

```
1 • CREATE DATABASE test;
2 • use test;
3 • CREATE TABLE users (
4     id INT(11) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
5     firstname VARCHAR(30) NOT NULL,
6     lastname VARCHAR(30) NOT NULL,
7     password VARCHAR(20) NOT NULL,
8     email VARCHAR(50) NOT NULL,
9     age INT(3),
10    location VARCHAR(50),
11    date TIMESTAMP
12 );
```

```
1 • USE test;
2
3 • CREATE TABLE Course (
4     courseid INT AUTO_INCREMENT PRIMARY KEY,
5     title VARCHAR(50),
6     price DECIMAL(10, 2)
7 );
8
9 • INSERT INTO Course (title, price)
10 VALUES ('Course 1', 49.99);
11
12 • INSERT INTO Course (title, price)
13 VALUES ('Course 2', 59.99);
14
15 • INSERT INTO Course (title, price)
16 VALUES ('Course 3', 59.99);
17
18 • SELECT * FROM Course;
19
20 • CREATE TABLE Cart (
21     dateCreate TIMESTAMP DEFAULT CURRENT_TIMESTAMP AUTO_INCREMENT PRIMARY KEY,
22     user_id INT,
23     course_id INT,
24     name VARCHAR(50),
25     quantity INT,
26     price DECIMAL(10, 2),
27     discount DECIMAL(4, 2) DEFAULT 0.00,
28     purchased BOOLEAN NOT NULL DEFAULT false,
29     FOREIGN KEY (orderId) REFERENCES Orders(orderID)
30 );
```

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31
32 • INSERT INTO Cart (user_id, course_id, name, quantity, price, discount)
33   VALUES (1, 1, 'Course 1', 1, 49.99, 0.00);
34
35 • INSERT INTO Cart (user_id, course_id, name, quantity, price, discount)
36   VALUES (1, 2, 'Course 2', 1, 59.99, 0.00);
37
38 • INSERT INTO Cart (user_id, course_id, name, quantity, price, discount)
39   VALUES (1, 3, 'Course 3', 1, 59.99, 0.00);
40
41 • CREATE TABLE Customer (
42     customerID INT AUTO_INCREMENT PRIMARY KEY,
43     username VARCHAR(20),
44     password VARCHAR(50),
45     email VARCHAR(50),
46     phone VARCHAR(50),
47     cardNumber VARCHAR(16),
48     created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
49     FOREIGN KEY (adminID) REFERENCES Admin(adminID)
50 );
51
52 • CREATE TABLE Orders (
53     orderID INT AUTO_INCREMENT PRIMARY KEY,
54     customerID INT NOT NULL,
55     orderDate TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
56     subtotal DECIMAL(10, 2),
57     discountTotal DECIMAL(10, 2) DEFAULT 0.10,
58     total DECIMAL(10, 2),
59     FOREIGN KEY (customerID) REFERENCES Customer(customerID),
60     FOREIGN KEY (adminID) REFERENCES Admin(adminID)
61 );
```

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62
63 ● ○ CREATE TABLE Payment (
64     paymentID INT AUTO_INCREMENT PRIMARY KEY,
65     orderID INT NOT NULL,
66     cardType VARCHAR(50),
67     cardNumber VARCHAR(16),
68     cardExpiration VARCHAR(7),
69     cardCVV VARCHAR(4),
70     FOREIGN KEY (orderID) REFERENCES Orders(orderID),
71     FOREIGN KEY (adminID) REFERENCES Admin(adminID)
72 );
73
74 ● ○ CREATE TABLE Admin (
75     adminID INT AUTO_INCREMENT PRIMARY KEY,
76     role VARCHAR(50),
77     username VARCHAR(50),
78     password VARCHAR(50),
79     email VARCHAR(50),
80     phone VARCHAR(50),
81     created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
82 );
83
84
```