

## WaterYouHaving Database Summary

This database is designed to manage and organize information for *Water You Having*, a nonalcoholic bar that specializes in infused water beverages. The database structure is composed of seven tables, each serving a specific use, and a number of functions and stored procedures used to manipulate the data.

### Database Structure and Tables

- Employee Table: Stores data about employees, including personal details (like name and contact info), employment details (such as position and hire date), and hierarchical information (like their manager).
- Position Table: Contains information about different job positions within the company, including title, salary, and whether the position is eligible for tips.
- Customer Table: Holds data about customers, including names, contact information, and loyalty points.
- Supplier Table: Manages supplier information, including company name, contact details, and address.
- Product Table: Keeps track of products, including names, descriptions, pricing, and stock levels.
- Orders Table: Records details of customer orders, such as the ordering customer, the handling employee, total amounts, and payment methods.
- LineItem Table: Used for storing individual items within an order, detailing the product, quantity, and total price for that item.

### Views

The database includes one view, EmployeeDetails, which can be used to retrieve employee data. It joins the Employee and Position tables to show both personal data (name, email address) and position information (title, salary).

### Stored Procedures

The database contains the following stored procedures:

- GetLoyaltyInfo: Used to retrieve a customer's loyalty information (name, contact, loyalty points) based on their customer ID.
- GetProductInfo: Used to retrieve product information (name, stock, supplier) based on the product ID.
- AddNewEmployee: Used to add a new employee to the database after hire. This procedure inserts new data into the Employee table.
- UpdateSupplierInfo: Used to update information about a supplier such as a change in address or contact person.
- DeleteProduct: Used to delete a product from the Product table. This should be used sparingly because the data is historically important and its deletion could create referential integrity issues. Instead, it is recommended to update the Product.Status attribute to "Discontinued" or "Backordered."

## **Functions**

The database also contains the following functions:

- CalculateEmployeeSalesbyRange: Used to calculate the total sales an employee has made within a given range of time based on their employee ID.
- GetOrderDetails: Used to retrieve the details (line items) of an order based on the order ID.