Database Schema

# Accounts Table

CREATE TABLE `accounts` (

`accountNo` int NOT NULL AUTO\_INCREMENT,

`balance` decimal(13,2) DEFAULT NULL,

`accountType` char(8) DEFAULT NULL,

`custID` smallint DEFAULT NULL,

PRIMARY KEY (`accountNo`),

KEY `fk\_accounts` (`custID`),

CONSTRAINT `fk\_accounts` FOREIGN KEY (`custID`) REFERENCES `customers` (`custID`)

) ENGINE=InnoDB AUTO\_INCREMENT=1001 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

# Credentials Table

CREATE TABLE `credentials` (

`username` varchar(15) NOT NULL,

`password` varchar(15) NOT NULL,

`custID` smallint DEFAULT NULL,

PRIMARY KEY (`username`),

KEY `FK\_credentials` (`custID`),

CONSTRAINT `FK\_credentials` FOREIGN KEY (`custID`) REFERENCES `customers` (`custID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

# Customers Table

CREATE TABLE `customers` (

`custID` smallint NOT NULL,

`prefix` char(3) DEFAULT NULL,

`forename` varchar(15) DEFAULT NULL,

`surname` varchar(15) DEFAULT NULL,

`gender` char(6) DEFAULT NULL,

`dob` text,

PRIMARY KEY (`custID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

# Payee Table

CREATE TABLE `payee` (

`payeeID` int NOT NULL,

`payeeName` varchar(15) DEFAULT NULL,

`payeeAccNo` smallint DEFAULT NULL,

`custAccNo` smallint DEFAULT NULL,

PRIMARY KEY (`payeeID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

# Transactions Table

CREATE TABLE `transactions` (

`tnxID` int NOT NULL,

`amount` decimal(13,2) DEFAULT NULL,

`tnxType` char(7) DEFAULT NULL,

`custAccId` smallint DEFAULT NULL,

`payeeID` int DEFAULT NULL,

PRIMARY KEY (`tnxID`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;