehouseId->WhReorderLevel | | |

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### **15. SHIPMENT**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| ShipmentID | VARCHAR2 | Primary Key  Format begins with SH followed by 8 digits |
| WarehouseID | VARCHAR2 | Foreign Key  References WAREHOUSE(WarehouseId) |
| CarrierID | VARCHAR2 | Foreign Key  References CARRIER(CarrierID) |
| TrackingNumber | VARCHAR2 |  |
| ShipmentDate | DATE |  |
| ArrivalDate | DATE |  |
| ShipmentStatus | VARCHAR2 |  |
| ShipmentType | VARCHAR2 |  |
| ShipmentWeight | DECIMAL |  |
| FD:ShipmentID->TrackingNumber,ShipmentDate,ArrivalDate,ShipmentStatus,ShipmentType,ShipmentWeight,WarehouseID,CarrierID | | |

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### **16. CARRIER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| CarrierID | VARCHAR2 | Primary Key  Format begins with CR followed by 3 digits |
| CarrierName | VARCHAR2 | Not Null |
| Region | VARCHAR2 |  |
| FD:CarrierID->CarrierName,Region | | |

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### **17. EQUIPMENT**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EquipmentID | VARCHAR2 | Primary Key  Format begins with EQ followed by 3 digits |
| ModelNumber | VARCHAR2 |  |
| EquipmentName | VARCHAR2 | Not Null |
| Manufacturer | VARCHAR2 |  |
| Type | VARCHAR2 |  |
| MaintenanceFreq | VARCHAR2 |  |
| UnitId | VARCHAR2 | Foreign Key  References MANUFACTURINGUNIT(UnitID) |
| FD:EquipmentID->ModelNumber,EquipmentName,Manufacturer,Type,MaintenanceFreq,UnitId | | |

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### **18. MAINTENANCESCHEDULE**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| ScheduleID | VARCHAR2 | Primary Key  Format begins with SCD followed by 4 digits |
| EquipmentID | VARCHAR2 | Primary Key  Foreign Key  References EQUIPMENT(EquipmentID) |
| MaintenanceType | VARCHAR2 | Check (Type IN (“Monthly”, “Weekly”, “Yearly”, “Emergency”)) |
| StartDate | DATE |  |
| EndDate | DATE |  |
| FD:ScheduleID,EquipmentID->MaintenanceType,StartDate,EndDate | | |

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### **19. CUSTOMER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| CustomerID | VARCHAR2 | Primary Key  Format begins with CUST followed by 6 digits |
| CustomerName | VARCHAR2 | Not Null |
| ContactNumber | VARCHAR2 |  |
| EmailID | VARCHAR2 |  |
| CreditLimit | DECIMAL |  |
| ShippingAddress | VARCHAR2 |  |
| PaymentID | VARCHAR2 | Foreign Key  References PAYMENTMENTHOD(PaymentID) |
| FD:CustomerID->CustomerName,ContactNumber,EmailID,CreditLimit,ShippingAddress,PaymentID | | |

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### **20. REVIEWDETAILS**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| ProductID | VARCHAR2 | Primary Key  Foreign Key  References PRODUCT(ProductID) |
| CustomerID | VARCHAR2 | Primary Key  Foreign Key  References CUSTOMER(CustomerID) |
| ReviewNo | VARCHAR2 | Primary Key |
| ReviewText | VARCHAR2 |  |
| ReviewTitle | VARCHAR2 |  |
| Rating | NUMBER |  |
| FD:ProductID,CustomerID,ReviewNo->ReviewText,ReviewTitle,Rating | | |

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### **21. PAYMENTMETHOD**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| PaymentID | VARCHAR2 | Primary Key  Format begins with PY followed by 8 digits |
| Description | VARCHAR2 |  |
| PaymentGateway | VARCHAR2 |  |
| PaymentType | VARCHAR2 | Check (Type IN (“Credit”, “Debit”, “Wallet”, “Cash”)) |
| FD:PaymentID→Description,PaymentGateway,PaymentType | | |

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### **22. PAYMENTCURRENCY**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| PaymentID | VARCHAR2 | Foreign Key  References PAYMENTMETHOD(PaymentID) |
| Currency | VARCHAR2 | Primary Key |
| FD: PaymentID -> Currency | | |

