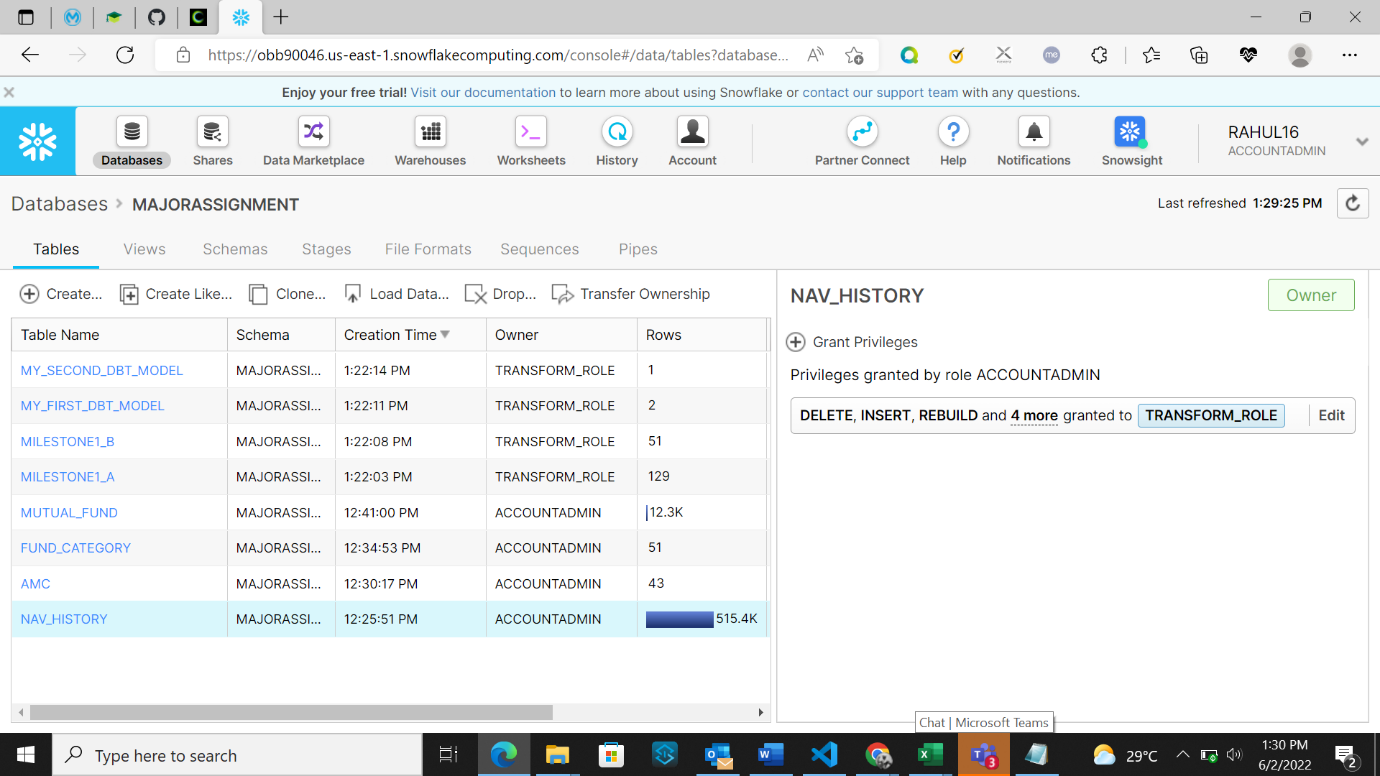
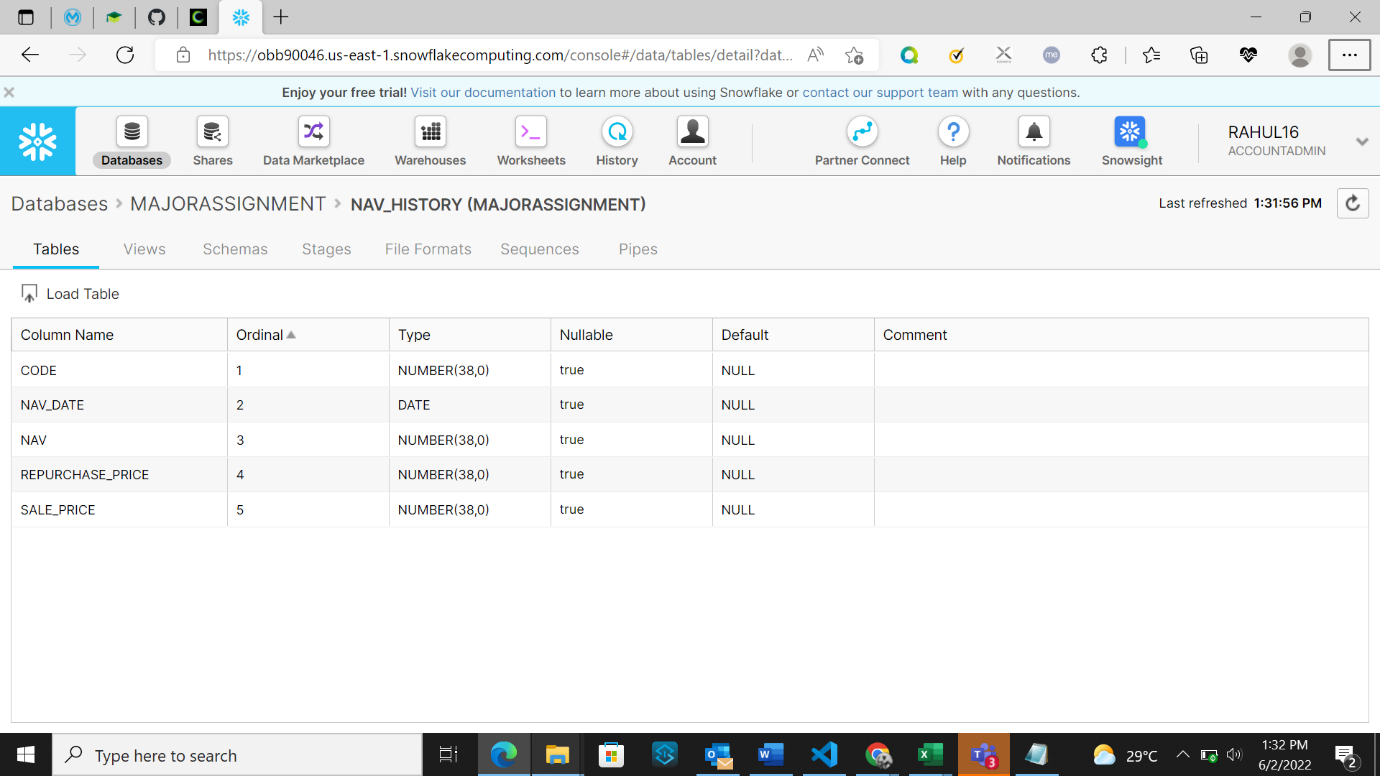
# FINAL ASSIGNMENT

