

CS487 Database Design Project

Maxwell Twente

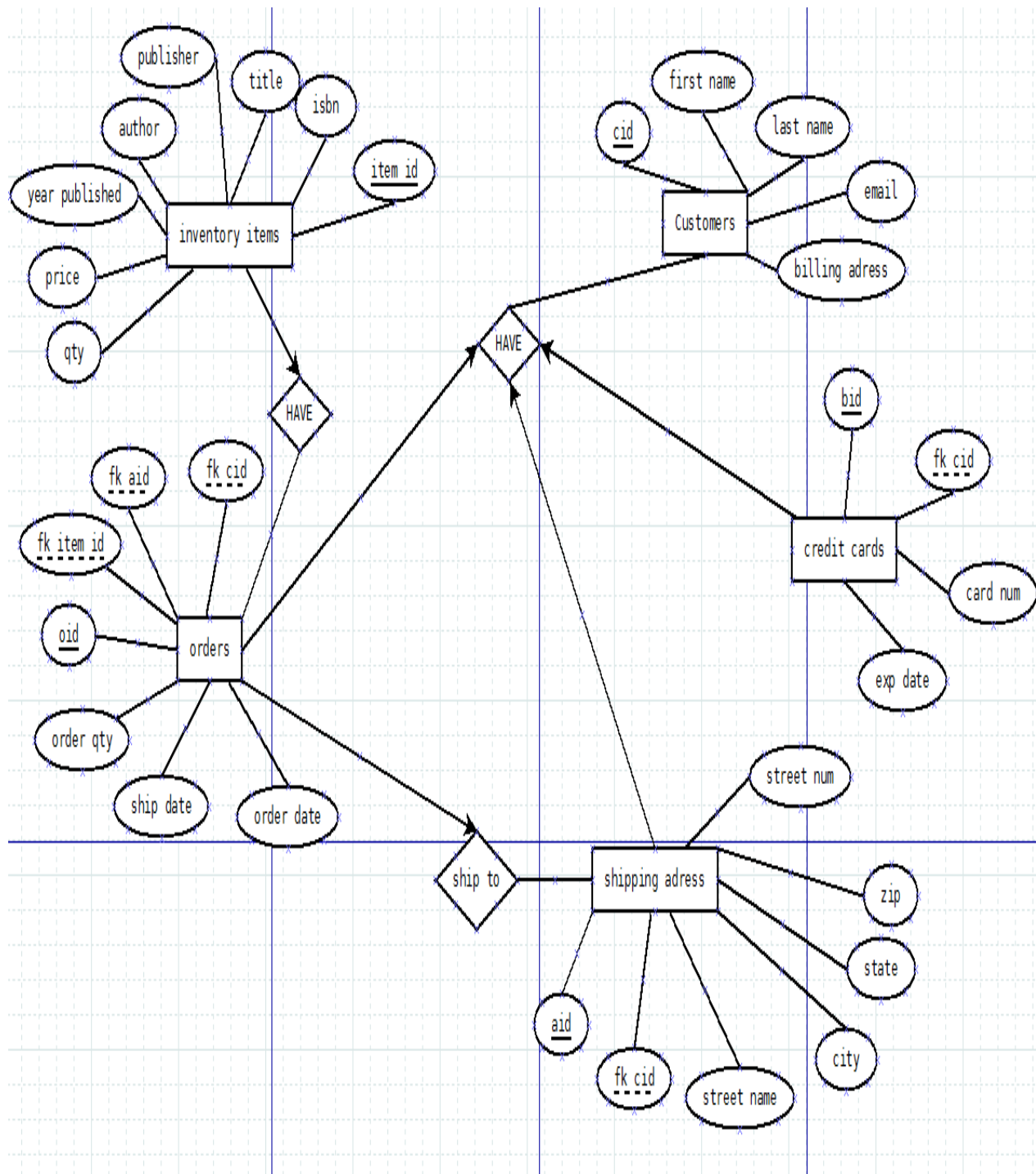
Department of Computer Science



