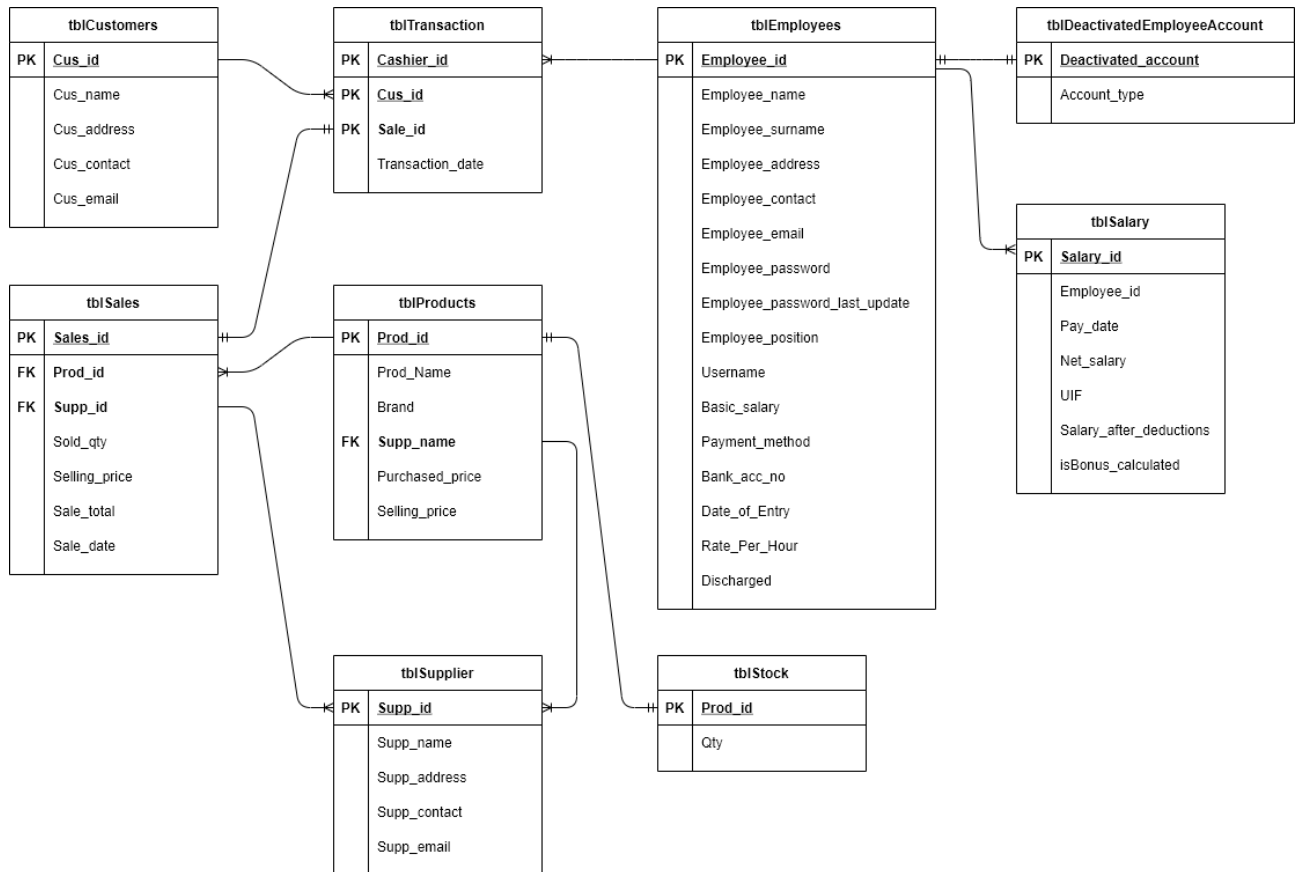


# Database Entity Relationship Diagram



# Database Entities

- **Customer table** – this table stores details of Reyavaya Technologies customers

```
1 CREATE TABLE `tblcustomers` (  
2   `Cus_id` int(11) NOT NULL AUTO_INCREMENT,  
3   `Cus_Name` varchar(55) NOT NULL,  
4   `Cus_address` varchar(255) NOT NULL,  
5   `Cus_contact` varchar(10) NOT NULL,  
6   `Cus_email` varchar(55) NOT NULL,  
7   PRIMARY KEY (`Cus_id`),  
8   UNIQUE KEY `Cus_Name` (`Cus_Name`),  
9   UNIQUE KEY `Cus_address` (`Cus_address`)  
10  ) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Employee table** - this table stores employee details of the store

```
1 CREATE TABLE `tblemployees` (  
2   `Employee_id` smallint(6) NOT NULL AUTO_INCREMENT,  
3   `Employee_name` varchar(55) NOT NULL,  
4   `Employee_address` varchar(255) NOT NULL,  
5   `Employee_contact` varchar(10) NOT NULL,  
6   `Employee_email` varchar(55) NOT NULL,  
7   `Employee_password` varchar(55) NOT NULL,  
8   `Employee_password_last_update` datetime NOT NULL,  
9   `Employee_position` varchar(45) NOT NULL,  
10  `Username` varchar(55) NOT NULL,  
11  `Employee_surname` varchar(255) NOT NULL,  
12  `Basic_salary` decimal(10,0) NOT NULL,  
13  `Payment_method` varchar(10) NOT NULL,  
14  `Bank_acc_no` varchar(55) NOT NULL,  
15  `Date_of_Entry` date NOT NULL,  
16  `Rate_Per_Hour` decimal(10,0) NOT NULL,  
17  `Discharged` tinyint(4) NOT NULL,  
18  PRIMARY KEY (`Employee_id`)  
19  ) ENGINE=InnoDB AUTO_INCREMENT=45 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Deactivated Employee Account** – this table stores references to deactivated employees accounts.

```
1 CREATE TABLE `tbldeactivatedemployeeaccount` (  
2   `Deactivated_account` smallint(6) NOT NULL,  
3   `Account_type` varchar(45) NOT NULL,  
4   PRIMARY KEY (`Deactivated_account`),  
5   CONSTRAINT `fk_DeactivatedEmployee` FOREIGN KEY (`Deactivated_account`) REFERENCES `tblemployees` (`employee_id`  
6 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Salary** – this table stores salary payments of employees. A record is kept each time an employee is paid.

