```
Salesman
create table salesman(
salesman id int primary key,
name VARCHAR(50),
city VARCHAR(50),
commision decimal(4,2)
insert into salesman (salesman id, name, city, commision) values (5001, 'James Hoog', 'New
York', 0.15);
insert into salesman (salesman id, name, city, commision) values (5002, 'Nail Knit', 'Paris',
0.13);
insert into salesman (salesman id, name, city, commision) values (5005, 'Pit Alex', 'London',
0.11);
insert into salesman (salesman id, name, city, commision) values (5006, 'Mc Lyon ','Paris ',
0.14);
insert into salesman (salesman_id, name, city, commision) values (5007, 'Paul Adam', 'Rome',
0.13);
insert into salesman (salesman_id, name, city, commision) values (5003, 'Lauson Hen', 'San
Jos',
       0.12);
USE [assignment_tatvasoft]
GO
USE [assignment_tatvasoft]
GO
SELECT [salesman_id]
   ,[name]
   ,[city]
   ,[commision]
 FROM [dbo].[salesman]
GO
customer
create table customer(
customer_id int primary key,
cust name VARCHAR(50),
```

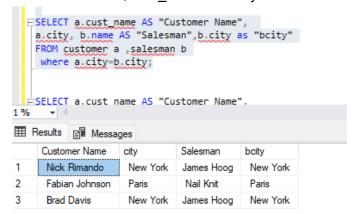
city VARCHAR(50),

```
grade int,
salesman_id int,
       CONSTRAINT "FK Orders salesman" FOREIGN KEY
              "salesman id"
       ) REFERENCES "dbo"."salesman" (
              "salesman id"
       )
)
insert into customer (customer id, cust name, city, grade, salesman id) values (3002, 'Nick
Rimando ',' New York ', 100,
                                 5001);
insert into customer (customer id, cust name, city, grade, salesman id) values (3007, 'Brad
Davis ',' New York ', 200,
                               5001);
insert into customer (customer_id, cust_name, city, grade,salesman_id) values (3005, 'Graham
Zusi ',' California', 200,
                            5002);
insert into customer (customer_id, cust_name, city, grade,salesman_id) values (3008, 'Julian
Green ',' London ', 300,
                              5002);
insert into customer (customer id, cust name, city, grade, salesman id) values (3004, 'Fabian
Johnson',' Paris ', 300,
                             5006);
insert into customer (customer id, cust name, city, grade, salesman id) values (3009, 'Geoff
Cameron ',' Berlin ', 100,
                              5003);
insert into customer (customer_id, cust_name, city, grade,salesman_id) values (3003, ' Jozy
Altidor ',' Moscow ', 200,
                              5007);
insert into customer (customer_id, cust_name, city, grade,salesman_id) values (3001, 'Brad
Guzan ',' London ', 100 ,
                                 5005);
SELECT [customer_id]
   ,[cust_name]
   ,[city]
   ,[grade]
   ,[salesman id]
 FROM [dbo].[customer]
GO
Orders
CREATE TABLE "Orders" (
       ord no INT primary key,
       purch amt DECIMAL(6,2),
       ord date DATE,
```

