

Hi,

As part of your process, we have prepared a small assignment for you. If you have any questions, feel free to contact us via amos@trustedpartners.com

The Task is to be completed within five days from when you receive it.

Good luck!

Specification:

Create a server-side with API proxy with three methods which can: GET results,

(tables of agents and orders with values are attached below)

O The first method should accept parameter (year) and return The AGENT\_CODE who has the highest sum

of ADVANCE\_AMOUNT in the first quarter of the specific year sent in the parameter.

O The second method should accept two parameters first is a list (list of AGENT\_CODE) and the second is int

The method should return a list of agents with order (ORD\_NUM, ORD\_AMOUNT, ADVANCE\_AMOUNT, ORD\_DATE, CUST\_CODE, AGENT\_CODE, ORD\_DESCRIPTION)

**only One order for an agent**

(We should receive the ORD\_NUM that received Chronologically in this number)

for example, the oldest order for an agent will be 1 The second will be 2 the third 3, and so on.

If the agent list contains A004, A009 and the second parameter is 2

the results should be like the painted rows below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ORD\_NUM | ORD\_AMOUNT | ADVANCE\_AMOUNT | ORD\_DATE | CUST\_CODE | AGENT\_CODE | ORD\_DESCRIPTION |
| 201012 | 600 | 200 | 1/3/2020 | C00023 | A004 | ADR |
| 201013 | 300 | 200 | 10/2/2020 | C00023 | A004 | ADR |
| 200108 | 4000 | 600 | 2/11/2021 | C00008 | A004 | ADR |
| 200104 | 1500 | 500 | 3/13/2021 | C00006 | A004 | ADR |
| 200121 | 1500 | 600 | 3/19/2021 | C00008 | A004 | ADR |
| 200122 | 2500 | 400 | 9/17/2021 | C00003 | A004 | ADR |
| 200014 | 500 | 100 | 7/11/2020 | C00010 | A009 | ADR |
| 200115 | 900 | 700 | 12/12/2020 | C00010 | A009 | ADR |
| 200116 | 600 | 200 | 11/18/2021 | C00010 | A009 | ADR |

O The third method should accept two parameters first is a number and the Second is a year

The method should return a list of agents (AGENT\_CODE, AGENT\_NAME, PHONE\_NO) that have more or equal

of orders compared to the number in the first value, in the year given in the second value

o server-side should be built in a layered structure and result from Data-Base

should be via Stored Procedure.

o GET should return a JSON response with an array of objects.

**please note that No user interface is required**

Bonus:

protect the api with an API Key that send via Http header and with a IP allow list.

Additional notes:

Once you are done with the assignment, push your code to github and email us the link to [Amos@trustedpartners.com](mailto:Amos@trustedpartners.com) , [Ronin@trustedpartners.com](mailto:Ronin@trustedpartners.com)

Git(Hub) repo should contain a README.md with clear instructions on how to run the code with a (brief) technical overview.

CREATE TABLE AGENTS

(

AGENT\_CODE CHAR(6) NOT NULL PRIMARY KEY,

AGENT\_NAME CHAR(40),

WORKING\_AREA CHAR(35),

COMMISSION INT,

PHONE\_NO CHAR(15),

COUNTRY VARCHAR(25)

);

INSERT INTO AGENTS VALUES ('A005', 'Anderson', 'Brisban', 13, '045-21447739', '');

INSERT INTO AGENTS VALUES ('A001', 'Subbarao', 'Bangalore', 14, '077-12346674', '');

INSERT INTO AGENTS VALUES ('A002', 'Mukesh', 'Mumbai', 11, '029-12358964', '');

INSERT INTO AGENTS VALUES ('A006', 'McDen', 'London', 15, '078-22255588', '');

INSERT INTO AGENTS VALUES ('A004', 'Ivan', 'Torento', 15, '008-22544166', '');

INSERT INTO AGENTS VALUES ('A009', 'Benjamin', 'Hampshair', 11, '008-22536178', '');

INSERT INTO AGENTS VALUES ('A008', 'Alford', 'New York', 12, '044-25874365', '');

INSERT INTO AGENTS VALUES ('A011', 'Ravi Kumar', 'Bangalore', 15, '077-45625874', '');

INSERT INTO AGENTS VALUES ('A012', 'Lucida', 'San Jose', 12, '044-52981425', '');