```
1 CREATE TABLE `tblsalary` (  
2   `Salary_id` int(11) NOT NULL AUTO_INCREMENT,  
3   `Employee_id` smallint(6) NOT NULL,  
4   `Pay_date` date NOT NULL,  
5   `Net_salary` decimal(10,0) NOT NULL,  
6   `UIF` decimal(10,0) NOT NULL,  
7   `Salary_after_deductions` decimal(10,0) NOT NULL,  
8   `isBonus_calculated` tinyint(4) NOT NULL,  
9   PRIMARY KEY (`Salary_id`),  
10  KEY `fk_EmployeePayment` (`Employee_id`),  
11  CONSTRAINT `fk_EmployeePayment` FOREIGN KEY (`Employee_id`) REFERENCES `tblemployees` (`employee_id`)  
12 ) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Supplier** – this table stores details of products suppliers.

```
1 CREATE TABLE `tblsupplier` (  
2   `Supp_id` int(11) NOT NULL AUTO_INCREMENT,  
3   `Supp_name` varchar(55) NOT NULL,  
4   `Supp_address` varchar(255) NOT NULL,  
5   `Supp_contact` varchar(10) NOT NULL,  
6   `Supp_email` varchar(55) NOT NULL,  
7   PRIMARY KEY (`Supp_id`),  
8   UNIQUE KEY `Supp_name` (`Supp_name`)  
9 ) ENGINE=InnoDB AUTO_INCREMENT=22 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Products** – this table stores details of all the products sold in the store.

```
1 CREATE TABLE `tblproducts` (  
2   `Prod_id` int(11) NOT NULL AUTO_INCREMENT,  
3   `Prod_Name` varchar(55) NOT NULL,  
4   `Brand` varchar(255) NOT NULL,  
5   `Supp_name` int(11) NOT NULL,  
6   `Purchased_price` decimal(10,0) NOT NULL,  
7   `Selling_price` decimal(10,0) NOT NULL,  
8   PRIMARY KEY (`Prod_id`),  
9   UNIQUE KEY `Prod_Name` (`Prod_Name`),  
10  UNIQUE KEY `Brand` (`Brand`),  
11  KEY `fk_Product_supplied_by` (`Supp_name`),  
12  CONSTRAINT `fk_Product_supplied_by` FOREIGN KEY (`Supp_name`) REFERENCES `tblsupplier` (`supp_id`)  
13 ) ENGINE=InnoDB AUTO_INCREMENT=40 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Stock** – this table stores available product stock..

```
1 CREATE TABLE `tblstock` (  
2   `Prod_id` int(11) NOT NULL,  
3   `Qty` smallint(6) NOT NULL,  
4   PRIMARY KEY (`Prod_id`),  
5   CONSTRAINT `fk_Product_stock` FOREIGN KEY (`Prod_id`) REFERENCES `tblproducts` (`prod_id`)  
6 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Sales** – this table stores product sales. This table's data is generated from the system.

```
1 CREATE TABLE `tblsales` (  
2   `Sale_id` int(11) NOT NULL,  
3   `Prod_id` int(11) NOT NULL,  
4   `Supp_id` int(11) NOT NULL,  
5   `Sold_qty` smallint(6) NOT NULL,  
6   `Selling_price` decimal(10,0) NOT NULL,  
7   `Sale_Total` decimal(10,0) NOT NULL,  
8   `Sale_Date` datetime NOT NULL,  
9   PRIMARY KEY (`Sale_id`),  
10  KEY `fk_SoldProduct` (`Prod_id`),  
11  KEY `fk_SoldProductSupplier` (`Supp_id`),  
12  CONSTRAINT `fk_SoldProduct` FOREIGN KEY (`Prod_id`) REFERENCES `tblproducts` (`prod_id`),  
13  CONSTRAINT `fk_SoldProductSupplier` FOREIGN KEY (`Supp_id`) REFERENCES `tblsupplier` (`supp_id`)  
14 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

- **Transaction** – this table stores a record of each transaction made in the system.

```
1 CREATE TABLE `tbltransaction` (  
2   `Cashier_id` smallint(6) NOT NULL,  
3   `Cus_id` int(11) NOT NULL,  
4   `Sale_id` int(11) NOT NULL,  
5   `Transaction_date` date NOT NULL,  
6   PRIMARY KEY (`Cashier_id`, `Cus_id`, `Sale_id`),  
7   KEY `fk_Transacting_customer` (`Cus_id`),  
8   KEY `fk_Transaction_sale_idx` (`Sale_id`),  
9   CONSTRAINT `fk_Handled_by_cashier` FOREIGN KEY (`Cashier_id`) REFERENCES `tblemployees` (`Employee_id`),  
10  CONSTRAINT `fk_Transacting_customer` FOREIGN KEY (`Cus_id`) REFERENCES `tblcustomers` (`cus_id`),  
11  CONSTRAINT `fk_Transaction_sale` FOREIGN KEY (`Sale_id`) REFERENCES `tblsales` (`sale_id`)  
12 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```