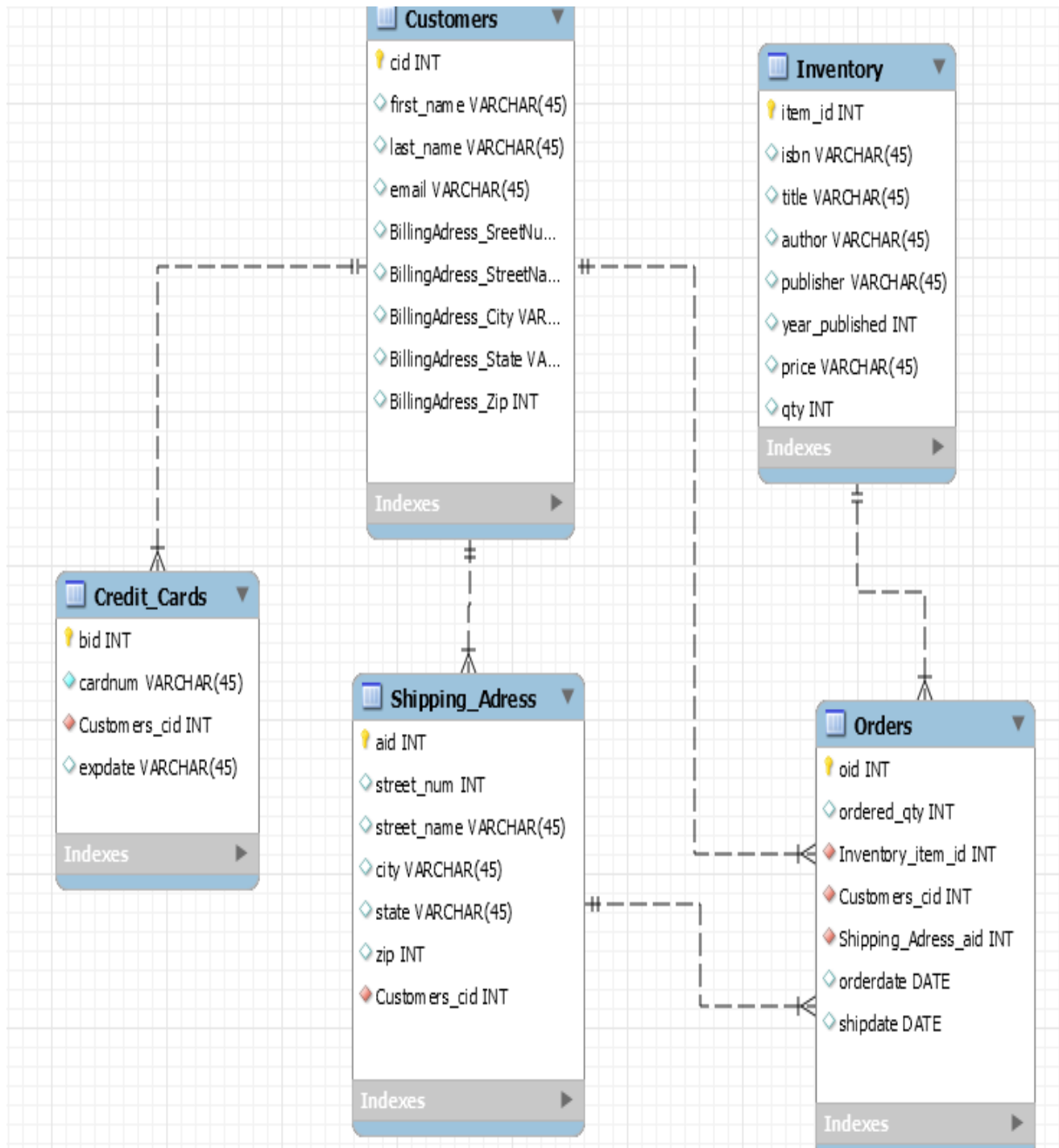
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1 Specification of Conceptual Model