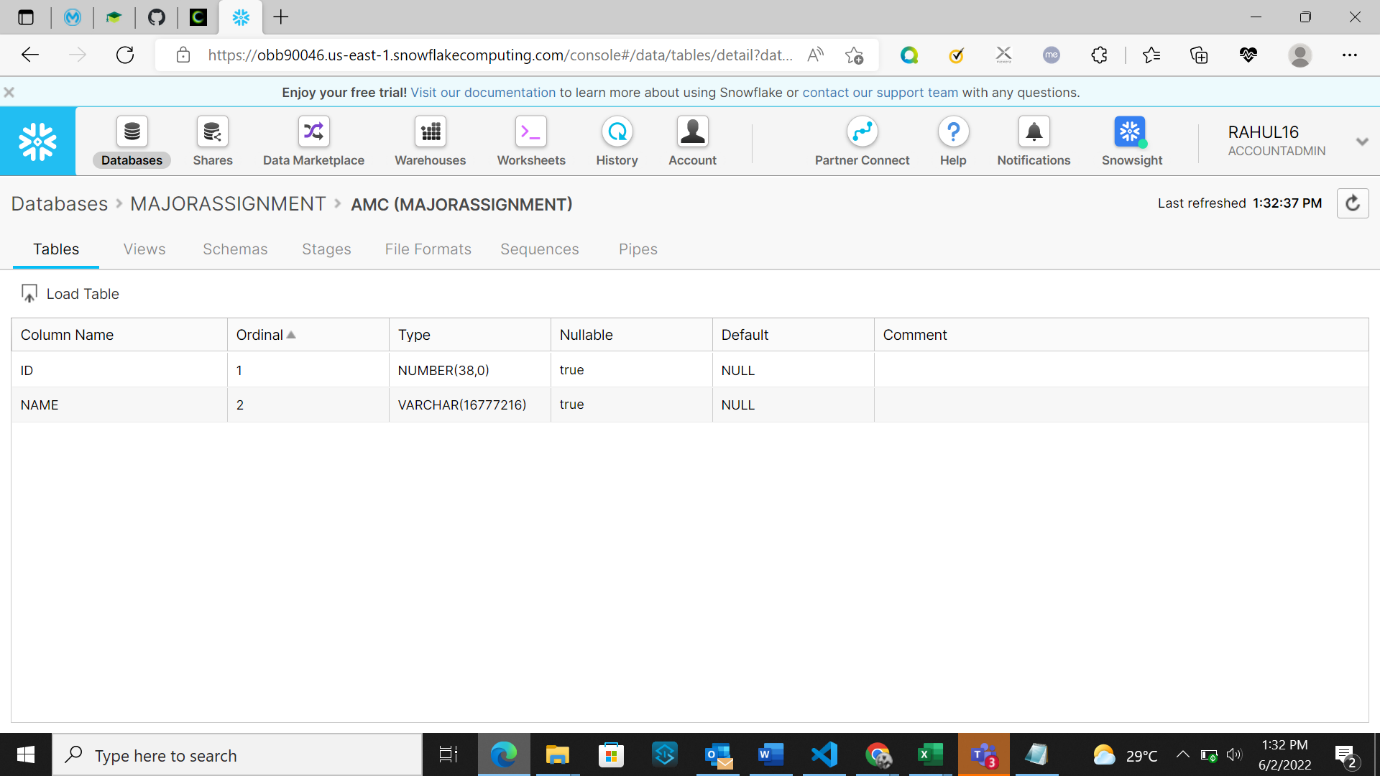
**Created database named majorassignment:**



