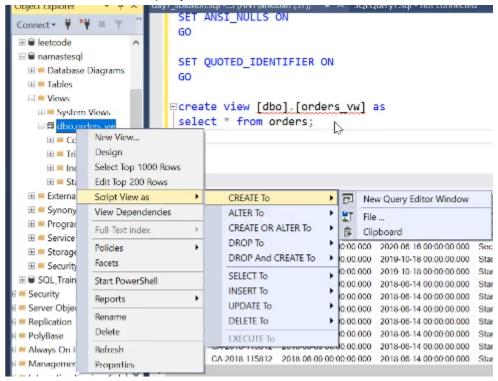
## Views

2.

1. We can create views for our SQL tables..see pic below

```
select * from orders_vw as select * from orders_vw
```

- 3. These order\_vw just contains the result of "select \* from orders" ..theres no data in this object...we can also see that in the system views..which is on our left side
- We can also see what query is in our view..



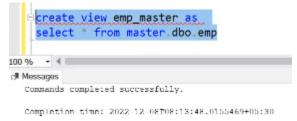
- 5. Basically views store the result of the guery inside it...
- 6. Here we have created a view..with the query below...and now we can share this view ..to our co-employers ..to check the result

```
reate view orders summary vw as select 'category' as hierarchy_type, category as hierarchy_name, sum(case when region='West' then sales end) as total_sales_west_region, sum(case when region='East' then sales end) as total_sales_east_region, null as total_sales_south_region from orders group by category union all select 'sub-categories' . sub category
```

7. Now instead of running the big query..we can just use the view

```
select * from orders_summary_vw
```

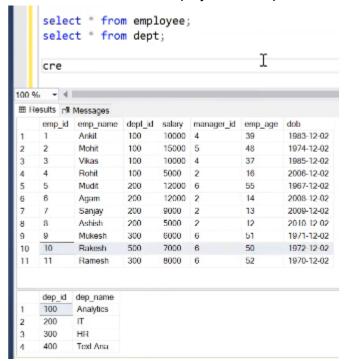
- 8. Also if u don't want to share all the data to others..for example we have 4 regions in the orders table..instead providing the entire table..we can just write a view for a particular region orders and send it to the other person
- 9. So in this way..Views can also be used to data security
- 10. To create a view for the table..which is present in another database..use this



This view will be created in the current DB

which we running this query

- 11. Referential integrity constraint
- 12. Here we have 2 tables..employee and dept..



- 13. In the employee table..we have dept\_id of 500..which is not present in the dept table...ideally every employee must belong to the id's present in the dept table..
- 14. So here dept id 500 must be an error
- 15. Here comes referential integrity constraint ...while creating a table we can give a constraint where the values of the dept\_id in new table ..must be in the value of 2nd table which is our dept table...if there's any new dept id in the new table ..which is not present in dept table..then it throws an error...we can set this constraint using RI

```
create table emp

(
emp_id integer ,
emp_name varchar(10),
dep_id int referenges dept(dep_id)
```

- 16. Here we have created our new table with RI constraint ..it says that..any value going into dep\_id of this new table...must be present in dep\_id of the dept table...or else it throws an error
- 17. And in the dept table..the dep\_id must be a primary key..in order to perform RI constraint
- 18. Now if we want to delete an dep\_id from dept table...first we have make deletion in employee table..and then we can delete the dep\_id from dept\_table
- 19. Similarly for altering the values of dept\_id in dept\_table
- 20. Here we have identity...which auto increments the particular int column..here(1-starting,1-increment)

21. Here we used identity for our id column...so when we insert values into this table..it auto increment the id column

22.