CREATE TABLE ORDERS

(

ORD\_NUM INT NOT NULL PRIMARY KEY,

ORD\_AMOUNT FLOAT NOT NULL,

ADVANCE\_AMOUNT FLOAT NOT NULL,

ORD\_DATE DATETIME NOT NULL,

CUST\_CODE VARCHAR(6) NOT NULL,

AGENT\_CODE CHAR(6) NOT NULL,

ORD\_DESCRIPTION VARCHAR(60) NOT NULL

);

INSERT INTO ORDERS VALUES(200116, '600.00', '200.00', '11-18-2021', 'C00010', 'A009', 'ADR');

INSERT INTO ORDERS VALUES(200113, '4000.00', '600.00', '06-19-2021', 'C00022', 'A002', 'ADR');

INSERT INTO ORDERS VALUES(200102, '2000.00', '300.00', '05-05-2021', 'C00012', 'A012', 'ADR');

INSERT INTO ORDERS VALUES(200114, '3500.00', '2000.00', '08-18-2021', 'C00002', 'A008', 'ADR');

INSERT INTO ORDERS VALUES(200122, '2500.00', '400.00', '09-17-2021', 'C00003', 'A004', 'ADR');

INSERT INTO ORDERS VALUES(200118, '500.00', '100.00', '09-04-2020', 'C00023', 'A006', 'ADR');

INSERT INTO ORDERS VALUES(200121, '1500.00', '600.00', '03-19-2021', 'C00008', 'A004', 'ADR');

INSERT INTO ORDERS VALUES(200130, '2500.00', '400.00', '03-07-2021', 'C00025', 'A011', 'ADR');

INSERT INTO ORDERS VALUES(200134, '4200.00', '1800.00', '05-19-2020', 'C00004', 'A005', 'ADR');

INSERT INTO ORDERS VALUES(200108, '4000.00', '600.00', '02-11-2021', 'C00008', 'A004', 'ADR');

INSERT INTO ORDERS VALUES(200115, '900.00', '700.00', '12-12-2020', 'C00010', 'A009', 'ADR');

INSERT INTO ORDERS VALUES(200103, '1500.00', '700.00', '11-05-2021', 'C00021', 'A005', 'ADR');

INSERT INTO ORDERS VALUES(200105, '2500.00', '500.00', '11-08-2020', 'C00025', 'A011', 'ADR');

INSERT INTO ORDERS VALUES(200101, '3000.00', '1000.00', '07-15-2021', 'C00001', 'A008', 'ADR');

INSERT INTO ORDERS VALUES(200111, '1000.00', '300.00', '07-10-2021', 'C00020', 'A008', 'ADR');

INSERT INTO ORDERS VALUES(200104, '1500.00', '500.00', '03-13-2021', 'C00006', 'A004', 'ADR');

INSERT INTO ORDERS VALUES(200106, '2500.00', '700.00', '02-04-2020', 'C00005', 'A002', 'ADR');

INSERT INTO ORDERS VALUES(200125, '2000.00', '600.00', '10-10-2020', 'C00018', 'A005', 'ADR');

INSERT INTO ORDERS VALUES(200117, '800.00', '200.00', '10-11-2021', 'C00014', 'A001', 'ADR');

INSERT INTO ORDERS VALUES(200123, '500.00', '100.00', '09-12-2021', 'C00022', 'A002', 'ADR');

INSERT INTO ORDERS VALUES(200120, '500.00', '100.00', '07-06-2020', 'C00009', 'A002', 'ADR');

INSERT INTO ORDERS VALUES(200002, '1000.00', '400.00', '05-15-2022', 'C00012', 'A012', 'ADR');

INSERT INTO ORDERS VALUES(200014, '500.00', '100.00', '07-11-2020', 'C00010', 'A009', 'ADR');

INSERT INTO ORDERS VALUES(200023, '500.00', '100.00', '04-04-2021', 'C00022', 'A002', 'ADR');

INSERT INTO ORDERS VALUES(200112, '600.00', '200.00', '10-12-2020', 'C00023', 'A006', 'ADR');

INSERT INTO ORDERS VALUES(201011, '300.00', '200.00', '12-02-2020', 'C00023', 'A006', 'ADR');

INSERT INTO ORDERS VALUES(201012, '600.00', '200.00', '01-03-2020', 'C00023', 'A004', 'ADR');

INSERT INTO ORDERS VALUES(201013, '300.00', '200.00', '10-02-2020', 'C00023', 'A004', 'ADR');

INSERT INTO ORDERS VALUES(210108, '1800.00', '900.00', '12-04-2021', 'C00021', 'A005', 'ADR');

INSERT INTO ORDERS VALUES(210109, '1800.00', '500.00', '10-04-2021', 'C00021', 'A005', 'ADR');