```
CREATE SCHEMA 'BankingDB';
CREATE TABLE `BankingDB`.`address` (
 'address id' INT UNSIGNED NOT NULL,
 'house number' INT UNSIGNED NOT NULL,
 `street` VARCHAR(30) NOT NULL,
 'zip code' INT UNSIGNED NOT NULL,
 'city' VARCHAR(30) NOT NULL,
 `state` VARCHAR(2) NOT NULL,
 PRIMARY KEY ('address id'));
CREATE TABLE `BankingDB`.`customer` (
 `customer id` INT UNSIGNED NOT NULL,
 `fname` VARCHAR(30) NULL,
 `sname` VARCHAR(30) NOT NULL,
 'ssn' INT UNSIGNED NOT NULL,
 `address_id` INT UNSIGNED NOT NULL,
 PRIMARY KEY ('customer id'),
 UNIQUE INDEX 'ssn_UNIQUE' ('ssn' ASC) VISIBLE,
 INDEX 'customer address idx' ('address id' ASC) VISIBLE,
 CONSTRAINT 'customer address'
  FOREIGN KEY ('address_id')
  REFERENCES 'BankingDB'.'address' ('address id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION);
CREATE TABLE 'BankingDB'.'branch' (
 `branch id` INT UNSIGNED NOT NULL,
 `address id` INT UNSIGNED NOT NULL,
 PRIMARY KEY ('branch_id'),
 INDEX `branch_address_idx` (`address_id` ASC) VISIBLE,
 CONSTRAINT 'branch address'
  FOREIGN KEY ('address_id')
  REFERENCES 'BankingDB'.'address' ('address id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION);
CREATE TABLE 'BankingDB'.'employee' (
 `employee_id` INT UNSIGNED NOT NULL,
 `fname` VARCHAR(30) NULL,
 `sname` VARCHAR(30) NOT NULL,
 'salary' INT NOT NULL,
 'position' VARCHAR(40) NOT NULL,
 'ssn' INT UNSIGNED NOT NULL,
```

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'address id' INT UNSIGNED NOT NULL,
 `branch_id` INT UNSIGNED NOT NULL,
 PRIMARY KEY ('employee_id'),
 INDEX 'employee address idx' ('address id' ASC) VISIBLE,
 INDEX 'employee branch idx' ('branch id' ASC) VISIBLE,
 CONSTRAINT 'employee address'
  FOREIGN KEY ('address id')
  REFERENCES 'BankingDB'.'address' ('address id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION.
 CONSTRAINT 'employee branch'
  FOREIGN KEY ('branch id')
  REFERENCES 'BankingDB'.'branch' ('branch id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION);
CREATE TABLE `BankingDB`.`account_type` (
 `type` VARCHAR(40) NOT NULL,
 `interest_rate` FLOAT NULL,
 'required deposit' FLOAT NULL,
 `overdraft fee` FLOAT NULL,
 `service_fee` FLOAT NULL,
 `annual percentage fee` FLOAT NULL,
 PRIMARY KEY ('type'));
CREATE TABLE 'BankingDB'.'account' (
 `account_num` INT UNSIGNED NOT NULL,
 `account_name` VARCHAR(40) NOT NULL,
 'balance' VARCHAR(45) NOT NULL,
 `branch_id` INT UNSIGNED NOT NULL,
 `type` VARCHAR(40) NULL,
 'customer id' INT UNSIGNED NOT NULL,
 PRIMARY KEY ('account_num'),
 INDEX 'account home branch idx' ('branch id' ASC) VISIBLE,
 INDEX `account_type_idx` (`type` ASC) VISIBLE,
 INDEX 'account_owner_idx' ('customer_id' ASC) VISIBLE,
 CONSTRAINT `account_home_branch`
  FOREIGN KEY ('branch id')
  REFERENCES 'BankingDB'.'branch' ('branch_id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `account_type`
  FOREIGN KEY ('type')
  REFERENCES 'BankingDB'.'account type' ('type')
```

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ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT 'account owner'
  FOREIGN KEY ('customer_id')
  REFERENCES 'BankingDB'.'customer' ('customer_id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION);
CREATE TABLE 'BankingDB'.'transaction' (
 'trans id' INT UNSIGNED NOT NULL,
 'amount' FLOAT NOT NULL,
 'date' DATE NOT NULL,
 'trans type' VARCHAR(10) NOT NULL,
 'account_num' INT UNSIGNED NOT NULL,
 PRIMARY KEY ('trans_id'),
 INDEX `transaction_account_idx` (`account_num` ASC) VISIBLE,
 CONSTRAINT `transaction_account`
  FOREIGN KEY ('account num')
  REFERENCES `BankingDB`.`account` (`account_ num`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION);
```