

1. **SELECT** S.name **AS** salesman\_name, C.cust\_name **AS** customer\_name, S.city **FROM** Salesman S **INNER JOIN** Customer C **ON** S.salesman\_id = C.salesman\_id **WHERE** S.city = C.city;

salesman_name varchar	customer_name varchar	city varchar
James Hoog	Nick Rimando	New York
James Hoog	Brad Davis	New York
Pit Alex	Brad Guzan	London
Mc Lyon	Fabian Johns	Paris

2. **SELECT** Orders.ord\_no **AS** order\_no, Orders.purch\_amt **AS** purchase\_amount, Customer.cust\_name **AS** customer\_name, Customer.city **AS** customer\_city **FROM** Orders **INNER JOIN** Customer **ON** Orders.customer\_id = Customer.customer\_id **WHERE** Orders.purch\_amt **BETWEEN** 500 **AND** 2000;

order_no int	purchase_amount newdecimal	customer_name varchar	customer_city varchar
70007	948.50	Graham Zusi	California
70010	1983.43	Fabian Johns	Paris

3. **SELECT** Salesman.name **AS** salesman\_name, Customer.cust\_name **AS** customer\_name **FROM** Salesman **INNER JOIN** Customer **ON** Salesman.salesman\_id = Customer.salesman\_id;

salesman_name varchar	customer_name varchar
James Hoog	Nick Rimando
James Hoog	Brad Davis
Nail Knite	Graham Zusi
Nail Knite	Julian Green
Lauson Hen	Geoff Camero
Pit Alex	Brad Guzan
Mc Lyon	Fabian Johns
Paul Adam	Jozy Altidor

4. `SELECT C.cust_name FROM Customer C JOIN Salesman S ON C.salesman_id = S.salesman_id WHERE S.city <> C.city AND S.commission > 0.13;`

Empty Set (0.001 sec)

5. `SELECT S.salesman_id, S.name AS Salesman_Name, S.city AS Salesman_City, C.customer_id, C.cust_name AS Customer_Name, C.city AS Customer_City, C.grade, O.ord_no, O.purch_amt, O.ord_date FROM Salesman S JOIN Customer C ON S.salesman_id = C.salesman_id JOIN Orders O ON C.customer_id = O.customer_id;`

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salesman_id int	Salesman_Name varchar	Salesman_City varchar	customer_id int	Customer_Name varchar	Customer_City varchar	grade int	ord_no int	purch_amt newdecimal	ord_date date
5001	James Hoog	New York	3002	Nick Rimando	New York	100	70002	65.26	2012-10-05
5001	James Hoog	New York	3002	Nick Rimando	New York	100	70008	5760.00	2012-09-10
5001	James Hoog	New York	3002	Nick Rimando	New York	100	70013	3045.60	2012-04-25
5001	James Hoog	New York	3007	Brad Davis	New York	200	70005	2400.60	2012-07-27
5002	Nail Knite	Paris	3005	Graham Zusi	California	200	70001	150.50	2012-10-05
5002	Nail Knite	Paris	3005	Graham Zusi	California	200	70007	948.50	2012-09-10
5002	Nail Knite	Paris	3008	Julian Green	London	300	70012	250.45	2012-06-27
5003	Lauson Hen	Paris	3009	Geoff Camero	Berlin	100	70003	2480.40	2012-10-10
5003	Lauson Hen	Paris	3009	Geoff Camero	Berlin	100	70004	110.50	2012-08-17
5005	Pit Alex	London	3001	Brad Guzan	London	200	70009	270.65	2012-09-10
5006	Mc Lyon	Paris	3004	Fabian Johns	Paris	300	70010	1983.43	2012-10-10
5007	Paul Adam	Rome	3003	Jozy Altidor	Moscow	200	70011	75.29	2012-08-17

6. **SELECT** C.cust\_name, C.grade, S.name **AS** Salesman\_Name **FROM** Customer C **LEFT JOIN** Salesman S

**ON** C.salesman\_id = S.salesman\_id **WHERE** C.grade < 300 **ORDER BY** C.cust\_name **ASC**;

cust_name varchar	grade int	Salesman_Name varchar
Brad Davis	200	James Hoog
Brad Guzan	200	Pit Alex
Geoff Camero	100	Lauson Hen
Graham Zusi	200	Nail Knite
Jozy Altidor	200	Paul Adam
Nick Rimando	100	James Hoog

7. .