2 Specification of Implementation model



2.1 Schema

2.1.1 Customers(

```
`cid` INT NOT NULL AUTO_INCREMENT,  
`first_name` VARCHAR(45) NULL,  
`last_name` VARCHAR(45) NULL,  
`email` VARCHAR(45) NULL,  
`BillingAddress_SreetNum` INT NULL,  
`BillingAddress_StreetName` VARCHAR(45) NULL,  
`BillingAddress_City` VARCHAR(45) NULL,  
`BillingAddress_State` VARCHAR(45) NULL,  
`BillingAddress_Zip` INT NULL,  
PRIMARY KEY (`cid`),  
UNIQUE INDEX `email_UNIQUE` (`email` ASC),  
UNIQUE INDEX `cid_UNIQUE` (`cid` ASC))
```

2.1.2 Inventory(

```
`item_id` INT NOT NULL AUTO_INCREMENT,  
`isbn` VARCHAR(45) NULL,  
`title` VARCHAR(45) NULL,  
`author` VARCHAR(45) NULL,  
`publisher` VARCHAR(45) NULL,  
`year_published` INT NULL,  
`price` DECIMAL(4,2) NULL,  
`qty` INT NULL,  
PRIMARY KEY (`item_id`),  
UNIQUE INDEX `item_id_UNIQUE` (`item_id` ASC))
```

2.1.3Credit_Cards (

```
`bid` INT NOT NULL AUTO_INCREMENT,  
`cardnum` VARCHAR(45) NOT NULL,  
`Customers_cid` INT NOT NULL,  
`expdate` VARCHAR(45) NULL,  
PRIMARY KEY (`bid`),  
UNIQUE INDEX `bid_UNIQUE` (`bid` ASC),  
INDEX `fk_Credit_Cards_Customers1_idx` (`Customers_cid` ASC),  
CONSTRAINT `fk_Credit_Cards_Customers1`  
FOREIGN KEY (`Customers_cid`)  
REFERENCES `satc1`.`Customers` (`cid`)  
ON DELETE NO ACTION
```

ON UPDATE NO ACTION)

```
2.1.4 Shipping_Adress (  
  `aid` INT NOT NULL AUTO_INCREMENT,  
  `street_num` INT NULL,  
  `street_name` VARCHAR(45) NULL,  
  `city` VARCHAR(45) NULL,  
  `state` VARCHAR(45) NULL,  
  `zip` INT NULL,  
  `Customers_cid` INT NOT NULL,  
  PRIMARY KEY (`aid`),  
  UNIQUE INDEX `aid_UNIQUE` (`aid` ASC),  
  INDEX `fk_Shipping_Adress_Customers1_idx` (`Customers_cid` ASC),  
  CONSTRAINT `fk_Shipping_Adress_Customers1`  
    FOREIGN KEY (`Customers_cid`)  
      REFERENCES `satc1`.`Customers` (`cid`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)
```

```
2.1.5Orders` (  
  `oid` INT NOT NULL AUTO_INCREMENT,  
  `ordered_qty` INT NULL,  
  `Inventory_item_id` INT NOT NULL,  
  `Customers_cid` INT NOT NULL,  
  `Shipping_Adress_aid` INT NOT NULL,  
  `orderdate` DATE NULL DEFAULT 19000101,  
  `shipdate` DATE NULL DEFAULT 19000101,  
  PRIMARY KEY (`oid`),  
  INDEX `fk_Orders_Inventory1_idx` (`Inventory_item_id` ASC),  
  INDEX `fk_Orders_Customers1_idx` (`Customers_cid` ASC),  
  INDEX `fk_Orders_Shipping_Adress1_idx` (`Shipping_Adress_aid` ASC),  
  UNIQUE INDEX `oid_UNIQUE` (`oid` ASC),  
  CONSTRAINT `fk_Orders_Inventory1`  
    FOREIGN KEY (`Inventory_item_id`)  
      REFERENCES `satc1`.`Inventory` (`item_id`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Orders_Customers1`
```

```
FOREIGN KEY (`Customers_cid`)  
REFERENCES `satc1`.`Customers` (`cid`)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION,  
CONSTRAINT `fk_Orders_Shipping_Address1`  
FOREIGN KEY (`Shipping_Address_aid`)  
REFERENCES `satc1`.`Shipping_Address` (`aid`)  
ON DELETE NO ACTION  
ON UPDATE NO ACTION)
```