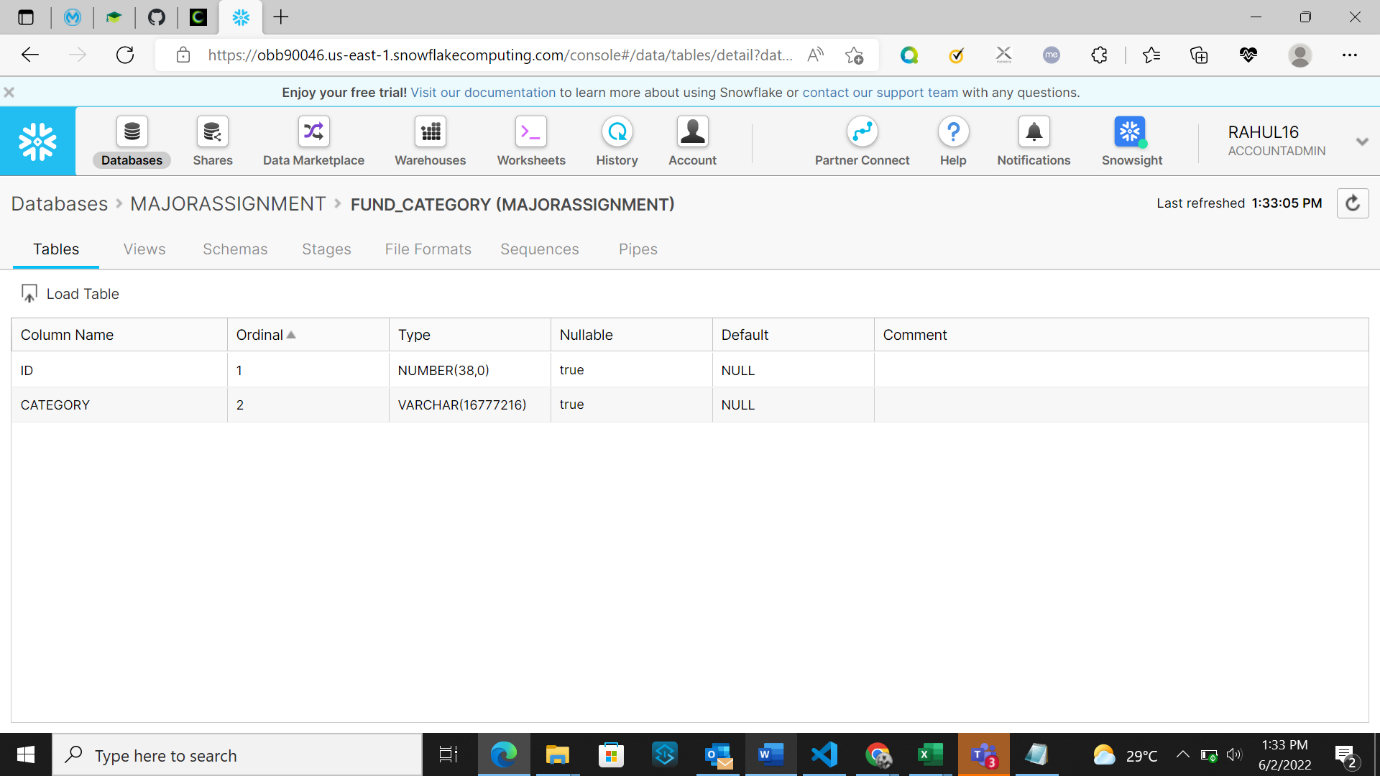
**Created Table nav\_history for loading nav\_histroy data:**