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### **23. ORDERS**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| OrderID | VARCHAR2 | Primary Key  Format begins with OR followed by 8 digits |
| OrderTotalValue | DECIMAL |  |
| ExpectedDeliveryDate | DATE |  |
| OrderDate | DATE |  |
| OrderType | VARCHAR2 |  |
| CustomerID | VARCHAR2 | Foreign Key  References CUSTOMER(CustomerID) |
| FD: OrderID->OrderTotalValue,ExpectedDeliveryDate,OrderDate,OrderType,CustomerID | | |

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### **24. ORDERDETAILS**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| ProductID | VARCHAR2 | Foreign Key  References PRODUCT(ProductID) |
| OrderID | VARCHAR2 | Foreign Key  References ORDER(OrderID) |
| OrderItemID | VARCHAR2 | Primary Key |
| OrderItems | NUMBER | Not Null |
| OrderDate | DATE |  |
| ODTotalValue | DECIMAL |  |
| FD:ProductID,OrderID,OrderItemID->OrderItems, OrderDate, ODTotalValue | | |

### **25. OFFLINEORDER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| OrderID | VARCHAR2 | Primary Key  Foreign Key  References ORDER(OrderID) |
| EmployeeID | VARCHAR2 | Foreign Key  References SALESREPRESENTATIVE(EmployeeID) |
| FD:OrderID,EmployeeID->OrderID,EmployeeID | | |

### **26. ONLINEORDER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| OrderID | VARCHAR2 | Primary Key  Foreign Key  References ORDER(OrderID) |

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### **27. SALESREPRESENTATIVE**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Foreign Key  References EMPLOYEE (EmployeeID) |

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### **28. TERRITORY**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| TerritoryID | VARCHAR2 | Primary Key  Format begins with T followed by 4 digits |
| TerritoryName | VARCHAR2 |  |
| ExpectedRevenue | DECIMAL |  |
| Region | VARCHAR2 |  |
| FD:TerritoryID->TerritoryName,ExpectedRevenue | | |

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### **29. EMPLOYEE**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Format begins with EMP followed by 8 digits |
| Email | VARCHAR2 | Not Null |
| FirstName | VARCHAR2 | Not Null |
| LastName | VARCHAR2 | Not Null |
| DepartmentID | VARCHAR2 | Foreign Key  References DEPARTMENT(DepartmentID) |
| EmployeeType | VARCHAR2 |  |
| FD:EmployeeID->Email,FirstName,LastName,DepartmentID,EmployeeType | | |

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### **30. EMPLOYEEPHONE**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Foreign Key  References EMPLOYEE(EmployeeID) |
| EmpPhone | VARCHAR2 |  |
| FD:EmployeeID,EmpPhone->EmployeeID,EmpPhone | | |

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### **31. DEPARTMENT**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| DepartmentID | VARCHAR2 | Primary Key  Format begins with DEPT followed by 3 digits |
| DepartmentName | VARCHAR2 | Not Null |
| DepartmentHead | VARCHAR2 |  |
| FD:DepartmentID->DepartmentName,DepartmentHead | | |

### **32. WAREHOUSEWORKERS**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |

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### **33. CONSISTS\_PACKER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |

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### **34. CONSISTS\_FORKLIFTOPERATOR**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |

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### **35. CONSISTS\_SHIPPINGCLERK**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |

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### **36. CONSISTS\_SUPERVISOR**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |

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### **37. CONSISTS\_QUALITYCONTROLINSPECTOR**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |

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### **38. CONSISTS\_WAREHOUSEMANAGER**

| **Schema Construct** | **Data Type** | **Constraint** |
| --- | --- | --- |
| EmployeeID | VARCHAR2 | Primary Key  Foreign Key  References EMPLOYEE(EmployeeID) |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Foreign Key  References WAREHOUSEWORKERTEAM(WarehouseWorkerTeamID) |

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### **39. WAREHOUSEWORKERTEAM**

| Schema Construct | Data Type | Constraint |
| --- | --- | --- |
| WarehouseWorkerTeamID | VARCHAR2 | Primary Key  Format begins with WT followed by 3 digits |
| WarehouseWorkerTeamName | VARCHAR2 | Not Null |