

From the following tables write a query to find the salesperson and customer who reside in the same city. Return Salesman, cust_name and city

--Database

```
1 --Database
2 CREATE DATABASE `sql_bootcamp_feb2023`;
3 USE `sql_bootcamp_feb2023`;
4
```

--Tables (salesman & customer)

```
1 --Table salesman
2 CREATE TABLE IF NOT EXISTS `salesman` (
3   `salesman_id` int(11) NOT NULL AUTO_INCREMENT,
4   `name` varchar(50) DEFAULT NULL,
5   `city` varchar(50) DEFAULT NULL,
6   `commission` decimal(20,6) DEFAULT NULL,
7   PRIMARY KEY (`salesman_id`)
8 )
```

```
1 --Table Customer
2 CREATE TABLE IF NOT EXISTS `customer` (
3   `customer_id` int(11) NOT NULL,
4   `cust_name` varchar(50) NOT NULL DEFAULT '',
5   `city` varchar(50) NOT NULL DEFAULT '',
6   `grade` int(11) NOT NULL DEFAULT 0,
7   `salesman_id` int(11) NOT NULL DEFAULT 0,
8   PRIMARY KEY (`customer_id`),
9   KEY `fk_salesman` (`salesman_id`),
10  CONSTRAINT `fk_salesman` FOREIGN KEY (`salesman_id`) REFERENCES `salesman` (`salesman_id`) ON DELETE NO ACTION ON UPDATE
11  NO ACTION
12 )
```

--Insert Values

```
1 /* Insert salesman data */
2 INSERT INTO `salesman` (`salesman_id`, `name`, `city`, `commission`) VALUES
3   (5001, 'James Hoog', 'New York', 0.150000),
4   (5002, 'Nail Knite', 'Paris', 0.130000),
5   (5003, 'Lauson Hen', 'San Jose', 0.120000),
6   (5005, 'Pit Alex', 'London', 0.110000),
7   (5006, 'Mc Lyon', 'Paris', 0.140000),
8   (5007, 'Paul Adam', 'Rome', 0.130000);
```

```
1 /* Insert customer data */
2 INSERT INTO `customer` (`customer_id`, `cust_name`, `city`, `grade`, `salesman_id`) VALUES
3   (3001, 'Brad Guzan', 'London', 0, 5005),
4   (3002, 'Nick Rimando', 'New York', 100, 5001),
5   (3003, 'Jozy Altidor', 'Moscow', 200, 5007),
6   (3004, 'Fabian Johnson', 'Paris', 300, 5006),
7   (3005, 'Graham Zusi', 'California', 200, 5002),
8   (3007, 'Brad Davis', 'New York', 200, 5001),
9   (3008, 'Julian Green', 'London', 300, 5002),
10  (3009, 'Geoff Cameron', 'Berlin', 100, 5003);
```

--Inner Join

```
1 /* INNER JOIN*/  
2 SELECT a.name AS "salesman", b.cust_name AS "customer", b.city AS "city"  
3 FROM salesman a  
4 JOIN customer b  
5 ON b.city = a.city
```

--Result

salesman	customer	city
Pit Alex	Brad Guzan	London
James Hoog	Nick Rimando	New York
Nail Knite	Fabian Johnson	Paris
Mc Lyon	Fabian Johnson	Paris
James Hoog	Brad Davis	New York
Pit Alex	Julian Green	London