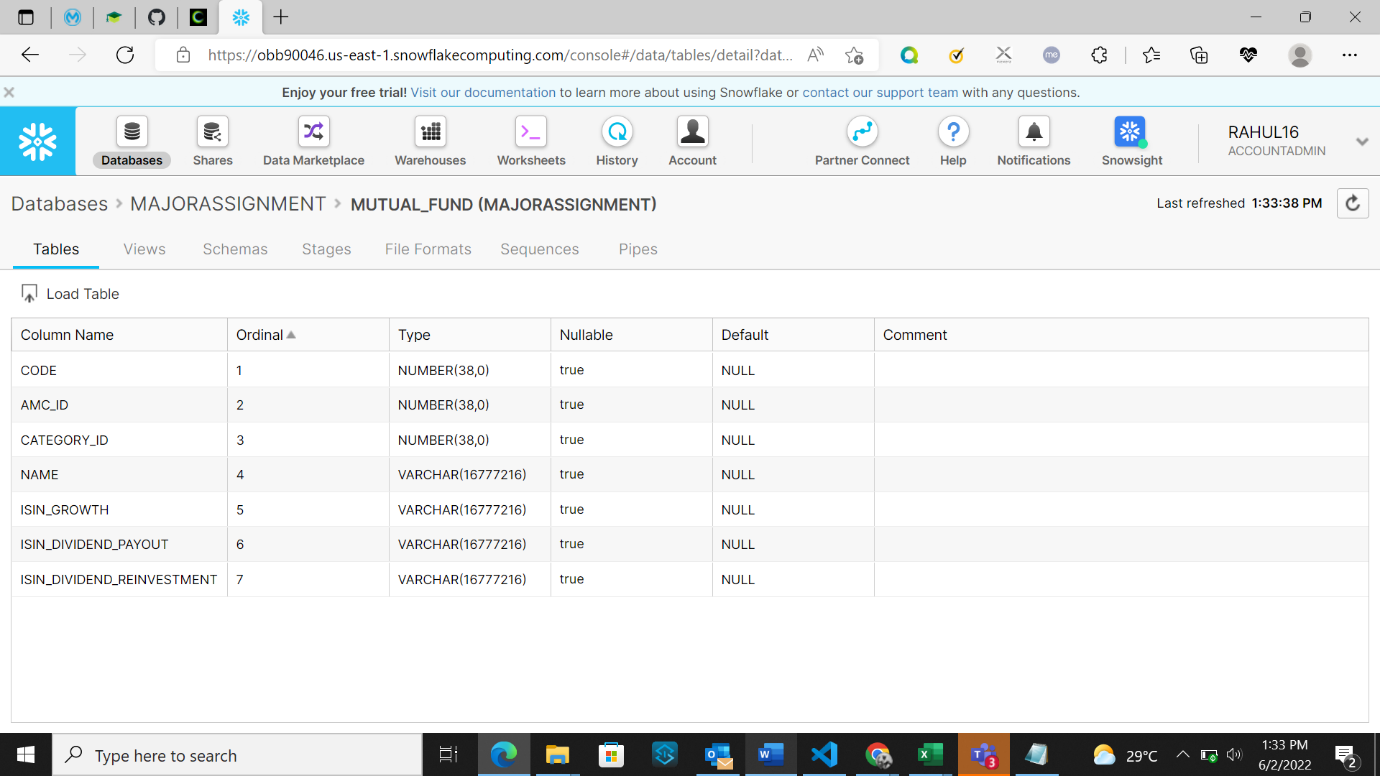
**Created Table amc for loading amc data:**



