Q1.

For yearly Basis - over the years 2018-2021?

Query:

SELECT

SUBSTRING([CREATION DATE], 7, 4) AS YEAR, COUNT(*) AS REQUEST COUNT

FROM

[master].[d2].[stg_Kansas_city]

WHERE

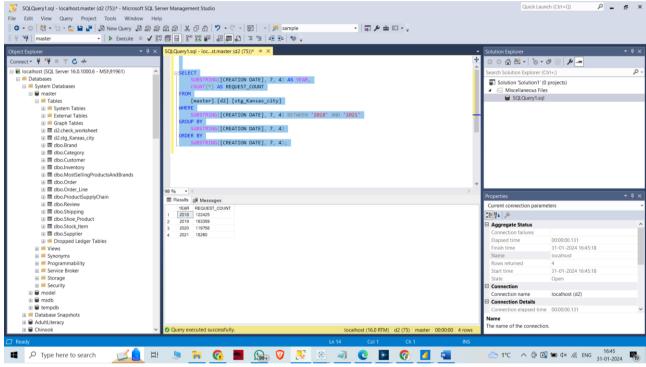
SUBSTRING([CREATION DATE], 7, 4) BETWEEN '2018' AND '2021'

GROUP BY

SUBSTRING([CREATION DATE], 7, 4)

ORDER BY

SUBSTRING([CREATION DATE], 7, 4); For yearly basis from 2018-2021



For monthly basis from 2018-2021

Query:

SELECT

SUBSTRING([CREATION DATE], 1, 2) AS MONTH, SUBSTRING([CREATION DATE], 7, 4) AS YEAR,

COUNT(*) AS REQUEST_COUNT

FROM

damg7370_demo.stg_sfo_KansasCity_Assg1_prj

WHERE

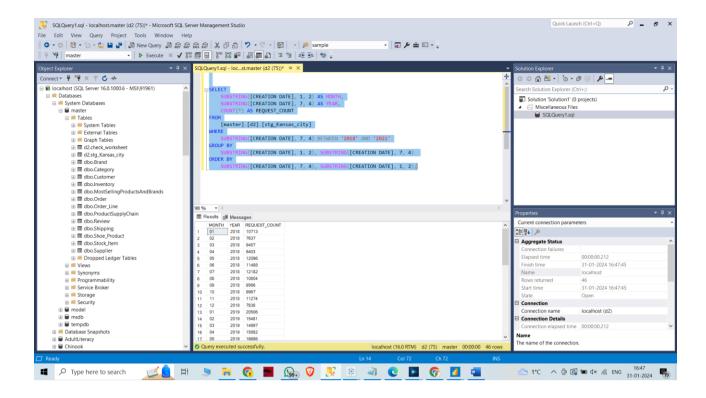
SUBSTRING([CREATION DATE], 7, 4) BETWEEN '2018' AND '2021'

GROUP BY

SUBSTRING([CREATION DATE], 1, 2), SUBSTRING([CREATION DATE], 7, 4)

ORDER BY

SUBSTRING([CREATION DATE], 7, 4), SUBSTRING([CREATION DATE], 1, 2);



Q2.

Query:

SELECT

[SOURCE],

COUNT(*) AS REQUEST_COUNT

FROM

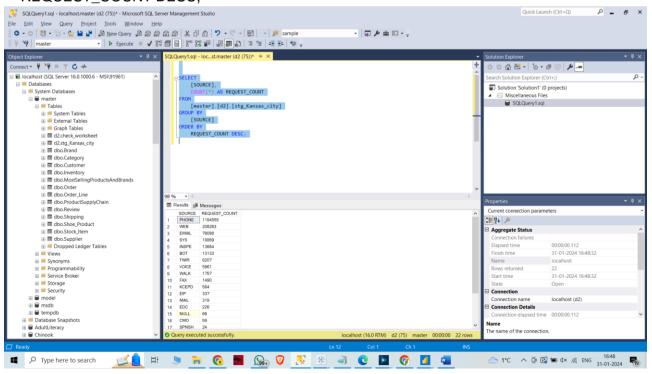
[master].[d2].[stg_Kansas_city]

GROUP BY

[SOURCE]

ORDER BY

REQUEST_COUNT DESC;



Q3.