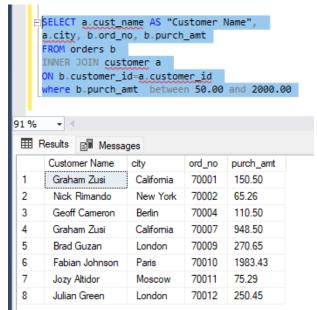
```
customer id INT.
      salesman_id INT
       CONSTRAINT "FK Orders Customers" FOREIGN KEY
              "customer id"
      ) REFERENCES "dbo"."customer" (
              "customer id"
       CONSTRAINT "FK salesman" FOREIGN KEY
              "salesman id"
      ) REFERENCES "dbo"."salesman" (
              "salesman id"
      )
GO
insert into orders (ord no, purch amt, ord date, customer id,salesman id) values (70001,
150.5 , '2012-10-05' , 3005 ,
                                 5002):
insert into orders (ord_no, purch_amt, ord_date, customer_id,salesman_id) values (70009 ,
270.65 , '2012-09-10' , 3001 ,
                                 5005):
insert into orders (ord no, purch amt, ord date, customer id, salesman id) values (70002,
65.26 , '2012-10-05' , 3002 ,
                                 5001);
insert into orders (ord no, purch amt, ord date, customer id,salesman id) values (70004,
110.5 , '2012-08-17' , 3009 ,
                                 5003);
insert into orders (ord no, purch amt, ord date, customer id,salesman id) values (70007,
948.5 , '2012-09-10' , 3005 ,
                                 5002):
insert into orders (ord_no, purch_amt, ord_date, customer_id,salesman_id) values (70005,
2400.6 , '2012-07-27' , 3007 ,
                                  5001);
insert into orders (ord no, purch amt, ord date, customer id, salesman id) values (70008,
      , '2012-09-10' , 3002 ,
                                 5001);
insert into orders (ord no, purch amt, ord date, customer id, salesman id) values (70010,
1983.43 , '2012-10-10' , 3004 ,
                                  5006);
insert into orders (ord no, purch amt, ord date, customer id, salesman id) values (70003,
2480.4 , '2012-10-10' , 3009 ,
                                  5003):
insert into orders (ord no, purch amt, ord date, customer id,salesman id) values (70012,
250.45 , '2012-06-27' , 3008 ,
                                  5002);
insert into orders (ord no, purch amt, ord date, customer id,salesman id) values (70011,
75.29 , '2012-08-17' , 3003 ,
                                 5007);
insert into orders (ord no, purch amt, ord date, customer id, salesman id) values (70013,
3045.6 , '2012-04-25' , 3002 ,
                                  5001)
```

```
USE [assignment_tatvasoft]
GO
SELECT [ord_no]
,[purch_amt]
,[ord_date]
,[customer_id]
,[salesman_id]
FROM [dbo].[Orders]
GO
```

1. write a SQL query to find the salesperson and customer who reside in the same city. Return Salesman, cust_name and city



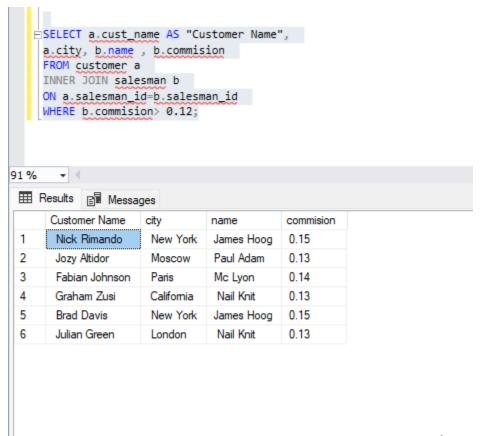
2. write a SQL query to find those orders where the order amount exists between 500 and 2000. Return ord_no, purch_amt, cust_name, city



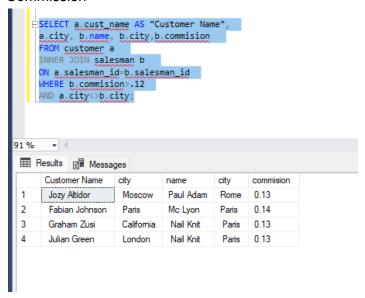
3. write a SQL query to find the salesperson(s) and the customer(s) he represents. Return Customer Name, city, Salesman, commission



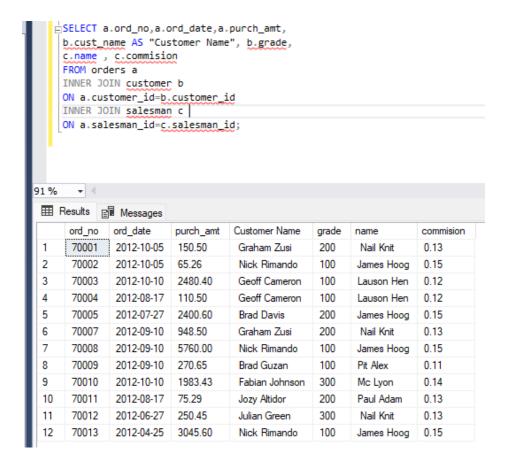
4. write a SQL query to find salespeople who received commissions of more than 12 percent from the company. Return Customer Name, customer city, Salesman, Commission.