**Created Table fund\_category for loading fundcategory data:**



**Created a Table mutual\_fund for loading mutualfunds data :**



**Milestone-1 :**

**Gather basic data insights from the given data**

* 1. Calculate Monthly average NAV, Repurchase & Sale Price for each scheme.

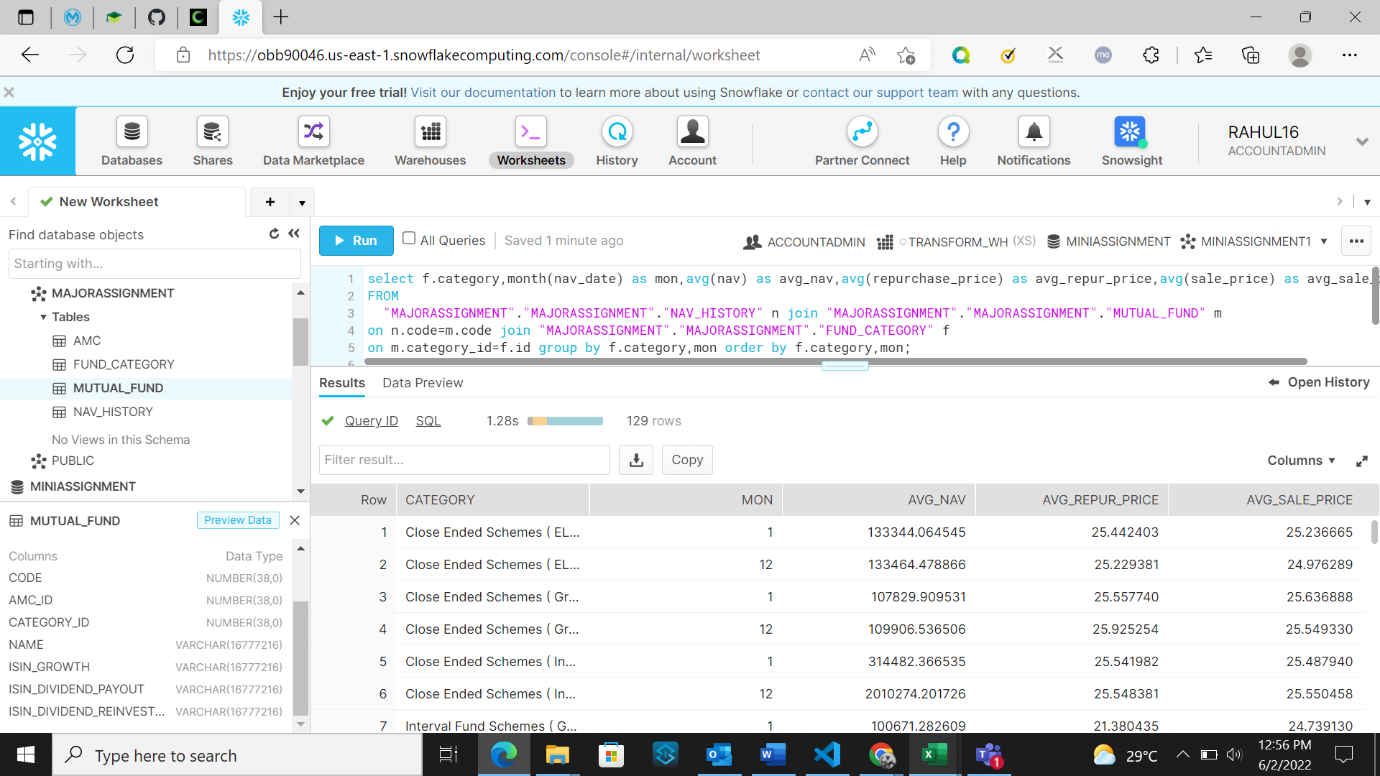
select f.category,month(nav\_date) as mon,avg(nav) as avg\_nav,avg(repurchase\_price) as avg\_repur\_price,avg(sale\_price) as avg\_sale\_price