2.2 Description of how ER model was translated into the shema

Each Entity in the relational model became a table in the relational schema. The customer has orders, credit cards, and shipping addresses. Orders have the customers id, adress to ship to, and the item id. The inventory hold all the information needed for the books. Shipping adress hold information needed to ship the items

2.3 Normalization

All tables in the database are in 3rd normal form

3 Database implementation

-- MySQL Workbench Forward Engineering

```
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='TRADITIONAL,ALLOW_INVALID_DATES';
```

-- Schema satc1

-- Schema satc1

```
CREATE SCHEMA IF NOT EXISTS `satc1` DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci ;
USE `satc1` ;
```

-- Table `satc1`.`Customers`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Customers` (
  `cid` INT NOT NULL AUTO_INCREMENT,
  `first_name` VARCHAR(45) NULL,
  `last_name` VARCHAR(45) NULL,
  `email` VARCHAR(45) NULL,
  `BillingAdress_SreetNum` INT NULL,
  `BillingAdress_StreetName` VARCHAR(45) NULL,
  `BillingAdress_City` VARCHAR(45) NULL,
  `BillingAdress_State` VARCHAR(45) NULL,
  `BillingAdress_Zip` INT NULL,
  PRIMARY KEY (`cid`),
  UNIQUE INDEX `email_UNIQUE` (`email` ASC),
  UNIQUE INDEX `cid_UNIQUE` (`cid` ASC))
ENGINE = InnoDB;
```

-- Table `satc1`.`Inventory`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Inventory` (
  `item_id` INT NOT NULL AUTO_INCREMENT,
  `isbn` VARCHAR(45) NULL,
  `title` VARCHAR(45) NULL,
  `author` VARCHAR(45) NULL,
  `publisher` VARCHAR(45) NULL,
  `year_published` INT NULL,
  `price` DECIMAL(4,2) NULL,
  `qty` INT NULL,
```



```

PRIMARY KEY (`item_id`),
UNIQUE INDEX `item_id_UNIQUE` (`item_id` ASC)
ENGINE = InnoDB;

```

```

-----
-- Table `satc1`.`Credit_Cards`
-----

```

```

CREATE TABLE IF NOT EXISTS `satc1`.`Credit_Cards` (
  `bid` INT NOT NULL AUTO_INCREMENT,
  `cardnum` VARCHAR(45) NOT NULL,
  `Customers_cid` INT NOT NULL,
  `expdate` VARCHAR(45) NULL,
  PRIMARY KEY (`bid`),
  UNIQUE INDEX `bid_UNIQUE` (`bid` ASC),
  INDEX `fk_Credit_Cards_Customers1_idx` (`Customers_cid` ASC),
  CONSTRAINT `fk_Credit_Cards_Customers1`
    FOREIGN KEY (`Customers_cid`)
      REFERENCES `satc1`.`Customers` (`cid`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `satc1`.`Shipping_Adress`
-----

```

```

CREATE TABLE IF NOT EXISTS `satc1`.`Shipping_Adress` (
  `aid` INT NOT NULL AUTO_INCREMENT,
  `street_num` INT NULL,
  `street_name` VARCHAR(45) NULL,
  `city` VARCHAR(45) NULL,
  `state` VARCHAR(45) NULL,
  `zip` INT NULL,
  `Customers_cid` INT NOT NULL,
  PRIMARY KEY (`aid`),
  UNIQUE INDEX `aid_UNIQUE` (`aid` ASC),
  INDEX `fk_Shipping_Adress_Customers1_idx` (`Customers_cid` ASC),
  CONSTRAINT `fk_Shipping_Adress_Customers1`
    FOREIGN KEY (`Customers_cid`)
      REFERENCES `satc1`.`Customers` (`cid`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `satc1`.`Orders`
-----

