

## Case Study

You have details of some companies that trade internationally and strengthen the economy of their countries. You know the nationality of each company and have a list of trades between various companies. Your task is to generate a summary that consists of sums of the values goods imported and exported by every company. Note that when a company buys a good, it contributes to its countries total import and when a company sells a good, it contributes to its countries total export.

Given two tables: companies and trades, with the following structures

```
create table companies (  
    name varchar (30) not null,  
    country varchar (30) not null,  
    unique (name)  
);
```

```
create table trades (  
    id integer not null,  
    seller varchar (30) not null,  
    buyer varchar (30) not null,  
    value integer not null,  
    unique (id)  
);
```

A row in the table companies contains the name of a company and the name of the nationality of the company. A row in in the table trades contains the unique ID of the trade, the name of the selling company, the name of the buying company and the value of the traded goods.

Write an SQL query that returns a table consisting of three columns, country, export, import, which contain the sums of the values of the exported (sold to other countries) and imported (purchased from other countries) goods for every country. Each country should appear in this table. The result table should be sorted increasingly by country.

For example, for:

companies:

Name	country
Alice s.p.	Wonderland
Y-zap	Wonderland
Absolute	Mathlands
Arcus t.g.	Mathlands
Lil Mermaid	Underwater Kingdom
None at all	Nothingland

trades:

Id	Seller	Buyer	Value
20121107	Lil Mermaid	Alice s.p.	10
20123112	Arcus t.g.	Y-zap	30
20120125	Alice s.p.	Arcus t.g.	100
20120216	Lil Mermaid	Absolute	30
20120217	Lil Mermaid	Absolute	50

your query should return:

country	export	import
Mathlands	30	180
Nothingland	0	0
Underwater Kingdom	90	0
Wonderland	100	40

Assume that:

- There is no trade between companies within a single country;
- Every company in the table trades also appears in the table companies;
- Every company appears in table companies exactly once.