Database Tables

```
Table 01 - user
CREATE TABLE 'bank'.'user' (
 `user_id` INT NOT NULL,
 `user_name` VARCHAR(100) NOT NULL,
 `paw_salt` VARCHAR(100) NOT NULL,
 `paw_hash` VARCHAR(100) NOT NULL,
PRIMARY KEY (`user_id`));
Table 02 - session
CREATE TABLE `bank`.`session` (
`session_id` INT NOT NULL,
`user_id` INT NOT NULL,
`logout_time` DATETIME NOT NULL,
PRIMARY KEY (`session_id`),
FOREIGN KEY ('user_id') REFERENCES 'bank'.'user' ('user_id');
Table 03 - roles
CREATE TABLE 'bank'.'roles' (
`role_id` INT NOT NULL,
`role_name` VARCHAR(100) NOT NULL,
PRIMARY KEY (`role_id`));
```

Table 04 - user_role

```
CREATE TABLE `bank`.`user_role` (
`user_role_id` INT NOT NULL,
`user_id` INT NOT NULL,
`role_id` INT NOT NULL,
PRIMARY KEY (`user_role_id`),
FOREIGN KEY ('user_id') REFERENCES 'bank'.'user' ('user_id'),
FOREIGN KEY (`role_id`) REFERENCES `bank`.`roles` (`role_id`);
Table 05 - permission
CREATE TABLE 'bank'.'permission' (
`permission_id` INT NOT NULL,
`permission_name` VARCHAR(100) NOT NULL,
PRIMARY KEY (`permission_id`));
Table 06 - role_permission
CREATE TABLE `bank`.`role_permission` (
`role_permission_id` INT NOT NULL,
`role_id` INT NOT NULL,
`permission_id` INT NOT NULL,
PRIMARY KEY ('role_permission_id'),
FOREIGN KEY ('role_id') REFERENCES 'bank'. roles' ('role_id'),
FOREIGN KEY ('permission_id') REFERENCES 'bank'.'permission'
(`permission_id`);
```

```
Table 07 - activity_log
```

```
CREATE TABLE `bank`.`activity_log` (
   `activity_log_id` INT NOT NULL,
   `user_id` INT NOT NULL,
   `activity_type_id` INT NOT NULL,
   PRIMARY KEY (`activity_log_id`),

FOREIGN KEY (`user_id`) REFERENCES `bank`.`user` (`user_id`),

FOREIGN KEY (`activity_type_id`) REFERENCES `bank`.`activity_type`
(`activity_type_id`);
```

Table 08 - activity_type

```
CREATE TABLE `bank`.`activity_type` (
  `activity_type_id` INT NOT NULL,
  `activity_type_name` VARCHAR(100) NOT NULL,
  PRIMARY KEY (`activity_type_id`));
```

Table 09 - close_request

```
CREATE TABLE `bank`.`close_request` (
    `close_request_id` INT NOT NULL,
    `user_id` INT NOT NULL,
    `account_id` INT NOT NULL,
    `description` VARCHAR(100) NOT NULL,
    `requested_date` DATETIME NOT NULL,
    `request_status` VARCHAR(100) NOT NULL,
    PRIMARY KEY (`close_request_id`),
    FOREIGN KEY (`user_id`) REFERENCES `bank`.`user` (`user_id`),
    FOREIGN KEY (`account_id`) REFERENCES `bank`.`accounts` (`account_id`);
```

Table 10 - accounts

```
CREATE TABLE 'bank'.'accounts' (
`account_id` INT NOT NULL,
`account_number` VARCHAR(100) NOT NULL,
`account_type_id` INT NOT NULL,
`user_id` INT NOT NULL,
'balance' DOUBLE NOT NULL,
`account_status` VARCHAR(45) NOT NULL,
`started_date` DATETIME NOT NULL,
PRIMARY KEY ('account_id'),
FOREIGN KEY ('user_id') REFERENCES 'bank'.'user' ('user_id'),
FOREIGN
                                               REFERENCES
               KEY
                         (`account_type_id`)
`bank`.`account_type` (`account_type_id`);
Table 11 - account_type
```

```
CREATE TABLE `bank`.`account_type` (
  `account_type_id` INT NOT NULL,
  `account_type_name` VARCHAR(100) NOT NULL,
  PRIMARY KEY (`account_type_id`));
```

Table 12 - transaction

```
CREATE TABLE `bank`.`transaction` (
`transaction_id` INT NOT NULL,
`transaction_type_id` INT NOT NULL,
 `user_id` INT NOT NULL,
`account_id` INT NOT NULL,
`reference` VARCHAR(100) NOT NULL,
`transaction_amount` DOUBLE NOT NULL,
`transaction_charges` DOUBLE NOT NULL,
`after_balance` DOUBLE NOT NULL,
'date' DATETIME NOT NULL,
PRIMARY KEY (`transaction_id`),
FOREIGN
              KEY
                        (`transaction_type_id`)
                                                REFERENCES
`bank`.`transaction_type` (`transaction_type_id`),
FOREIGN KEY ('user_id') REFERENCES 'bank'.'user' ('user_id'),
FOREIGN KEY ('account_id') REFERENCES 'bank'.'accounts'
(`account_id`);
```

Table 13 - transaction_type

```
CREATE TABLE `bank`.`transaction_type` (
  `transaction_type_id` INT NOT NULL,
  `transaction_type_name` VARCHAR(100) NOT NULL,
  PRIMARY KEY (`transaction_type_id`));
```