Query:

SELECT

[DEPARTMENT],

COUNT(*) AS REQUEST_COUNT_Dept

FROM

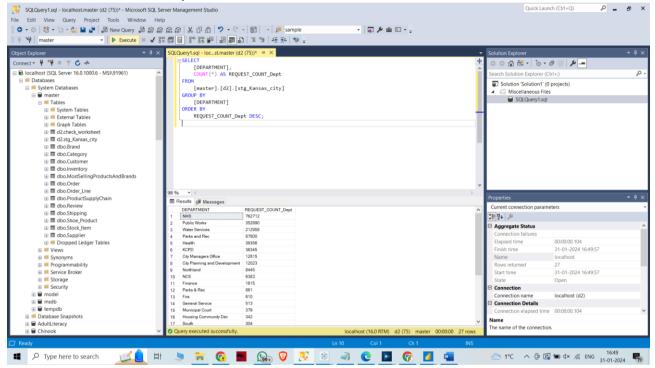
[master].[d2].[stg_Kansas_city]

GROUP BY

[DEPARTMENT]

ORDER BY

REQUEST_COUNT_Dept DESC;



```
Q4.

SELECT TOP 10

CATEGORY1,

[CASE ID],

[TYPE],

MIN([DAYS TO CLOSE]) AS minimum_count_of_Days

FROM

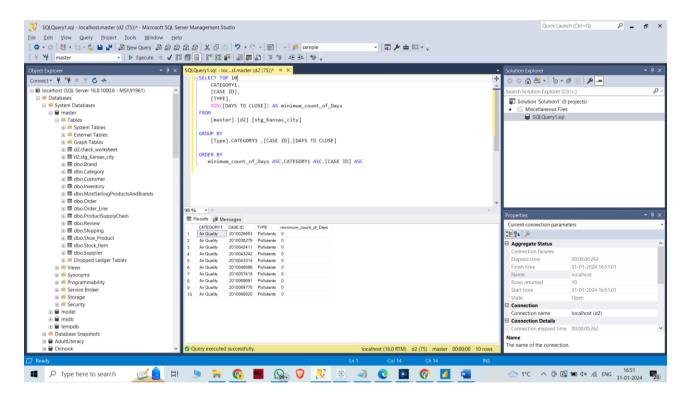
[master].[d2].[stg_Kansas_city]

GROUP BY

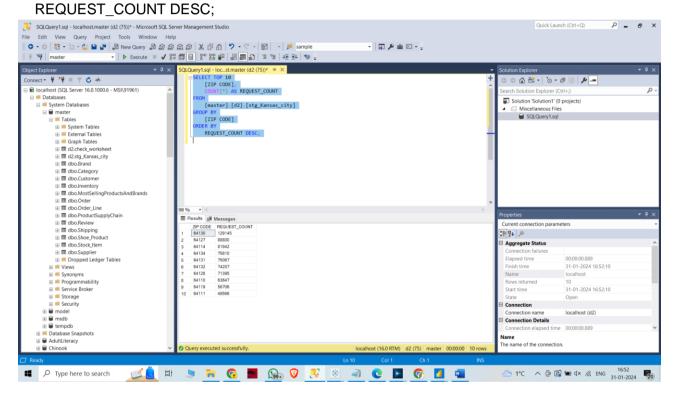
[Type],CATEGORY1,[CASE ID],[DAYS TO CLOSE]
```

ORDER BY

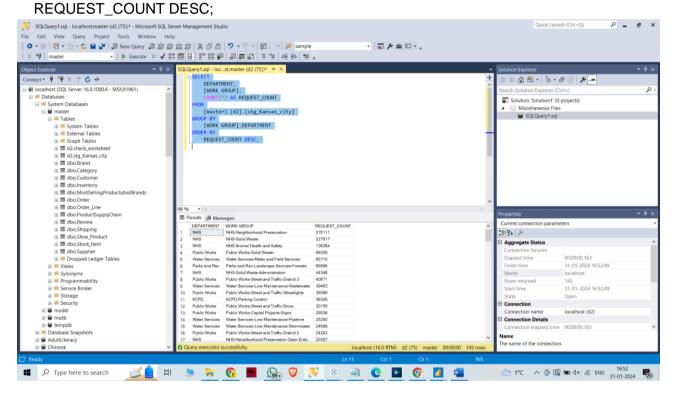
minimum_count_of_Days ASC,CATEGORY1 ASC,[CASE ID] ASC



Q5.
SELECT TOP 10
[ZIP CODE],
COUNT(*) AS REQUEST_COUNT
FROM
[master].[d2].[stg_Kansas_city]
GROUP BY
[ZIP CODE]
ORDER BY



Q6.
SELECT
DEPARTMENT,
[WORK GROUP],
COUNT(*) AS REQUEST_COUNT
FROM
[master].[d2].[stg_Kansas_city]
GROUP BY
[WORK GROUP],DEPARTMENT
ORDER BY



Q7.

