

# Calculator

A seller named Pia, has got an order on Amazon.com from a United States buyer Michale. Pia warehouse is in India and she now wants to process this order to United States. Pia has to select best logistics partner to ship this order to Michale. Pia has a tie up with different International logistics partners like (DHL Express, Fedex Priority, DHL Ecommerce International, DHL Ecommerce, Delhivery, UPS & India Post ).

Pia is confusing to use which logistics among them. Hence, she would like to know the cost for each logistics partner. In order to calculate the logistics partner cost she will have to include various addition components mentioned below:

- Logistics Base rate
- Fuel surcharge
- Gst
- Dtp charges
- Exchange surcharges
- Domestic shipping charges

For DHL Ecommerce and india post Actual weight should be considered and rest will the greater among volumetric and actual weight.

NOTE:

1. Calculate Volumetric Weight in Kg=  $(L*B*H)/5000$
2. Actual weight is the flat weight of the package(order).

Finally the pia wants the rate card for all the logistics which is available to the country United States.

Output format:

Logistics carrier name, Shipping price, considered weight, timeline/Duration

**Host:** kluniversity-cluster.cluster-cefcziwk2pxu.ap-south-1.rds.amazonaws.com

**User:** kluniversity

**Password:** kluniversity\_123

**Database :** exam\_database

**Tables :**

- Charges
- Logistics\_names
- Logistics\_zone
- rate\_card

Logistics\_names:

- id,logistics\_id,logistics\_name

Logistics\_zone:

- id,logistics\_id,country,zone

Rate\_card:

- id, logistics\_id,zone,weight,price

Charges:

- Id, logistics\_id, premium( % on price), fuel\_surcharges(% on price), gst(% on price), dtp\_charges(in INR), exchange\_surcharges( % on price), domestic\_shipping\_charges(in INR)

**Input :**

Destination\_country,weight,length,width,height.

Calculate the shipping rate for each logistics carrier.

### **Example**

**Input:**

Destination\_country: United States

weight(in grams): 500

length(in cms): 25

width(in cms): 26

height(in cms): 10

**Output:**

- carrier:DHL Express, price:1464.37, timeline:4 - 6 Working Days, weight\_considered:1.5 kg
- Carrier: Fedex Priority, price:1491.5, timeline:5 - 7 Working Days, weight\_considered:1.5 kg
- carrier:DHL Ecommerce International, price:1324.79, timeline:10 -12 Working Days, weight\_considered:1.3 kg
- carrier:DHL Ecommerce, price:804.59, timeline:12 - 15 Working Days, weight\_considered: 0.5kg

- carrier:Delhivery, price:1437.82, timeline:7 - 10 Working Days, weight\_considered: 1.5kg
- carrier:UPS, price:1215.12, timeline:8 -10 Working Days, weight\_considered: 1.3 kg
- carrier:Indiapost, price:495.0, timeline:15 Working Days, weight\_considered: 0.5 kg