

Trace

Task 1 - DW tables - Delete Data

```
delete from rental;  
delete from categoryDim;  
delete from timedim;  
delete from province;
```

Task 2 - Delete Data from Staging Area

```
delete from StagingTable
```

Task 3 - Load Data into Staging Area

Source Stab1

SQL Command

```
select month(date) as month,  
       year(date) as year,  
       'Torino' as Province,  
       Category,  
       count(*) as numberOfRentedItems,  
       sum(cost) as netIncome  
from rental,item, itemType  
where rental.itemkey=item.itemkey  
       and item.typekey=itemtype.typekey  
group by month(date), year(date), itemtype.category;
```

Destination Staging table

localhost.DWETLStab

Table or view - fast load

Staging table

Verificare il mappings

Task 4 - Load data into time dimension

Source Stab 1:

SQL command

```
SELECT DISTINCT month(date) as month, year(date) as year, ((month(date) - 1) / 3)+1 AS  
quarter,((month(date) - 1) / 4)+1 AS fourMonth_Period  
FROM rental;
```

Destination DWETLStab

Table or view - Fast load

[dbo].[TimeDim]

Verificare il mapping - Drug and drop

Task 5 - Load data into Category Dimension

Source Stab1

SQL command

```
select distinct category from itemtype;
```

Destination DWETLStab

Table or view - Fast load

[dbo].[CategoryDim]

Verificare il mapping - Drug and drop

Task 6 - Load Data Into City Dimension

```
insert into Province (province,region) values ('Torino','Piemonte');
```

Task 7 - Load data into Fact table

Source DWETLStab

SQL Command

```
SELECT province.COD_P, TimeDim.COD_T, CategoryDim.COD_C, stagingTable.netIncome,  
stagingTable.numberRentedItems  
FROM stagingTable,Province,TimeDim,CategoryDim  
where stagingTable.province = Province.province  
and stagingTable.month = TimeDim.month  
and stagingTable.year = TimeDim.year  
and stagingTable.category=categoryDim.category;
```

Destination DWETLStab

Table or view - fast food

[dbo].[Rental]

Verificare il mapping - Drug and drop se manca qualche mapping