a. **ASCENDING ORDER** - **SELECT** C.cust\_name **FROM** Customer C **ORDER BY** C.cust\_name **ASC**;

* cust_name varchar(50)
Brad Davis
Brad Guzan
Fabian Johns
Geoff Camero
Graham Zusi
Jozy Altidor
Julian Green
Nick Rimando

- b. DESCENDING ORDER –`SELECT C.cust_name FROM Customer C ORDER BY C.cust_name`  
`DESC;`

* cust_name varchar(50)
Nick Rimando
Julian Green
Jozy Altidor
Graham Zusi
Geoff Camero
Fabian Johns
Brad Guzan
Brad Davis

8. **SELECT** C.cust\_name, C.city, O.ord\_no, O.ord\_date, O.purch\_amt **FROM** Customer C **LEFT JOIN** Orders  
 O **ON** C.customer\_id = O.customer\_id **ORDER BY** O.ord\_date **ASC**;

cust_name varchar	city varchar	ord_no int	ord_date date	purch_amt newdecimal
Nick Rimando	New York	70013	2012-04-25	3045.60
Julian Green	London	70012	2012-06-27	250.45
Brad Davis	New York	70005	2012-07-27	2400.60
Jozy Altidor	Moscow	70011	2012-08-17	75.29
Geoff Camero	Berlin	70004	2012-08-17	110.50
Brad Guzan	London	70009	2012-09-10	270.65
Nick Rimando	New York	70008	2012-09-10	5760.00
Graham Zusi	California	70007	2012-09-10	948.50
Nick Rimando	New York	70002	2012-10-05	65.26
Graham Zusi	California	70001	2012-10-05	150.50
Fabian Johns	Paris	70010	2012-10-10	1983.43
Geoff Camero	Berlin	70003	2012-10-10	2480.40

9. `SELECT DISTINCT S.name FROM Salesman S LEFT JOIN Customer C ON S.salesman_id = C.salesman_id LEFT JOIN Orders O ON C.customer_id = O.customer_id;`

name varchar
James Hoog
Nail Knite
Lauson Hen
Pit Alex
Mc Lyon
Paul Adam

10. `SELECT DISTINCT S.name FROM Salesman S LEFT JOIN Customer C ON S.salesman_id = C.salesman_id LEFT JOIN Orders O ON C.customer_id = O.customer_id WHERE (O.purch_amt >= 2000 OR O.ord_no IS NULL) AND C.grade IS NOT NULL;`

name varchar
James Hoog
Lauson Hen

11. **SELECT** C.cust\_name, C.city, O.ord\_no, O.ord\_date, O.purch\_amt **FROM** Customer C **JOIN** Orders O **ON**

C.customer\_id = O.customer\_id **WHERE** C.grade **IS NOT NULL**;

cust_name varchar	city varchar	ord_no int	ord_date date	purch_amt newdecimal
Brad Guzan	London	70009	2012-09-10	270.65
Nick Rimando	New York	70002	2012-10-05	65.26
Nick Rimando	New York	70008	2012-09-10	5760.00
Nick Rimando	New York	70013	2012-04-25	3045.60
Jozy Altidor	Moscow	70011	2012-08-17	75.29
Fabian Johns	Paris	70010	2012-10-10	1983.43
Graham Zusi	California	70001	2012-10-05	150.50
Graham Zusi	California	70007	2012-09-10	948.50
Brad Davis	New York	70005	2012-07-27	2400.60
Julian Green	London	70012	2012-06-27	250.45
Geoff Camero	Berlin	70003	2012-10-10	2480.40
Geoff Camero	Berlin	70004	2012-08-17	110.50

12. `.SELECT S.name AS Salesman_Name, C.cust_name AS Customer_Name FROM Salesman S, Customer`

C;

	Q	Salesman_Name varchar	Customer_Name varchar
> 24		James Hoog	Fabian Johns
> 25		Paul Adam	Graham Zusi
> 26		Mc Lyon	Graham Zusi
> 27		Pit Alex	Graham Zusi
> 28		Lauson Hen	Graham Zusi
> 29		Nail Knite	Graham Zusi
> 30		James Hoog	Graham Zusi
> 31		Paul Adam	Brad Davis
> 32		Mc Lyon	Brad Davis
> 33		Pit Alex	Brad Davis
> 34		Lauson Hen	Brad Davis
> 35		Nail Knite	Brad Davis
> 36		James Hoog	Brad Davis
> 37		Paul Adam	Julian Green
> 38		Mc Lyon	Julian Green
> 39		Pit Alex	Julian Green
> 40		Lauson Hen	Julian Green
> 41		Nail Knite	Julian Green
> 42		James Hoog	Julian Green
> 43		Paul Adam	Geoff Camero
> 44		Mc Lyon	Geoff Camero
> 45		Pit Alex	Geoff Camero
> 46		Lauson Hen	Geoff Camero
> 47		Nail Knite	Geoff Camero
> 48		James Hoog	Geoff Camero