```

```

CREATE TABLE IF NOT EXISTS `satc1`.`Orders` (
  `oid` INT NOT NULL AUTO_INCREMENT,
  `ordered_qty` INT NULL,
  `Inventory_item_id` INT NOT NULL,
  `Customers_cid` INT NOT NULL,
  `Shipping_Adress_aid` INT NOT NULL,
  `orderdate` DATE NULL DEFAULT 19000101,
  `shipdate` DATE NULL DEFAULT 19000101,

```

```

PRIMARY KEY (`oid`),
INDEX `fk_Orders_Inventory1_idx` (`Inventory_item_id` ASC),
INDEX `fk_Orders_Customers1_idx` (`Customers_cid` ASC),
INDEX `fk_Orders_Shipping_Adress1_idx` (`Shipping_Address_aid` ASC),
UNIQUE INDEX `oid_UNIQUE` (`oid` ASC),
CONSTRAINT `fk_Orders_Inventory1`
  FOREIGN KEY (`Inventory_item_id`)
    REFERENCES `satc1`.`Inventory` (`item_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
CONSTRAINT `fk_Orders_Customers1`
  FOREIGN KEY (`Customers_cid`)
    REFERENCES `satc1`.`Customers` (`cid`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
CONSTRAINT `fk_Orders_Shipping_Adress1`
  FOREIGN KEY (`Shipping_Address_aid`)
    REFERENCES `satc1`.`Shipping_Address` (`aid`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;

```

```

-----
-- Data for table `satc1`.`Customers`
-----

```

```

START TRANSACTION;
USE `satc1`;
INSERT INTO `satc1`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAddress_SreetNum`,
`BillingAddress_StreetName`, `BillingAddress_City`, `BillingAddress_State`, `BillingAddress_Zip`) VALUES (1,
'Patrick', 'Rothfuss', 'pr@aol.com', 1, 'swagst', 'huntsville', 'al', 35801);
INSERT INTO `satc1`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAddress_SreetNum`,
`BillingAddress_StreetName`, `BillingAddress_City`, `BillingAddress_State`, `BillingAddress_Zip`) VALUES (3,
'Brandon', 'Sanderson', 'bs@aol.com', 3, 'swagst', 'huntsville', 'al', 35801);
INSERT INTO `satc1`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAddress_SreetNum`,
`BillingAddress_StreetName`, `BillingAddress_City`, `BillingAddress_State`, `BillingAddress_Zip`) VALUES (4,
'Terry', 'Brooks', 'tb@aol.com', 4, 'swagst', 'huntsville', 'al', 35801);
INSERT INTO `satc1`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAddress_SreetNum`,
`BillingAddress_StreetName`, `BillingAddress_City`, `BillingAddress_State`, `BillingAddress_Zip`) VALUES (2,
'Grady', 'Booch', 'bg@aol.com', 2, 'swaasd', 'huntsville', 'al', 35801);

```

```

COMMIT;

```

```

-----
-- Data for table `satc1`.`Inventory`
-----

```

```

START TRANSACTION;
USE `satc1`;
INSERT INTO `satc1`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (1, '076533433X', 'The Eye of The World', 'Robert Jordan', 'Tor', 2008, '12.21', 10);
INSERT INTO `satc1`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (2, '0060850523', 'Brave New World', 'Aldous Huxley', 'Harper', 2006, '8.42', 5);

```

```

INSERT INTO `satc1`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (3, '0201835959', 'The Mythical Man-Month', 'Frederick Brooks Jr.', 'Addison', 1995, '30.81', 3);
INSERT INTO `satc1`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (4, '0575079754', 'The Lies of Locke Lamora', 'Scott Lynch', 'Gollanez', 2007, '5.99', 12);
INSERT INTO `satc1`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (5, '0345518705', 'The Warded Man', 'Peter Brett', 'Del Rey', 2010, '6.00', 9);

```

```

COMMIT;

