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## Experiment 3

### 1. slicing operation

Analyze in detail sale of every product from Mumbai warehouse

```
mysql> select p.product_ID, p.name, p.cost, W.location from export_fact E, warehouse_dim W, item_dim p where E.W_D_ID = W.W_D_ID and E.product_ID = p.product_ID and W.location = 'Mumbai';
```

product_ID	name	cost	location
2	Tata AssamTea	270000	Mumbai
1	Tata GreenTea	90000	Mumbai
4	Tata LemonTea	20000	Mumbai

3 rows in set (0.01 sec)

### 2. dicing

Analyze in detail sale of Tata AssamTea from Mumbai warehouse

```
mysql> select p.product_ID, p.name, p.cost, w.location from export_fact E, warehouse_dim w, item_dim p where E.product_ID = p.product_ID and E.W_D_ID = w.W_D_ID and w.location = 'Mumbai' and p.name = 'Tata AssamTea';
```

product_ID	name	cost	location
2	Tata AssamTea	270000	Mumbai

1 row in set (0.01 sec)

### 3. roll-up

Analyze location wise sales of each product

```
mysql> select W.location, p.name , avg(E.total_cost) as Total from warehouse_dim W, item_dim p, export_fact E where W.W_D_ID = E.W_D_ID and p.product_ID = E.product_ID group by W.location,p.name;
```

location	name	Total
Delhi	Tata BlackTea	1250000.0000
Delhi	Tata GreenTea	4550000.0000
Hyderabad	Tata AssamTea	180000.0000
Hyderabad	Tata LemonTea	3000000.0000
Mumbai	Tata AssamTea	325000.0000
Mumbai	Tata GreenTea	48009000.0000
Mumbai	Tata LemonTea	50000.0000
Pune	Tata BlackTea	165000.0000

8 rows in set (0.05 sec)

### 4. drill-down

Analyze the products sold each year.

```
mysql> select p.name, p.cost, t.year from export_fact E, time_dim t, item_dim p where E.product_ID = p.product_ID and E.time_ID = t.time_ID;
```

name	cost	year
Tata GreenTea	90000	2019
Tata LemonTea	20000	2019
Tata AssamTea	270000	2020
Tata GreenTea	90000	2021
Tata BlackTea	170000	2018
Tata AssamTea	270000	2021
Tata GreenTea	90000	2021
Tata LemonTea	20000	2018
Tata BlackTea	170000	2020
Tata BlackTea	170000	2021

10 rows in set (0.00 sec)