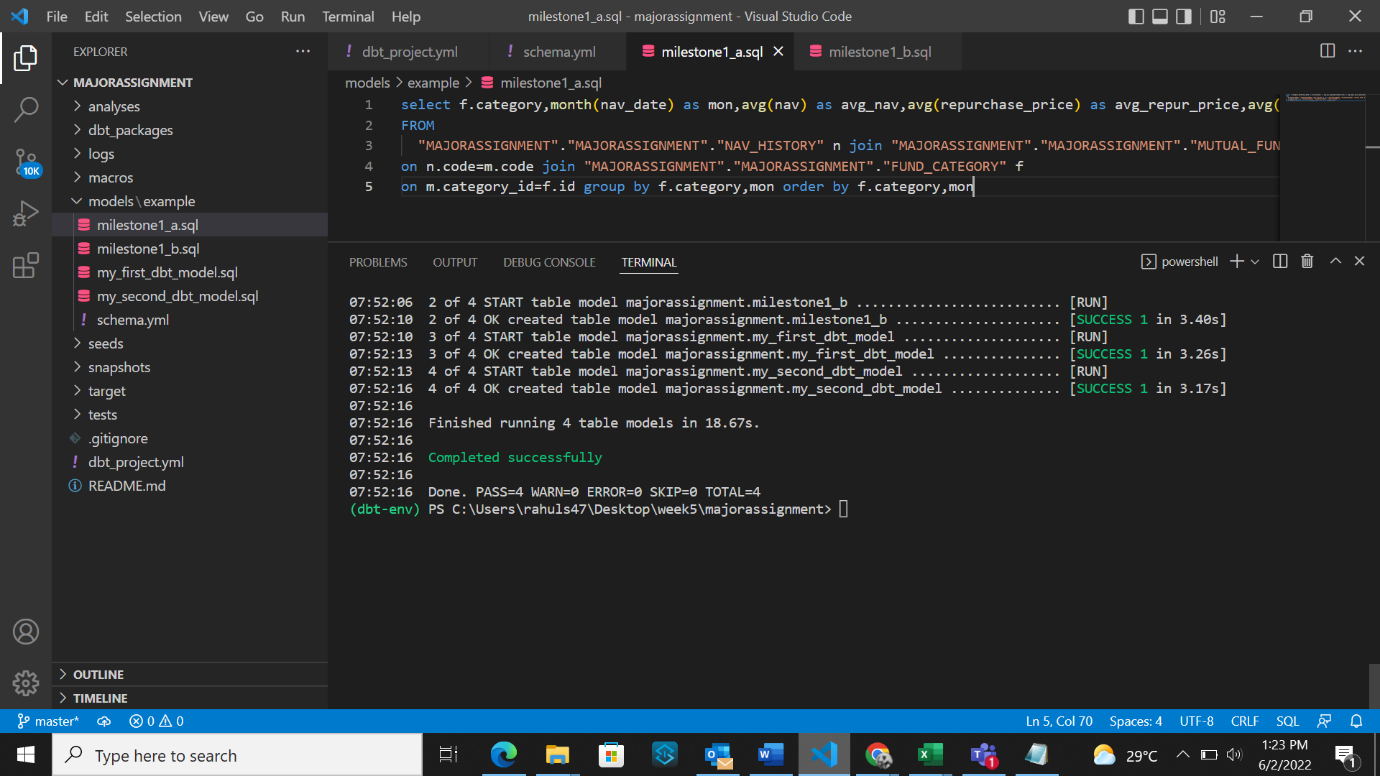
FROM

"MAJORASSIGNMENT"."MAJORASSIGNMENT"."NAV\_HISTORY" n join "MAJORASSIGNMENT"."MAJORASSIGNMENT"."MUTUAL\_FUND" m

on n.code=m.code join "MAJORASSIGNMENT"."MAJORASSIGNMENT"."FUND\_CATEGORY" f

on m.category\_id=f.id group by f.category,mon order by f.category,mon;





