Input

Run SQL

```
CREATE TABLE CITY (
    ID INT,
    NAME VARCHAR(17),
    COUNTRYCODE VARCHAR(3),
    DISTRICT VARCHAR(20),
    POPULATION INT
);
INSERT INTO CITY VALUES (1, 'Delhi', 'IND', 'Delhi', 123);
INSERT INTO CITY VALUES (2, 'Mumbai', 'IND', 'Maharashtra', 456);
INSERT INTO CITY VALUES (3, 'Bengaluru', 'IND', 'Karnataka', 789);

SELECT * FROM CITY;
```

Output

ID	NAME	COUNTRYCODE	DISTRICT	POPULATION
1	Delhi	IND	Delhi	123
2	Mumbai	IND	Maharashtra	456
3	Bengaluru	IND	Karnataka	789

Available Tables

CITY

ID	NAME	COUNTRYCODE	DISTRICT	POPULATIOI
1	Delhi	IND	Delhi	123
2	Mumbai	IND	Maharashtra	456
3	Bengaluru	IND	Karnataka	789

Input

Run SQL

```sql
CREATE TABLE CITY (
    ID INT,
    NAME VARCHAR(17),
    COUNTRYCODE VARCHAR(3),
    DISTRICT VARCHAR(20),
    POPULATION INT
);
INSERT INTO CITY VALUES (1, 'Delhi', 'IND', 'Delhi', 123);
INSERT INTO CITY VALUES (2, 'Mumbai', 'IND', 'Maharashtra', 456);
INSERT INTO CITY VALUES (3, 'Bengaluru', 'IND', 'Karnataka', 789);
INSERT INTO CITY VALUES (1661, 'Bengaluru', 'IND', 'Karnataka', 789);

SELECT * FROM CITY where ID=1661;
```

Output

ID	NAME	COUNTRYCODE	DISTRICT	POPULATION
1661	Bengaluru	IND	Karnataka	789

Available Tables

CITY

ID	NAME	COUNTRYCODE	DISTRICT	POPULATIC
1	Delhi	IND	Delhi	123
2	Mumbai	IND	Maharashtra	456
3	Bengaluru	IND	Karnataka	789
1661	Bengaluru	IND	Karnataka	789

Input

Run SQL

```
CREATE TABLE employee (
    employee_id INT,
    name VARCHAR(50),
    months INT,
    salary INT
);
INSERT INTO employee VALUES (12228, 'Rose', 15, 1968);
INSERT INTO employee VALUES (33645, 'Angela', 1, 3443);
INSERT INTO employee VALUES (45692, 'Frank', 17, 1608);
INSERT INTO employee VALUES (56118, 'Patrick', 7, 1345);
INSERT INTO employee VALUES (59725, 'Lisa', 11, 2330);
INSERT INTO employee VALUES (74197, 'Kimberly', 16, 4372);
INSERT INTO employee VALUES (78454, 'Bonnie', 8, 1771);
INSERT INTO employee VALUES (83565, 'Michael', 6, 2017);
INSERT INTO employee VALUES (98607, 'Todd', 5, 3396);
INSERT INTO employee VALUES (99989, 'Joe', 9, 3573);
SELECT name from Employee Order By name ASC;
```

Output

name
Angela
Bonnie
Frank
Joe
Kimberly
Lisa

Available Tables

Employee

employee_id	name	months	salary
12228	Rose	15	1968
33645	Angela	1	3443
45692	Frank	17	1608
56118	Patrick	7	1345
59725	Lisa	11	2330
74197	Kimberly	16	4372
78454	Bonnie	8	1771
83565	Michael	6	2017
98607	Todd	5	3396
99989	Joe	9	3573

Input

Run SQL

```sql
CREATE TABLE CITY (
    ID INT,
    NAME VARCHAR(17),
    COUNTRYCODE VARCHAR(3),
    DISTRICT VARCHAR(20),
    POPULATION INT
);
INSERT INTO CITY VALUES (1, 'Tokyo', 'JPN', 'Delhi', 19000000);
INSERT INTO CITY VALUES (2, 'Mumbai', 'IND', 'Maharashtra', 20400000);
INSERT INTO CITY VALUES (3, 'Osaka', 'JPN', 'Karnataka', 12300000);
INSERT INTO CITY VALUES (4, 'Kolkata', 'IND', 'West Bengal', 14900000);
INSERT INTO CITY VALUES (5, 'Kyoto', 'JPN', 'Tamil Nadu', 11000000);
SELECT * FROM CITY where COUNTRYCODE='JPN';
```

