

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');