Q	Salesman_Name varchar	Customer_Name varchar
> 1	Paul Adam	Brad Guzan
> 2	Mc Lyon	Brad Guzan
> 3	Pit Alex	Brad Guzan
> 4	Lauson Hen	Brad Guzan
> 5	Nail Knite	Brad Guzan
> 6	James Hoog	Brad Guzan
> 7	Paul Adam	Nick Rimando
> 8	Mc Lyon	Nick Rimando
> 9	Pit Alex	Nick Rimando
> 10	Lauson Hen	Nick Rimando
> 11	Nail Knite	Nick Rimando
> 12	James Hoog	Nick Rimando
> 13	Paul Adam	Jozy Altidor
> 14	Mc Lyon	Jozy Altidor
> 15	Pit Alex	Jozy Altidor
> 16	Lauson Hen	Jozy Altidor
> 17	Nail Knite	Jozy Altidor
> 18	James Hoog	Jozy Altidor
> 19	Paul Adam	Fabian Johns
> 20	Mc Lyon	Fabian Johns
> 21	Pit Alex	Fabian Johns
> 22	Lauson Hen	Fabian Johns
> 23	Nail Knite	Fabian Johns

13. `SELECT C.COM_NAME, I.PRO_ID, I.PRO_PRICE FROM Company C JOIN Item I ON C.COM_ID = I.COM_ID WHERE I.PRO_PRICE = (SELECT MAX(PRO_PRICE) FROM Item WHERE COM_ID = C.COM_ID);`

COM_NAME varchar	PRO_ID int	PRO_PRICE newdecimal
Samsung	105	5000.00
iBall	106	900.00
Epsion	108	2600.00
Zebronics	103	250.00
Asus	101	3200.00
Frontech	104	550.00

14. `SELECT C.COM_NAME FROM Company C JOIN Item I ON C.COM_ID = I.COM_ID GROUP BY C.COM_ID, C.COM_NAME HAVING AVG(I.PRO_PRICE) >= 350;`

COM_NAME varchar
Samsung
iBall
Epsion
Asus
Frontech

15. `SELECT C.COM_NAME, AVG(I.PRO_PRICE) AS Average_Price FROM Company C JOIN Item I ON  
C.COM_ID = I.COM_ID GROUP BY C.COM_ID, C.COM_NAME;`

COM_NAME varchar	Average_Price newdecimal
Samsung	5000.000000
iBall	650.000000
Epsion	1475.000000
Zebronics	250.000000
Asus	3200.000000
Frontech	500.000000

16. .



```

1 CREATE TABLE Salesman (
2     salesman_id INT PRIMARY KEY,
3     name VARCHAR(50) NOT NULL,
4     city VARCHAR(50),
5     commission DECIMAL(5, 2)
6 );

```



```

1 INSERT INTO Salesman (salesman_id, name, city, commission) VALUES
2 (5001, 'James Hoog', 'New York', 0.15),
3 (5002, 'Nail Knite', 'Paris', 0.13),
4 (5005, 'Pit Alex', 'London', 0.11),
5 (5006, 'Mc Lyon', 'Paris', 0.14),
6 (5003, 'Lauson Hen', 'Paris', 0.12),
7 (5007, 'Paul Adam', 'Rome', 0.13);

```

* salesman_id int	* name varchar(50)	city varchar(50)	commission decimal(5,2)
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5003	Lauson Hen	Paris	0.12
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13



```

1 CREATE TABLE Customer (
2     customer_id INT PRIMARY KEY,
3     cust_name VARCHAR(50) NOT NULL,
4     city VARCHAR(50),
5     grade INT,
6     salesman_id INT,
7     FOREIGN KEY (salesman_id) REFERENCES Salesman(salesman_id)
8 );