Output

ID	NAME	COUNTRYCODE	DISTRICT	POPULATION
1	Tokyo	JPN	Delhi	19000000
3	Osaka	JPN	Karnataka	12300000
5	Kyoto	JPN	Tamil Nadu	11000000

Available Tables

CITY

ID	NAME	COUNTRYCODE	DISTRICT	POPULATION
1	Tokyo	JPN	Delhi	19000000
2	Mumbai	IND	Maharashtra	20400000
3	Osaka	JPN	Karnataka	12300000
4	Kolkata	IND	West Bengal	14900000
5	Kyoto	JPN	Tamil Nadu	11000000

Input

Run SQL

```
CREATE TABLE STATION (
    ID NUMBER,
    CITY VARCHAR2(21),
    STATE VARCHAR2(2),
    LAT_N NUMBER,
    LONG_W NUMBER
);
INSERT INTO STATION VALUES (1, 'New York', 'NY', 40, 74);
INSERT INTO STATION VALUES (2, 'Los Angeles', 'CA', 34, 118);
INSERT INTO STATION VALUES (3, 'Chicago', 'IL', 41, 87);
INSERT INTO STATION VALUES (4, 'Houston', 'TX', 29, 95);
INSERT INTO STATION VALUES (5, 'Phoenix', 'AZ', 33, 112);
INSERT INTO STATION VALUES (6, 'Chicago', 'IL', 41, 87);
SELECT CITY, STATE FROM STATION WHERE LAT_N > 0 AND LONG_W > 0;
```

Output

CITY	STATE
New York	NY
Los Angeles	CA
Chicago	IL
Houston	TX
Phoenix	AZ
Chicago	IL

Available Tables

STATION

ID	CITY	STATE	LAT_N	LONG_W
1	New York	NY	40	74
2	Los Angeles	CA	34	118
3	Chicago	IL	41	87
4	Houston	TX	29	95
5	Phoenix	AZ	33	112
6	Chicago	IL	41	87

Input

Run SQL

```
CREATE TABLE STATION (
    ID NUMBER,
    CITY VARCHAR2(21),
    STATE VARCHAR2(2),
    LAT_N NUMBER,
    LONG_W NUMBER
);
INSERT INTO STATION VALUES (1, 'New York', 'NY', 40, 74);
INSERT INTO STATION VALUES (2, 'Los Angeles', 'CA', 34, 118);
INSERT INTO STATION VALUES (3, 'Chicago', 'IL', 41, 87);
INSERT INTO STATION VALUES (4, 'Houston', 'TX', 29, 95);
INSERT INTO STATION VALUES (5, 'Phoenix', 'AZ', 33, 112);
INSERT INTO STATION VALUES (6, 'Chicago', 'IL', 41, 87);
SELECT DISTINCT CITY FROM STATION WHERE ID%2 = 0 AND LAT_N > 0 AND LONG_W > 0;
```

Output

CITY
Los Angeles
Houston
Chicago

Available Tables

STATION

ID	CITY	STATE	LAT_N	LONG_W
1	New York	NY	40	74
2	Los Angeles	CA	34	118
3	Chicago	IL	41	87
4	Houston	TX	29	95
5	Phoenix	AZ	33	112
6	Chicago	IL	41	87

Input

Run SQL

```
drop table STATION;
CREATE TABLE STATION (
    ID NUMBER,
    CITY VARCHAR2(21),
    STATE VARCHAR2(2),
    LAT_N NUMBER,
    LONG_W NUMBER
);
INSERT INTO STATION VALUES (1, 'New York', 'NY', 40, 74);
INSERT INTO STATION VALUES (2, 'Los Angeles', 'CA', 34, 118);
INSERT INTO STATION VALUES (3, 'Chicago', 'IL', 41, 87);
INSERT INTO STATION VALUES (4, 'Houston', 'TX', 29, 95);
INSERT INTO STATION VALUES (5, 'Phoenix', 'AZ', 33, 112);
INSERT INTO STATION VALUES (6, 'Chicago', 'IL', 41, 87);
SELECT COUNT(CITY) - COUNT(DISTINCT CITY) AS CITY_NAME_DIFFERENCE FROM STATION WHERE LAT_N >
0 AND LONG_W > 0;
```

Output

CITY_NAME_DIFFERENCE
1

Available Tables

STATION

ID	CITY	STATE	LAT_N	LONG_W
1	New York	NY	40	74
2	Los Angeles	CA	34	118
3	Chicago	IL	41	87
4	Houston	TX	29	95
5	Phoenix	AZ	33	112
6	Chicago	IL	41	87

