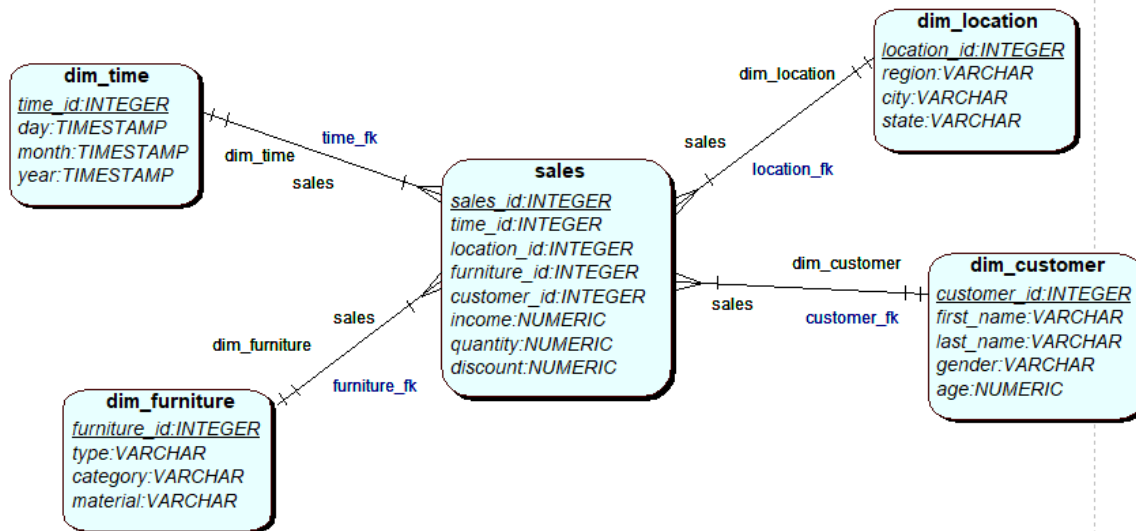


ER diagramEntity Relationship Diagram

- 1.) Find the quantity, the total income and discount with respect to each city, type of furniture and the month

```

1
2  SELECT L.city, F.type_name, T.month,
3  SUM(S.Quantity), SUM(S.Income), SUM(S.Discount)
4  from sales S, dimTime T, dimType F, dimLocation L
5  where S.time_id = T.time_id
6  and S.type_id = F.type_id
7  and S.location_id = L.location_id
8  group by L.city, F.type_name, T.month;
9

```

- 2.) Find the average quantity, income and discount with respect to each country, furniture material and year

```
1  SELECT L.state, M.material_name, T.Year,  
2  AVG(S.Quantity), AVG(S.Income), AVG(S.Discount)  
3  FROM Sales S, dimLocation L, dimTime T, dimMaterial M  
4  WHERE S.location_id = L.location_id  
5  AND S.time_id = T.time_id  
6  AND S.material_id = M.material_id  
7  GROUP BY L.state, M.material_name, T.Year
```

3.) Determine the 5 most sold furniture during the May month

```
1  select f.furniture_name, sum(s.quantity)  
2  from  
3  (select f.furniture_name, sum(s.quantity) as totalquantity,  
4   Rank() over(order by sum(s.quantity) desc)  
5   As Rank  
6   from sales s, dimFurniture f, dimTime t  
7   where  
8   s.furnitur_id = f.furnitur_id  
9   s.time_id = t.time_id  
10  t.month = 'May'  
11  group by f.furniture_name  
12 )  
13 where Rank <=5;
```