SELECT

DEPARTMENT,

/*SUM([DAYS TO CLOSE]) AS AVERAGE_RESPONSE_TIME,*/

MIN([DAYS TO CLOSE]) AS MIN_RESPONSE_TIME,

MAX([DAYS TO CLOSE]) AS MAX_RESPONSE_TIME

/*COUNT(*) AS TOTAL_REQUESTS*/

FROM

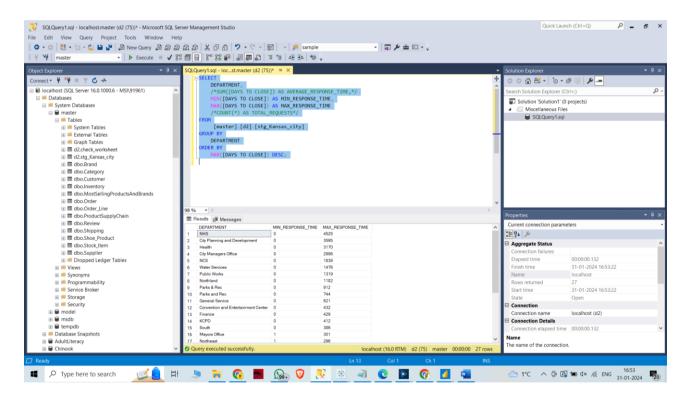
[master].[d2].[stg_Kansas_city]

GROUP BY

DEPARTMENT

ORDER BY

MAX([DAYS TO CLOSE]) DESC;



Q8.

SELECT

YEAR(CONVERT(DATE, [CREATION DATE], 101)) AS REQUEST_YEAR, STATUS,

COUNT(*) AS STATUS_COUNT

FROM

[master].[d2].[stg_Kansas_city]

WHERE

YEAR(CONVERT(DATE, [CREATION DATE], 101)) BETWEEN 2018 AND 2021

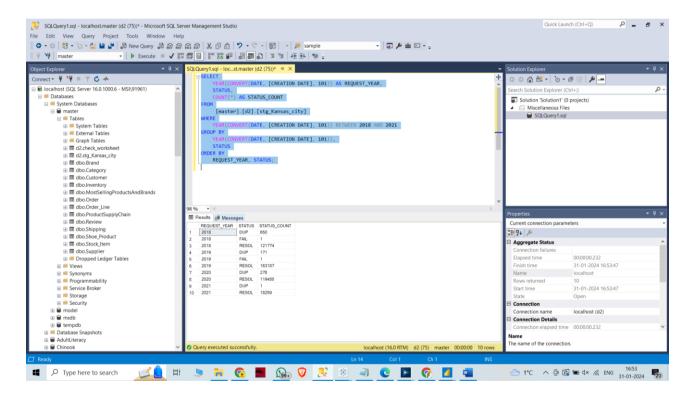
GROUP BY

YEAR(CONVERT(DATE, [CREATION DATE], 101)),

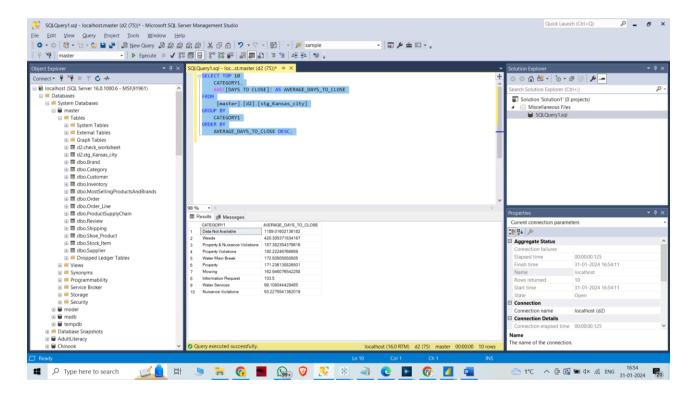
STATUS

ORDER BY

REQUEST_YEAR, STATUS;



Q9.
SELECT TOP 10
CATEGORY1,
AVG([DAYS TO CLOSE]) AS AVERAGE_DAYS_TO_CLOSE
FROM
[master].[d2].[stg_Kansas_city]
GROUP BY
CATEGORY1
ORDER BY
AVERAGE_DAYS_TO_CLOSE DESC;



Q10.
SELECT
DEPARTMENT,
COUNT(*) AS WORKLOAD,
AVG([DAYS TO CLOSE]) AS AVERAGE_EFFICIENCY
FROM
[master].[d2].[stg_Kansas_city]
GROUP BY
DEPARTMENT
ORDER BY
WORKLOAD DESC;

