Q. What is the usefulness of this analysis? How would it benefit Penguin, LLC?

It would help to communicate the data that has been calculated or recorded by sql to non technical people. Hence it would improve the presentations or briefings in office environment where not all employees understand technical things but needs these type of information. As seen from the below sql query and result it is hard for people to understand. As IT people we have to find a way to communicate this information with non technical people and sort of create a bridge. Tableau and tools like that help us achieve that
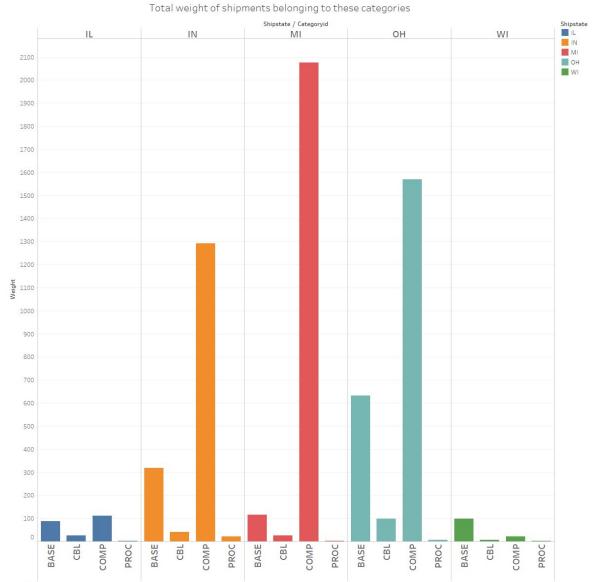
SQL script:

```
select sum (ip.weight * si.quantityshipped) as Weight , ip.categoryid , s.shipstate

from shipment s inner join shippeditem si

on s.orderid = si.orderid

inner join inventorypart ip

on ip.partnumber = si.partnumber

where (categoryid in ('COMP','CBL','BASE','PROC')) and (s.shipstate in ('IN','IL','MI','WI','OH'))

group by ip.categoryid , s.shipstate;
```

Script output:

```
  WEIGHT CATEGORYID SH
---------- ---------- --
  1568.96 COMP      OH
  20.319 PROC       IN
   7.198 CBL        WI
    2.13 PROC       IL
 1292.54 COMP       IN
   317.5 BASE       IN
   20.69 COMP       WI
   2.789 PROC       WI
  25.012 CBL        MI
  98.928 CBL        OH
  24.821 CBL        IL


  WEIGHT CATEGORYID SH
---------- ---------- --
   6.189 PROC        OH
   2.063 PROC        MI
 631.938 BASE        OH
```

39.845 CBL   IN

97.5 BASE   WI

114.313 BASE   MI

2076.33 COMP   MI

86.689 BASE   IL

111.83 COMP   IL

20 rows selected.

Tableau graphics:

Total weight of shipments belonging to these categories

Shipstate / Categoryid

Shipstate
- IL
- IN
- MI
- OH
- WI

Sum of Weight for each Categoryid broken down by Shipstate. Color shows details about Shipstate.