5. write a SQL query to locate those salespeople who do not live in the same city where their customers live and have received a commission of more than 12% from the company. Return Customer Name, customer city, Salesman, salesman city, Commission

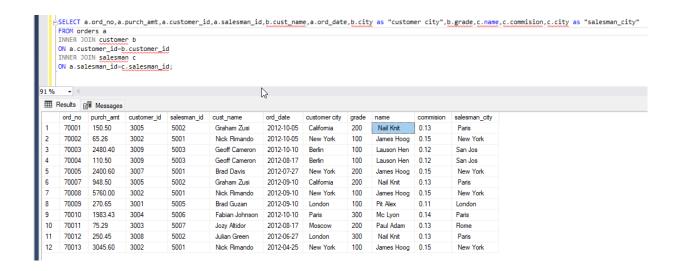


6. write a SQL query to find the details of an order. Return ord_no, ord_date, purch_amt, Customer Name, grade, Salesman, commission

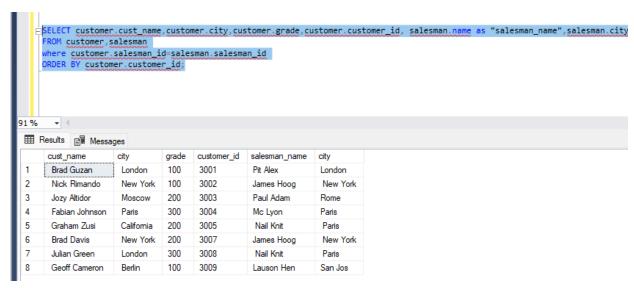


7. Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned.

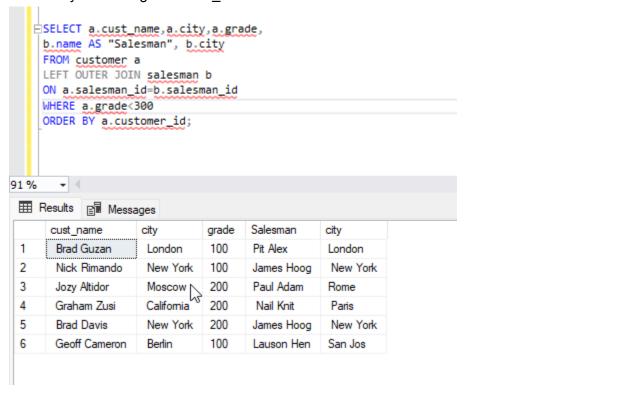
SELECT a.ord_no,a.purch_amt,a.customer_id,a.salesman_id,b.cust_name,a.ord_date,b.city as "customer city",b.grade,c.name,c.commision,c.city as "salesman_city"
FROM orders a
INNER JOIN customer b
ON a.customer_id=b.customer_id
INNER JOIN salesman c
ON a.salesman id=c.salesman id;



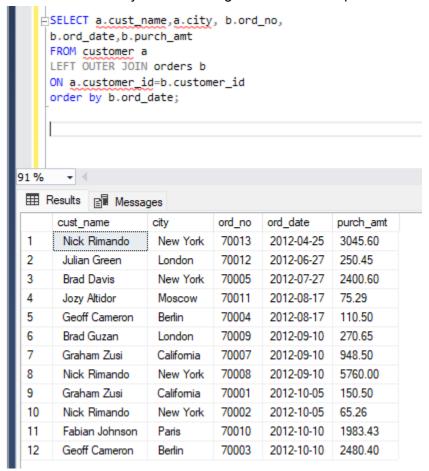
8. write a SQL query to display the customer name, customer city, grade, salesman, salesman city. The results should be sorted by ascending customer_id. SELECT customer.cust_name,customer.city,customer.grade,customer.customer_id, salesman.name as "salesman_name",salesman.city FROM customer,salesman where customer.salesman_id=salesman.salesman_id ORDER BY customer.customer_id;