Input

Run SQL

Available Tables

```
    CITY VARCHAR2(21),
    STATE VARCHAR2(2),
    LAT_N NUMBER,
    LONG_W NUMBER
);
INSERT INTO STATION VALUES (1, 'New York', 'NY', 40, 74);
INSERT INTO STATION VALUES (2, 'Los Angeles', 'CA', 34, 118);
INSERT INTO STATION VALUES (3, 'Chicago', 'IL', 41, 87);
INSERT INTO STATION VALUES (4, 'Houston', 'TX', 29, 95);
INSERT INTO STATION VALUES (5, 'Phoenix', 'AZ', 33, 112);
INSERT INTO STATION VALUES (6, 'Chicago', 'IL', 41, 87);
SELECT CITY, LENGTH(CITY) AS LENGTH
FROM STATION
WHERE LAT_N > 0 AND LONG_W > 0
ORDER BY LENGTH(CITY) DESC, CITY
```

STATION

ID	CITY	STATE	LAT_N	LONG_W
1	New York	NY	40	74
2	Los Angeles	CA	34	118
3	Chicago	IL	41	87
4	Houston	TX	29	95
5	Phoenix	AZ	33	112
6	Chicago	IL	41	87

Output

CITY	LENGTH
Los Angeles	11
New York	8
Chicago	7
Chicago	7
Houston	7
Phoenix	7

Input

Run SQL

```
CREATE TABLE CITY (
    ID NUMBER,
    NAME VARCHAR2(17),
    COUNTRYCODE VARCHAR2(3),
    DISTRICT VARCHAR2(20),
    POPULATION NUMBER
);
INSERT INTO CITY VALUES (1, 'New York', 'USA', 'New York', 8008278);
INSERT INTO CITY VALUES (2, 'Los Angeles', 'USA', 'California', 3694820);
INSERT INTO CITY VALUES (3, 'Chicago', 'USA', 'Illinois', 2896016);
INSERT INTO CITY VALUES (4, 'Houston', 'USA', 'Texas', 1953631);
INSERT INTO CITY VALUES (5, 'Phoenix', 'USA', 'Arizona', 1321045);
INSERT INTO CITY VALUES (6, 'San Diego', 'USA', 'California', 1223400);
SELECT FLOOR(AVG(POPULATION)) AS AVERAGE_POPULATION
FROM CITY;
```

Output

AVERAGE_POPULATION
3182865

Available Tables

CITY

ID	NAME	COUNTRYCODE	DISTRICT	POPULATION
1	New York	USA	New York	8008278
2	Los Angeles	USA	California	3694820
3	Chicago	USA	Illinois	2896016
4	Houston	USA	Texas	1953631
5	Phoenix	USA	Arizona	1321045
6	San Diego	USA	California	1223400

Input

Run SQL

```
INSERT INTO CITY VALUES (2, 'Los Angeles', 'USA', 'California', 3980400);
INSERT INTO CITY VALUES (3, 'Mumbai', 'IND', 'Maharashtra', 12478447);
INSERT INTO CITY VALUES (4, 'Delhi', 'IND', 'Delhi', 11007835);
INSERT INTO CITY VALUES (5, 'Sao Paulo', 'BRA', 'Sao Paulo', 12252023);
INSERT INTO CITY VALUES (6, 'Rio de Janeiro', 'BRA', 'Rio', 6748000);
SELECT
    continent.CONTINENT,
    FLOOR(AVG(city.POPULATION)) AS AVG_CITY_POPULATION
FROM
    CITY AS city
JOIN
    COUNTRY AS continent
ON
    city.COUNTRYCODE = continent.CODE
GROUP BY
    continent.CONTINENT;
```

Output

CONTINENT	AVG_CITY_POPULATION
Asia	11743141
North America	6200000
South America	9500011

Available Tables

CITY

ID	NAME	COUNTRYCODE	DISTRICT	POPULATIOI
1	New York	USA	New York	8419600
2	Los Angeles	USA	California	3980400
3	Mumbai	IND	Maharashtra	12478447
4	Delhi	IND	Delhi	11007835
5	Sao Paulo	BRA	Sao Paulo	12252023
6	Rio de Janeiro	BRA	Rio	6748000

COUNTRY

CODE	NAME	CONTINENT	REGION	SURFACEAREA
USA	United States	North America	Northern America	9833517
IND	India	Asia	Southern Asia	3287263
BRA	Brazil	South America	South America	8515767