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Lab – 2

1.Sales total w.r.t. Categories by store by day

```
select count(unit_sales) as "Total Sales", category, store_key, day_of_week
FROM (Product inner join [Sales_Fact] ON Product.product_key =
[Sales_Fact].product_key) inner join Time ON [Sales_Fact].time_key = Time.time_key
group by category, store_key, day_of_week order by store_key;
```

2.Sales Total by store by day

```
select count(unit_sales) as "Total Sales", name, day_of_week FROM (Store inner join
[Sales_Fact] ON Store.store_key = [Sales_Fact].store_key) inner join Time ON
[Sales_Fact].time_key = Time.time_key group by name, day_of_week order by name;
```

3.Sales Total of district by product by day

```
select count(unit_sales) as "Total Sales", sales_district, description day_of_week
FROM ((Product inner join [Sales_Fact] ON Product.product_key =
[Sales_Fact].product_key) inner join Store ON [Sales_Fact].store_key =
Store.store_key) inner join Time ON [Sales_Fact].time_key = Time.time_key group by
sales_district, description, day_of_week;
```

4. Sales total for a month by product by store

```
select count(unit_sales) as "Total Sales", month, description , store_key
FROM (Product inner join [Sales_Fact] ON Product.product_key =
[Sales_Fact].product_key) inner join Time ON [Sales_Fact].time_key = Time.time_key
group by month, description , store_key order by month, store_key;
```

5. Sales total for a year by product by store

```
select count(unit_sales) as "Total Sales", year, description , store_key
FROM (Product inner join [Sales_Fact] ON Product.product_key =
[Sales_Fact].product_key) inner join Time ON [Sales_Fact].time_key = Time.time_key
group by year, description , store_key order by year, description;
```

6. Sales Total by year by All stores by product

```
select count(unit_sales) as "Total Sales", year, store_key, description
FROM (Product inner join [Sales_Fact] ON Product.product_key =
[Sales_Fact].product_key) inner join Time ON [Sales_Fact].time_key = Time.time_key
group by year, store_key, description order by year, store_key;
```

7. Sales Total of category by month by district

```
select count(unit_sales) as "Total Sales", category, month, sales_district
FROM ((Product inner join [Sales_Fact] ON Product.product_key =
[Sales_Fact].product_key) inner join Store ON [Sales_Fact].store_key =
Store.store_key) inner join Time ON [Sales_Fact].time_key = Time.time_key
group by category, month, sales_district order by category, month;
```

8. Sales Total of category by store by year

```
select count(unit_sales) as "Total Sales", category, name, year FROM ((Product inner
join [Sales_Fact] ON Product.product_key = [Sales_Fact].product_key) inner join Store
ON [Sales_Fact].store_key = Store.store_key) inner join Time ON [Sales_Fact].time_key
= Time.time_key group by category, name, year order by category, name;
```

9. Sales Total of category by store by month

```
select count(unit_sales) as "Total Sales", category, name, month FROM ((Product inner
join [Sales_Fact] ON Product.product_key = [Sales_Fact].product_key) inner join Store
ON [Sales_Fact].store_key = Store.store_key) inner join Time ON [Sales_Fact].time_key
= Time.time_key group by category, name, month order by category, name;
```

10. Calculate average selling price for a given period of time.

```
select avg(dollar_sales) as "Average selling price", month FROM [Sales_Fact] inner
join Time ON [Sales_Fact].time_key = Time.time_key group by month order by month;
```