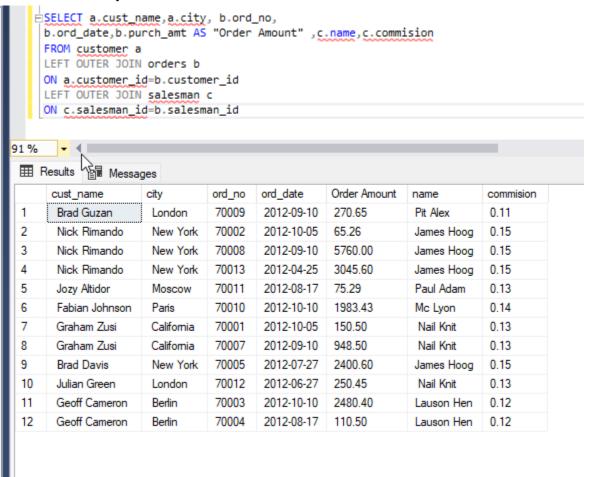
9. write a SQL query to find those customers with a grade less than 300. Return cust_name, customer city, grade, Salesman, salesmancity. The result should be ordered by ascending customer_id.



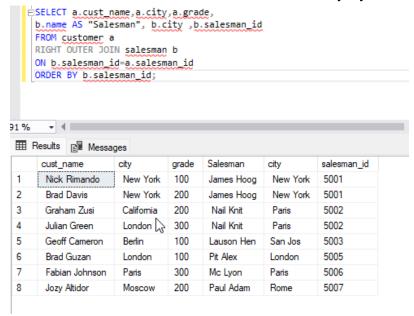
10. Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order date to determine whether any of the existing customers have placed an order or not



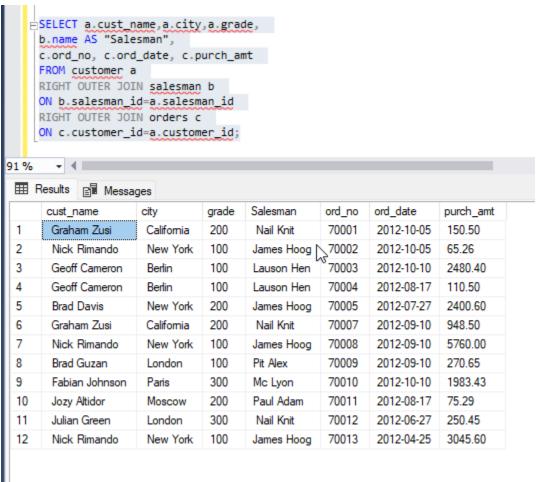
11. Write a SQL statement to generate a report with customer name, city, order number, order date, order amount, salesperson name, and commission to determine if any of the existing customers have not placed orders or if they have placed orders through their salesman or by themselves



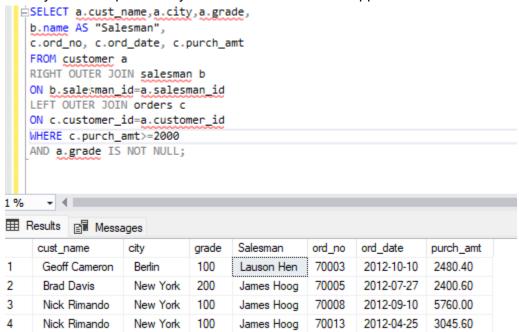
12. Write a SQL statement to generate a list in ascending order of salespersons who work either for one or more customers or have not yet joined any of the customers



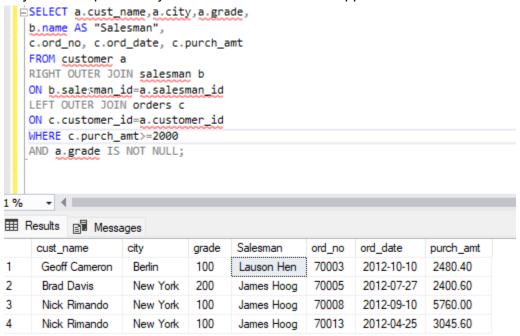
13. write a SQL query to list all salespersons along with customer name, city, grade, order number, date, and amount.