* 1. Find out each scheme’s Max and Min NAV value and Date it occurred

WITH Cte AS

(

SELECT nav\_date,f.category as category,nav,

ROW\_NUMBER() OVER(partition by f.category ORDER BY nav ASC) RN1,

ROW\_NUMBER() OVER(partition by f.category ORDER BY nav DESC) RN2

FROM

"MAJORASSIGNMENT"."MAJORASSIGNMENT"."NAV\_HISTORY" n join "MAJORASSIGNMENT"."MAJORASSIGNMENT"."MUTUAL\_FUND" m

on n.code=m.code join "MAJORASSIGNMENT"."MAJORASSIGNMENT"."FUND\_CATEGORY" f

on m.category\_id=f.id

)

SELECT category,

MAX(CASE WHEN RN2=1 THEN nav END) maxnav,

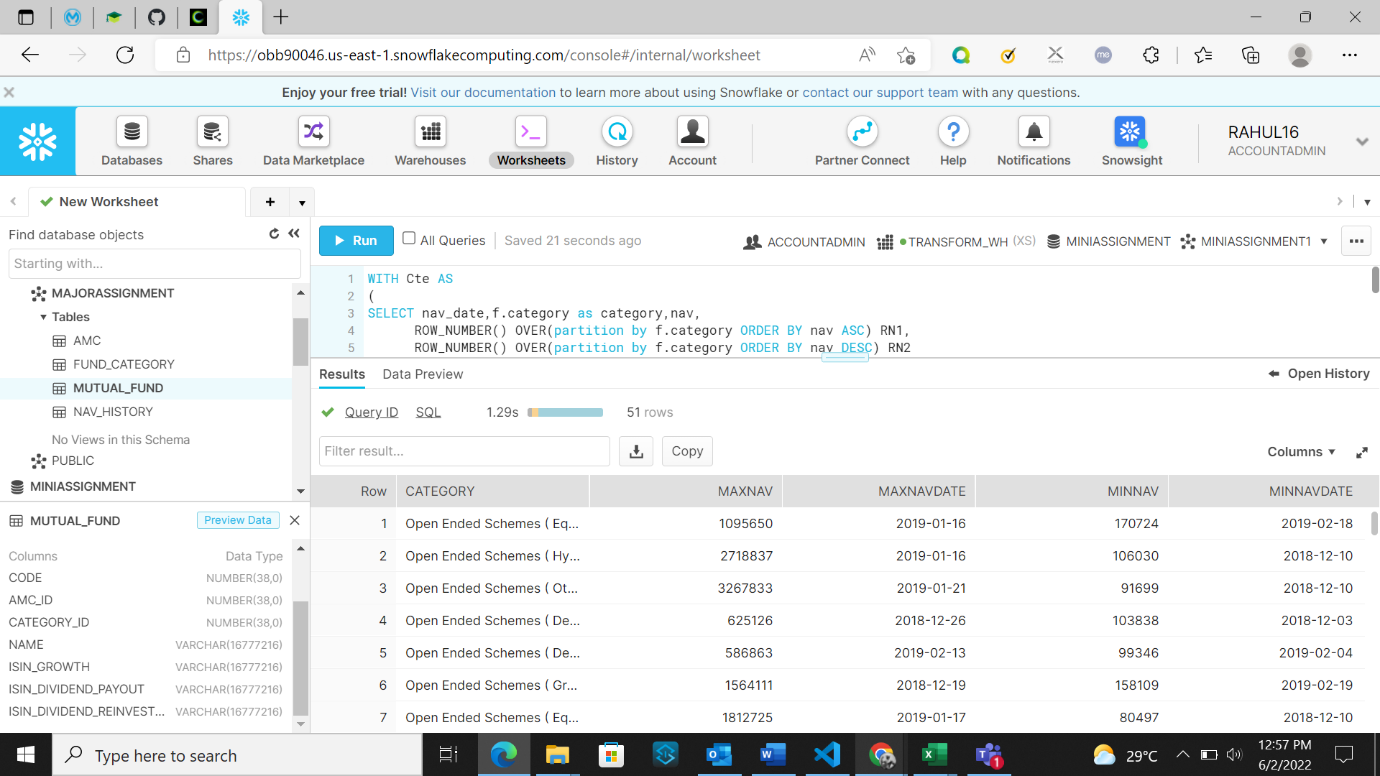
MAX(CASE WHEN RN2=1 THEN nav\_date END) maxnavdate,

