Assignment #3 (Due 8th Sept 2020)

Unnesting Aggregates

product(pname,price,cid)
company(cid,cname,city)

Find the number of companies in each city

```
SELECT DISTINCT X.city (SELECT count(*)

FROM company Y

WHERE X.city=Y.city)

FROM company Y
```

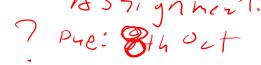
```
SELECT city, count(*)
FROM company
GROUP BY city
```

Note:

No need for DISTINCT (DISTINCT is same as GROUP BY)

Equivalent Queries

Are they?



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Grouping vs nested Queries

purchase(pid,product,quantity,price,cid)

```
SELECT product, sum(quantity) AS totalSales
FROM purchase
WHERE price > 1
GROUP BY product
```

```
SELECT DISTINCT X.product (SELECT SUM(Y.quantity)

FROM purchase Y

WHERE X.product=Y.product

AND Y.price > 1 AS totalSales

FROM purchase Y

WHERE X.price > 1

Why twice?
```