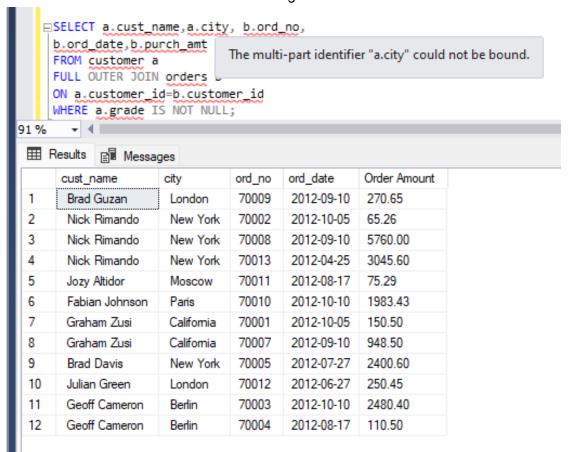
14. Write a SQL statement to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.



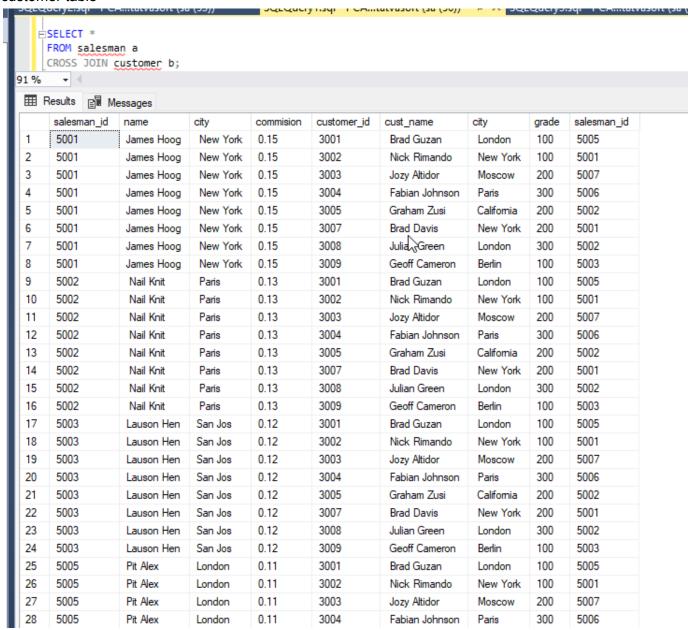
15. Write a SQL statement to generate a list of all the salesmen who either work for one or more customers or have yet to join any of them. The customer may have placed one or more orders at or above order amount 2000, and must have a grade, or he may not have placed any orders to the associated supplier.



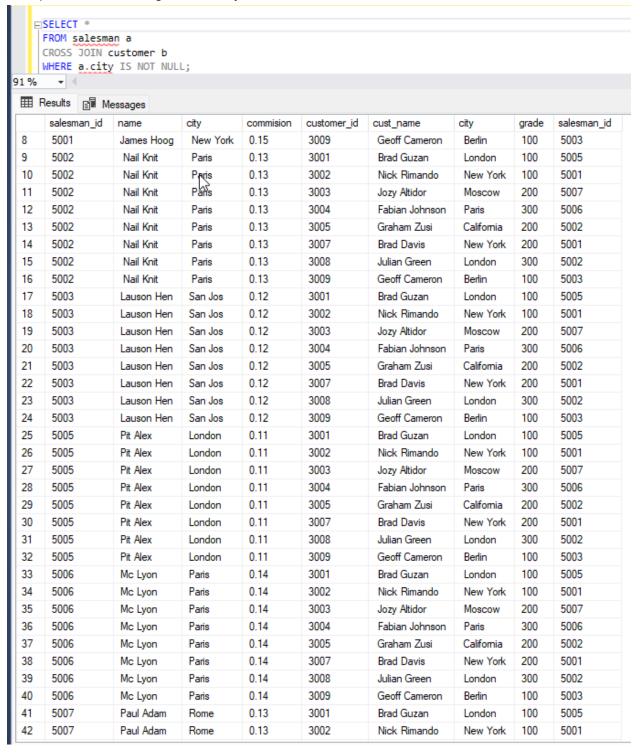
16. Write a SQL statement to generate a report with the customer name, city, order no. order date, purchase amount for only those customers on the list who must have a grade and placed one or more orders or which order(s) have been placed by the customer who neither is on the list nor has a grade.