```



```

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

```

* customer_id int	* cust_name varchar(50)	city varchar(50)	grade int	salesman_id int
3001	Brad Guzan	London	200	5005
3002	Nick Rimando	New York	100	5001
3003	Jozy Altidor	Moscow	200	5007
3004	Fabian Johns	Paris	300	5006
3005	Graham Zusi	California	200	5002
3007	Brad Davis	New York	200	5001
3008	Julian Green	London	300	5002
3009	Geoff Camero	Berlin	100	5003



```
1 CREATE TABLE Orders (
2     ord_no INT PRIMARY KEY,
3     purch_amt DECIMAL(10, 2),
4     ord_date DATE,
5     customer_id INT,
6     salesman_id INT,
7     FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),
8     FOREIGN KEY (salesman_id) REFERENCES Salesman(salesman_id)
9 );
```



```
1 INSERT INTO Orders (ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES
2 (70001, 150.50, '2012-10-05', 3005, 5002),
3 (70009, 270.65, '2012-09-10', 3001, 5005),
4 (70002, 65.26, '2012-10-05', 3002, 5001),
5 (70004, 110.50, '2012-08-17', 3009, 5003),
6 (70007, 948.50, '2012-09-10', 3005, 5002),
7 (70005, 2400.60, '2012-07-27', 3007, 5001),
8 (70008, 5760.00, '2012-09-10', 3002, 5001),
9 (70010, 1983.43, '2012-10-10', 3004, 5006),
10 (70003, 2480.40, '2012-10-10', 3009, 5003),
11 (70012, 250.45, '2012-06-27', 3008, 5002),
12 (70011, 75.29, '2012-08-17', 3003, 5007),
13 (70013, 3045.60, '2012-04-25', 3002, 5001);
```

* ord_no int	purch_amt decimal(10,2)	ord_date date	customer_id int	salesman_id int
70001	150.50	2012-10-05	3005	5002
70002	65.26	2012-10-05	3002	5001
70003	2480.40	2012-10-10	3009	5003
70004	110.50	2012-08-17	3009	5003
70005	2400.60	2012-07-27	3007	5001
70007	948.50	2012-09-10	3005	5002
70008	5760.00	2012-09-10	3002	5001
70009	270.65	2012-09-10	3001	5005
70010	1983.43	2012-10-10	3004	5006
70011	75.29	2012-08-17	3003	5007
70012	250.45	2012-06-27	3008	5002
70013	3045.60	2012-04-25	3002	5001



```
1 CREATE TABLE Company (
2     COM_ID INT PRIMARY KEY,
3     COM_NAME VARCHAR(50)
4 );
```



```
1 INSERT INTO Company (COM_ID, COM_NAME) VALUES
2 (11, 'Samsung'),
3 (12, 'iBall'),
4 (13, 'Epsion'),
5 (14, 'Zebronics'),
6 (15, 'Asus'),
7 (16, 'Frontech');
```

* COM_ID int	COM_NAME varchar(50)
11	Samsung
12	iBall
13	Epsion
14	Zebronics
15	Asus
16	Frontech

```

1 CREATE TABLE Item (
2     PRO_ID INT PRIMARY KEY,
3     PRO_NAME VARCHAR(50),
4     PRO_PRICE DECIMAL(10, 2),
5     COM_ID INT,
6     FOREIGN KEY (COM_ID) REFERENCES Company(COM_ID)
7 );

```

```

1 INSERT INTO Item (PRO_ID, PRO_NAME, PRO_PRICE, COM_ID) VALUES
2 (101, 'Mother Board', 3200, 15),
3 (102, 'Key Board', 450, 16),
4 (103, 'ZIP drive', 250, 14),
5 (104, 'Speaker', 550, 16),
6 (105, 'Monitor', 5000, 11),
7 (106, 'DVD drive', 900, 12),
8 (107, 'CD drive', 800, 12),
9 (108, 'Printer', 2600, 13),
10 (109, 'Refill cartridge', 350, 13),
11 (110, 'Mouse', 250, 12);
12

```

* PRO_ID int	PRO_NAME varchar(50)	PRO_PRICE decimal(10,2)	COM_ID int
101	Mother Board	3200.00	15
102	Key Board	450.00	16
103	ZIP drive	250.00	14
104	Speaker	550.00	16
105	Monitor	5000.00	11
106	DVD drive	900.00	12
107	CD drive	800.00	12
108	Printer	2600.00	13
109	Refill cartridge	350.00	13
110	Mouse	250.00	12