```

```

-----
-- Data for table `satc1`.`Credit_Cards`
-----

```

```

START TRANSACTION;
USE `satc1`;
INSERT INTO `satc1`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (1,
'123456789011111', 1, NULL);
INSERT INTO `satc1`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (2,
'123456789022222', 2, NULL);
INSERT INTO `satc1`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (3,
'123456789033333', 3, NULL);
INSERT INTO `satc1`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (4,
'123456789044444', 4, NULL);

```

```

COMMIT;

```

```

-----
-- Data for table `satc1`.`Shipping_Adress`
-----

```

```

START TRANSACTION;
USE `satc1`;
INSERT INTO `satc1`.`Shipping_Adress` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (1, 123, 'swagst', 'huntsville', 'al', 35801, 1);
INSERT INTO `satc1`.`Shipping_Adress` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (2, 1234, 'swagst', 'huntsville', 'al', 35801, 2);
INSERT INTO `satc1`.`Shipping_Adress` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (3, 12344, 'swagst', 'huntsville', 'al', 35801, 3);
INSERT INTO `satc1`.`Shipping_Adress` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (4, 245413123, 'swagst', 'huntsville', 'al', 35801, 4);

```

```

COMMIT;

```

```

-- MySQL Workbench Forward Engineering

```

```

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='TRADITIONAL,ALLOW_INVALID_DATES';

```

```

-----
-- Schema satc1
-----

```

```

-----
-- Schema satc1
-----

```

```

CREATE SCHEMA IF NOT EXISTS `satc1` DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci ;
USE `satc1` ;

```

-- Table `satc1`.`Customers`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Customers` (  
  `cid` INT NOT NULL AUTO_INCREMENT,  
  `first_name` VARCHAR(45) NULL,  
  `last_name` VARCHAR(45) NULL,  
  `email` VARCHAR(45) NULL,  
  `BillingAddress_SreetNum` INT NULL,  
  `BillingAddress_StreetName` VARCHAR(45) NULL,  
  `BillingAddress_City` VARCHAR(45) NULL,  
  `BillingAddress_State` VARCHAR(45) NULL,  
  `BillingAddress_Zip` INT NULL,  
  PRIMARY KEY (`cid`),  
  UNIQUE INDEX `email_UNIQUE` (`email` ASC),  
  UNIQUE INDEX `cid_UNIQUE` (`cid` ASC))  
ENGINE  
= InnoDB;
```

-- Table `satc1`.`Inventory`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Inventory` (  
  `item_id` INT NOT NULL AUTO_INCREMENT,  
  `isbn` VARCHAR(45) NULL,  
  `title` VARCHAR(45) NULL,  
  `author` VARCHAR(45) NULL,  
  `publisher` VARCHAR(45) NULL,  
  `year_published` INT NULL,  
  `price` DECIMAL(4,2) NULL,  
  `qty` INT NULL,  
  PRIMARY KEY (`item_id`),  
  UNIQUE INDEX `item_id_UNIQUE` (`item_id` ASC))  
ENGINE = InnoDB;
```

-- Table `satc1`.`Credit_Cards`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Credit_Cards` (  
  `bid` INT NOT NULL AUTO_INCREMENT,  
  `cardnum` VARCHAR(45) NOT NULL,  
  `Customers_cid` INT NOT NULL,  
  `expdate` VARCHAR(45) NULL,  
  PRIMARY KEY (`bid`),  
  UNIQUE INDEX `bid_UNIQUE` (`bid` ASC),  
  INDEX `fk_Credit_Cards_Customers1_idx` (`Customers_cid` ASC),  
  CONSTRAINT `fk_Credit_Cards_Customers1`  
    FOREIGN KEY (`Customers_cid`)  
      REFERENCES `satc1`.`Customers` (`cid`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