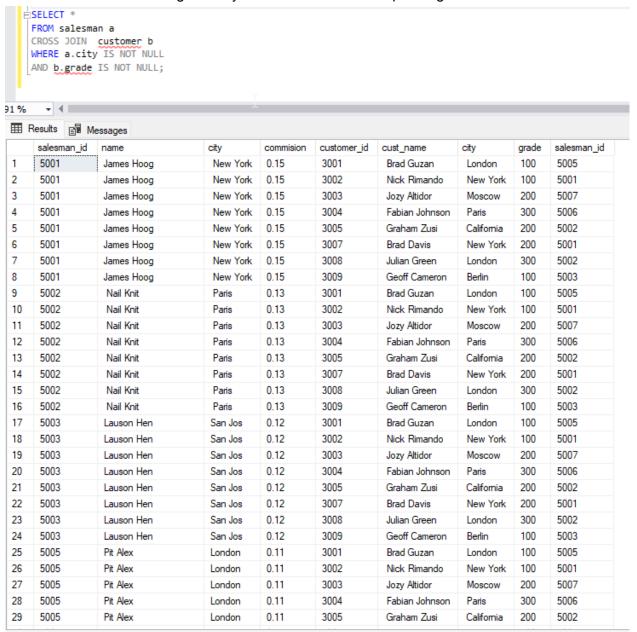
17. Write a SQL query to combine each row of the salesman table with each row of the customer table



18. Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for all customers and vice versa for that salesperson who belongs to that city



19. Write a SQL statement to create a Cartesian product between salesperson and customer, i.e. each salesperson will appear for every customer and vice versa for those salesmen who belong to a city and customers who require a grade



