

Exercise 1:

1NF

<u>orderId</u>	date	<u>customerId</u>	customerName	city	<u>itemId</u>	itemName	quantity	price
2301	23/02/2011	101	Martin	Prague	3786	Net	3	\$35,00
2301	23/02/2011	101	Martin	Prague	4011	Racket	6	\$65,00
2301	23/02/2011	101	Martin	Prague	9132	Pack-3	8	\$4,75
2302	25/02/2011	107	Herman	Madrid	5794	Pack-6	4	\$5,00
2303	27/02/2011	110	Pedro	Moscow	4011	Racket	2	\$65,00
2303	27/02/2011	110	Pedro	Moscow	3141	Cover	2	\$10,00

2NF and 3NF

<u>orderId</u>	<u>itemId</u>	quantity
2301	3786	3
2301	4011	6
2301	9132	8
2302	5794	4
2303	4011	2
2303	3141	2

<u>itemId</u>	itemName	price
3786	Net	\$35,00
4011	Racket	\$65,00
9132	Pack-3	\$4,75
5794	Pack-6	\$5,00
3141	Cover	\$10,00

<u>customerId</u>	customerName	city
101	Martin	Prague
107	Herman	Madrid
110	Pedro	Moscow

<u>orderId</u>	customerId	date
2301	101	23/02/2011
2302	107	25/02/2011
2303	110	27/02/2011

TABLE CREATION QUERY:

CREATE TABLE IF NOT EXISTS orders

```
(orderId INT,
itemId INT,
quantity INT,
PRIMARY KEY(orderId, itemId)
);
```

CREATE TABLE IF NOT EXISTS items

```
(itemId INT,
itemName VARCHAR(15),
price REAL,
PRIMARY KEY(itemId)
);
```

CREATE TABLE IF NOT EXISTS customers

```
(customerId INT,
customerName VARCHAR(15),
city VARCHAR(15),
PRIMARY KEY(customerId)
);
```

```
);  
CREATE TABLE IF NOT EXISTS date_orders  
(orderId INT,  
  customerId INT,  
  date DATE,  
  PRIMARY KEY(orderId)  
);
```

TABLE INSERTION QUERY:

```
INSERT INTO orders ('2301','3786','3');  
INSERT INTO orders ('2301','4011','6');  
INSERT INTO orders ('2301','9132','8');  
INSERT INTO orders ('2302','5794','4');  
INSERT INTO orders ('2303','4011','2');  
INSERT INTO orders ('2303','3141','2');
```

```
INSERT INTO items ('3786','Net','35.00');  
INSERT INTO items ('3786','Racket','65.00');  
INSERT INTO items ('3786','Pack-3','4.75');  
INSERT INTO items ('3786','Pack-6','5.00');  
INSERT INTO items ('3786','Cover','10.00');
```