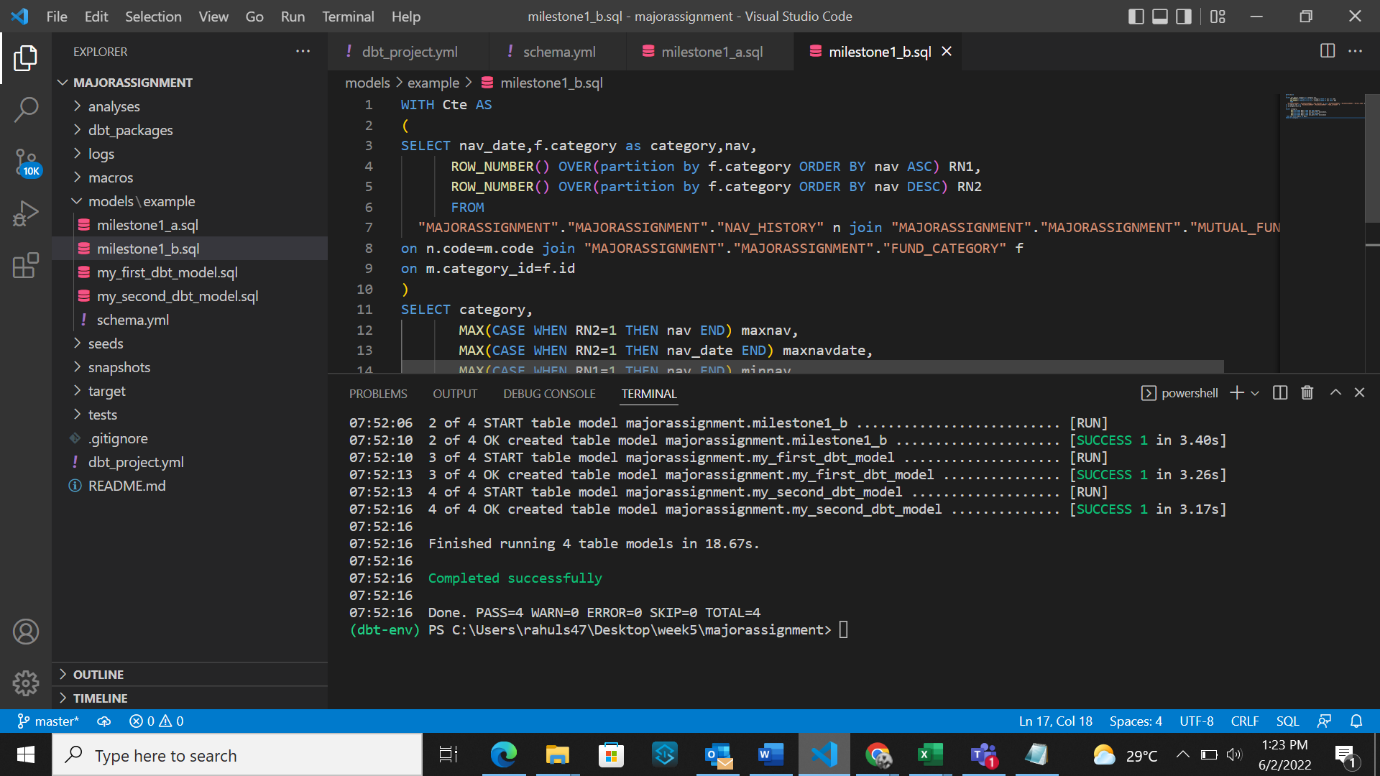
MAX(CASE WHEN RN1=1 THEN nav END) minnav,

MAX(CASE WHEN RN1=1 THEN nav\_date END) minnavdate

FROM CTE WHERE RN1=1 OR RN2=1

GROUP BY category;





**Milestone-3 : Visualize analytics and build dashboards via Data Studio**

Visualize the following:

1. Plot performance of upto 3 funds for the past 3 months. [line]
2. Count of mutual funds discontinued each year. [hist]
3. Distribution of latest mutual funds based on category. [pie]
4. Average growth of mutual funds based on category for past 3months.