-- Table `satc1`.`Shipping_Adress`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Shipping_Adress` (  
  `aid` INT NOT NULL AUTO_INCREMENT,  
  `street_num` INT NULL,  
  `street_name` VARCHAR(45) NULL,  
  `city` VARCHAR(45) NULL,  
  `state` VARCHAR(45) NULL,  
  `zip` INT NULL,  
  `Customers_cid` INT NOT NULL,  
  PRIMARY KEY (`aid`),  
  UNIQUE INDEX `aid_UNIQUE` (`aid` ASC),  
  INDEX `fk_Shipping_Adress_Customers1_idx` (`Customers_cid` ASC),  
  CONSTRAINT `fk_Shipping_Adress_Customers1`  
    FOREIGN KEY (`Customers_cid`)  
      REFERENCES `satc1`.`Customers` (`cid`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

-- Table `satc1`.`Orders`

```
CREATE TABLE IF NOT EXISTS `satc1`.`Orders` (  
  `oid` INT NOT NULL AUTO_INCREMENT,  
  `ordered_qty` INT NULL,  
  `Inventory_item_id` INT NOT NULL,  
  `Customers_cid` INT NOT NULL,  
  `Shipping_Adress_aid` INT NOT NULL,  
  `orderdate` DATE NULL DEFAULT 19000101,  
  `shipdate` DATE NULL DEFAULT 19000101,  
  PRIMARY KEY (`oid`),  
  INDEX `fk_Orders_Inventory1_idx` (`Inventory_item_id` ASC),  
  INDEX `fk_Orders_Customers1_idx` (`Customers_cid` ASC),  
  INDEX `fk_Orders_Shipping_Adress1_idx` (`Shipping_Adress_aid` ASC),  
  UNIQUE INDEX `oid_UNIQUE` (`oid` ASC),  
  CONSTRAINT `fk_Orders_Inventory1`  
    FOREIGN KEY (`Inventory_item_id`)  
      REFERENCES `satc1`.`Inventory` (`item_id`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Orders_Customers1`  
    FOREIGN KEY (`Customers_cid`)  
      REFERENCES `satc1`.`Customers` (`cid`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION,  
  CONSTRAINT `fk_Orders_Shipping_Adress1`  
    FOREIGN KEY (`Shipping_Adress_aid`)  
      REFERENCES `satc1`.`Shipping_Adress` (`aid`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```

SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;

```

```

-----
-- Data for table `satcl`.`Customers`
-----

```

```

START TRANSACTION;
USE `satcl`;
INSERT INTO `satcl`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAdress_SreetNum`,
`BillingAdress_StreetName`, `BillingAdress_City`, `BillingAdress_State`, `BillingAdress_Zip`) VALUES (1,
'Patrick', 'Rothfuss', 'pr@aol.com', 1, 'swagst', 'huntsville', 'al', 35801);
INSERT INTO `satcl`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAdress_SreetNum`,
`BillingAdress_StreetName`, `BillingAdress_City`, `BillingAdress_State`, `BillingAdress_Zip`) VALUES (3,
'Brandon', 'Sanderson', 'bs@aol.com', 3, 'swagst', 'hunstville', 'al', 35801);
INSERT INTO `satcl`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAdress_SreetNum`,
`BillingAdress_StreetName`, `BillingAdress_City`, `BillingAdress_State`, `BillingAdress_Zip`) VALUES (4,
'Terry', 'Brooks', 'tb@aol.com', 4, 'swagst', 'huntsville', 'al', 35801);
INSERT INTO `satcl`.`Customers` (`cid`, `first_name`, `last_name`, `email`, `BillingAdress_SreetNum`,
`BillingAdress_StreetName`, `BillingAdress_City`, `BillingAdress_State`, `BillingAdress_Zip`) VALUES (2,
'Grady', 'Booch', 'bg@aol.com', 2, 'swaasd', 'huntsville', 'al', 35801);

```

```

COMMIT;