20. Write a SQL statement to make a Cartesian product between salesman and customer i.e. each salesman will appear for all customers and vice versa for those salesmen who must belong to a city which is not the same as his customer and the customers should have their own grade

```
⊟SELECT *
    FROM salesman a
    CROSS JOIN customer b
    WHERE a.city IS NOT NULL
    AND b.grade IS NOT NULL
         a.city<>b.city;
■ Results   Messages
     salesman_id
                    name
                                  city
                                               commision
                                                            customer_id
                                                                          cust_name
                                                                                            city
                                                                                                         grade
                                                                                                                  salesman id
      5001
                    James Hoog
                                   New York
                                                0.15
                                                             3001
                                                                           Brad Guzan
                                                                                                          100
                                                                                                                  5005
1
                                                                                             London
2
      5001
                                                             3003
                                                                                                                  5007
                    James Hoog
                                   New York
                                                0.15
                                                                           Jozy Altidor
                                                                                             Moscow
                                                                                                          200
3
      5001
                    James Hoog
                                                0.15
                                                             3004
                                                                           Fabian Johnson
                                                                                                                  5006
                                   New York
                                                                                             Paris
                                                                                                          300
4
                                                             3005
                                                                                                                  5002
      5001
                    James Hoog
                                   New York
                                                0.15
                                                                           Graham Zusi
                                                                                             California
                                                                                                          200
5
      5001
                    James Hoog
                                    New York
                                                0.15
                                                             3008
                                                                           Julian Green
                                                                                              London
                                                                                                          300
                                                                                                                  5002
3
      5001
                    James Hoog
                                    New York
                                                0.15
                                                             3009
                                                                           Geoff Cameron
                                                                                              Berlin
                                                                                                          100
                                                                                                                  5003
7
      5002
                     Nail Knit
                                    Paris
                                                0.13
                                                             3001
                                                                           Brad Guzan
                                                                                                                  5005
                                                                                              London
                                                                                                          100
3
                     Nail Knit
                                                             3002
                                                                           Nick Rimando
                                                                                                                  5001
      5002
                                    Paris
                                                0.13
                                                                                              New York
                                                                                                          100
                                                                           Jozy Altidor
                                                                                              Moscow
9
      5002
                     Nail Knit
                                    Paris
                                                0.13
                                                             3003
                                                                                                          200
                                                                                                                  5007
10
      5002
                     Nail Knit
                                    Paris
                                                0.13
                                                             3005
                                                                           Graham Zusi
                                                                                             California
                                                                                                          200
                                                                                                                  5002
                                                                           Brad Davis
11
      5002
                     Nail Knit
                                    Paris
                                                0.13
                                                             3007
                                                                                              New York
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                                                             3008
12
      5002
                     Nail Knit
                                    Paris
                                                0.13
                                                                           Julian Green
                                                                                                          300
                                                                                                                  5002
                                                                                              London
13
      5002
                     Nail Knit
                                    Paris
                                                0.13
                                                             3009
                                                                           Geoff Cameron
                                                                                              Berlin
                                                                                                          100
                                                                                                                  5003
14
      5003
                    Lauson Hen
                                   San Jos
                                                0.12
                                                             3001
                                                                           Brad Guzan
                                                                                              London
                                                                                                          100
                                                                                                                  5005
15
      5003
                                                0.12
                                                             3002
                                                                           Nick Rimando
                                                                                              New York
                                                                                                                  5001
                    Lauson Hen
                                   San Jos
                                                                                                          100
                                                             3003
                                                                                                                  5007
16
      5003
                    Lauson Hen
                                   San Jos
                                                0.12
                                                                           Jozy Altidor
                                                                                              Moscow
                                                                                                          200
17
      5003
                    Lauson Hen
                                   San Jos
                                                0.12
                                                             3004
                                                                           Fabian Johnson
                                                                                              Paris
                                                                                                          300
                                                                                                                  5006
18
                                                0.12
                                                             3005
                                                                           Graham Zusi
                                                                                                          200
                                                                                                                  5002
      5003
                    Lauson Hen
                                   San Jos
                                                                                             California
                                                             3007
                                                                                              New York
19
      5003
                                                0.12
                                                                           Brad Davis
                                                                                                                  5001
                    Lauson Hen
                                   San Jos
                                                                                                          200
20
      5003
                                                0.12
                                                             3008
                                                                           Julian Green
                                                                                                          300
                                                                                                                  5002
                    Lauson Hen
                                   San Jos
                                                                                              London
21
                                                             3009
                                                                           Geoff Cameron
                                                                                              Berlin
      5003
                    Lauson Hen
                                   San Jos
                                                0.12
                                                                                                          100
                                                                                                                  5003
22
      5005
                    Pit Alex
                                   London
                                                0.11
                                                             3001
                                                                           Brad Guzan
                                                                                              London
                                                                                                          100
                                                                                                                  5005
23
      5005
                    Pit Alex
                                   London
                                                0.11
                                                             3002
                                                                           Nick Rimando
                                                                                              New York
                                                                                                          100
                                                                                                                  5001
                                                             3003
                                                                           Jozy Altidor
                                                                                                                  5007
24
      5005
                    Pit Alex
                                   London
                                                0.11
                                                                                              Moscow
                                                                                                          200
25
      5005
                    Pit Alex
                                                0.11
                                                             3004
                                                                           Fabian Johnson
                                                                                              Paris
                                                                                                          300
                                                                                                                  5006
                                   London
      5005
                    Pit Alex
                                                             3005
                                                                           Graham Zusi
                                                                                             California
                                                                                                                  5002
26
                                   London
                                                0.11
                                                                                                          200
27
                                                             3007
      5005
                    Pit Alex
                                                0.11
                                                                           Brad Davis
                                                                                                          200
                                                                                                                  5001
                                   London
                                                                                              New York
28
      5005
                    Pit Alex
                                                0.11
                                                             3008
                                                                           Julian Green
                                                                                              London
                                                                                                          300
                                                                                                                  5002
                                   London
29
      5005
                                                             3009
                                                                           Geoff Cameron
                                                                                              Berlin
                                                                                                                  5003
                    Pit Alex
                                   London
                                                0.11
                                                                                                          100
30
      5006
                    Mc Lyon
                                   Paris
                                                0.14
                                                             3001
                                                                           Brad Guzan
                                                                                              London
                                                                                                          100
                                                                                                                  5005
31
      5006
                                                0.14
                                                             3002
                                                                           Nick Rimando
                                                                                              New York
                                                                                                                  5001
                    Mc Lyon
                                   Paris
                                                                                                          100
32
      5006
                                                             3003
                                                                           Jozy Altidor
                                                                                                                  5007
                    Mc Lyon
                                   Paris
                                                0.14
                                                                                              Moscow
                                                                                                          200
```