```

```

-----
-- Data for table `satcl`.`Inventory`
-----

```

```

START TRANSACTION;
USE `satcl`;
INSERT INTO `satcl`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (1, '076533433X', 'The Eye of The World', 'Robert Jordan', 'Tor', 2008, '12.21', 10);
INSERT INTO `satcl`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (2, '0060850523', 'Brave New World', 'Aldous Huxley', 'Harper', 2006, '8.42', 5);
INSERT INTO `satcl`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (3, '0201835959', 'The Mythical Man-Month', 'Frederick Brooks Jr.', 'Addison', 1995, '30.81', 3);
INSERT INTO `satcl`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (4, '0575079754', 'The Lies of Locke Lamora', 'Scott Lynch', 'Gollanez', 2007, '5.99', 12);
INSERT INTO `satcl`.`Inventory` (`item_id`, `isbn`, `title`, `author`, `publisher`, `year_published`, `price`, `qty`)
VALUES (5, '0345518705', 'The Warded Man', 'Peter Brett', 'Del Rey', 2010, '6.00', 9);

```

```

COMMIT;

```

```

-----
-- Data for table `satcl`.`Credit_Cards`
-----

```

```

START TRANSACTION;
USE `satcl`;
INSERT INTO `satcl`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (1,
'1234567890111111', 1, NULL);
INSERT INTO `satcl`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (2,
'1234567890222222', 2, NULL);
INSERT INTO `satcl`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (3,
'1234567890333333', 3, NULL);
INSERT INTO `satcl`.`Credit_Cards` (`bid`, `cardnum`, `Customers_cid`, `expdate`) VALUES (4,
'1234567890444444', 4, NULL);

```

COMMIT;

-- Data for table `satcl`.`Shipping_Address`

```
START TRANSACTION;
USE `satcl`;
INSERT INTO `satcl`.`Shipping_Address` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (1, 123, 'swagst', 'huntsville', 'al', 35801, 1);
INSERT INTO `satcl`.`Shipping_Address` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (2, 1234, 'swagst', 'huntsville', 'al', 35801, 2);
INSERT INTO `satcl`.`Shipping_Address` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (3, 12344, 'swagst', 'huntsville', 'al', 35801, 3);
INSERT INTO `satcl`.`Shipping_Address` (`aid`, `street_num`, `street_name`, `city`, `state`, `zip`,
`Customers_cid`) VALUES (4, 245413123, 'swagst', 'huntsville', 'al', 35801, 4);
```

COMMIT;

-- Data for table `satcl`.`Orders`

```
START TRANSACTION;
USE `satcl`;
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (1, 1, 5, 1, 1, '2014-11-03', NULL);
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (2, 1, 4, 1, 1, '2014#11#03', NULL);
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (3, 1, 1, 1, 1, '20140303', '20140328');
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (4, 2, 3, 2, 2, '20140823', '20140922');
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (5, 1, 1, 2, 2, '20141101', NULL);
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (6, 1, 1, 3, 3, '20141008', '20141022');
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (7, 1, 1, 4, 4, '20141101', '20141118');
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (8, 2, 5, 4, 4, '20141101', '20141118');
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (9, 1, 4, 4, 4, '20140101', '20140124');
```

COMMIT;

-- Data for table `satcl`.`Orders`

```
START TRANSACTION;
USE `satcl`;
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (1, 1, 5, 1, 1, '2014-11-03', NULL);
INSERT INTO `satcl`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Address_aid`, `orderdate`, `shipdate`) VALUES (2, 1, 4, 1, 1, '2014#11#03', NULL);
```

```

INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (3, 1, 1, 1, 1, '20140303', '20140328');
INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (4, 2, 3, 2, 2, '20140823', '20140922');
INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (5, 1, 1, 2, 2, '20141101', NULL);
INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (6, 1, 1, 3, 3, '20141008', '20141022');
INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (7, 1, 1, 4, 4, '20141101', '20141118');
INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (8, 2, 5, 4, 4, '20141101', '20141118');
INSERT INTO `satc1`.`Orders` (`oid`, `ordered_qty`, `Inventory_item_id`, `Customers_cid`,
`Shipping_Adress_aid`, `orderdate`, `shipdate`) VALUES (9, 1, 4, 4, 4, '20140101', '20140124');

COMMIT;

```