DEAR FAIZAN,

Please review this final query .

QUERY-1: VEHICLE AVAILABILITY

```
create or replace PROCEDURE MSIL_VEH_AVAILABILITY(
C OUT SYS_REFCURSOR,
today IN DATE )
AS
BEGIN
OPEN C FOR
WITH T1 AS
(SELECT EIM_REGN_NO,
EIM_MESSAGE_RECIEVED_TIME,
EIM_LATITUDE,
EIM_LONGITUDE,
eim_message_created_time,
ROW_NUMBER() OVER (PARTITION BY EIM_REGN_NO ORDER BY eim_message_created_time DESC) RN
FROM ETRK_IN_MSGS_TRANS
WHERE EXISTS
(SELECT 1
FROM ETRK_MUL_NEWTRIP
WHERE TRIP_REGN_NO = EIM_REGN_NO
AND TRIP_STATUS   > 2
)
),
T2 AS
(
SELECT T.*,L.LATITUDE,L.LONGITUDE,
DISTANCE_CALCULATOR(EIM_LONGITUDE,EIM_LATITUDE,L.LONGITUDE, L.LATITUDE) as DIST ,-- added distance calculator function
ROW_NUMBER() OVER (PARTITION BY EIM_REGN_NO,DISTANCE_CALCULATOR(EIM_LONGITUDE,EIM_LATITUDE,L.LONGITUDE,
L.LATITUDE)
ORDER BY EIM_REGN_NO ASC ,DISTANCE_CALCULATOR(EIM_LONGITUDE,EIM_LATITUDE,L.LONGITUDE, L.LATITUDE) ASC,
EIM_MESSAGE_CREATED_TIME DESC) R
FROM T1 T
CROSS JOIN MSIL_OEM_LOC_CODE_MST_L2_GJ L
WHERE CODE='001'
)
SELECT COUNT(*),
CASE
WHEN DIST<=30 AND DIST >=0
THEN '0 TO 30'
WHEN DIST<=60 AND DIST  >30
THEN '30.1 TO 60'
WHEN DIST<=150 AND DIST  >60
THEN '60.1 TO 150'
ELSE '>150'
END "DISTANCE"
FROM T2 t
```

```
WHERE t.R=1
GROUP BY
CASE
WHEN DIST<=30 AND DIST >=0
THEN '0 TO 30'
WHEN DIST<=60 AND DIST  >30
THEN '30.1 TO 60'
WHEN DIST<=150 AND DIST  >60
THEN '60.1 TO 150'
ELSE '>150'
END
ORDER BY
CASE
WHEN DIST<=30 AND DIST >=0
THEN '0 TO 30'
WHEN DIST<=60 AND DIST  >30
THEN '30.1 TO 60'
WHEN DIST<=150 AND DIST  >60
THEN '60.1 TO 150'
ELSE '>150'
END  ;

END MSIL_VEH_AVAILABILITY;
```

QUERY-2: TOTAL TRIPS

```
create or replace PROCEDURE MSIL_TOTALTRIPS3
(
   C OUT SYS_REFCURSOR,
   P_FROM_DATE IN DATE,
   P_TO_DATE   IN DATE)
AS
BEGIN
 OPEN C FOR SELECT X.CNT,"MONTH" FROM
 (SELECT EXTRACT(MONTH FROM TRIP_INV_DATE) "MONTH",COUNT(*) CNT
 FROM ETRK_MUL_NEWTRIP
 WHERE (TRIP_INV_DATE >= P_FROM_DATE
 AND TRIP_INV_DATE   <= P_TO_DATE)
 AND TRIP_INV_DATE   >= TO_DATE('01-01-17','DD-MM-YY')
 GROUP BY EXTRACT(MONTH FROM TRIP_INV_DATE)
 UNION
 SELECT EXTRACT(MONTH FROM TRIP_INV_DATE) "MONTH",COUNT(*) CNT
 FROM ETRK_MUL_NEWTRIP_HIST
 WHERE (TRIP_INV_DATE >= P_FROM_DATE
 AND TRIP_INV_DATE   <= P_TO_DATE)
 AND TRIP_INV_DATE   >= TO_DATE('01-01-17','DD-MM-YY') -- HARD CODED (Since data before the date is not accurate)
 GROUP BY EXTRACT(MONTH FROM TRIP_INV_DATE)
 ) X ORDER BY "MONTH";

END MSIL_TOTALTRIPS3;
```

QUERY-3: OPEN TRIPS

```
create or replace PROCEDURE MSIL_OPENTRIPS3
(
   C OUT SYS_REFCURSOR,
   P_FROM IN DATE,
   P_TO IN DATE,
   PRESENT_PAST VARCHAR2)
AS
from_date VARCHAR2(20) := to_char(P_FROM,'dd-MM-YY') || '00:00:00';
end_date VARCHAR2(20) := to_char(P_TO,'dd-MM-YY') || '23:59:59';
BEGIN
 IF PRESENT_PAST = 'PRESENT' THEN
   OPEN C FOR SELECT COUNT(*) CNT FROM ETRK_MUL_NEWTRIP WHERE TRIP_INV_DATE >= TO_DATE('01-01-17','DD-MM-YY')
AND TRIP_STATUS = 1 AND TRIP_ONWD_COMP_DATE IS NULL; --ahead cases
 ELSE
   OPEN C FOR SELECT X.CNT,"MONTH" FROM
   (SELECT COUNT(*) CNT, EXTRACT(MONTH FROM TRIP_INV_DATE) "MONTH"
   FROM ETRK_MUL_NEWTRIP
   WHERE  TRIP_INV_DATE  BETWEEN  TO_DATE( from_date,'DD-MM-YY  HH24:MI:SS')  AND  TO_DATE( end_date,'DD-MM-YY
HH24:MI:SS')
   AND (TRIP_AUTO_CLOSURE_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR TRIP_AUTO_CLOSURE_DATE IS NULL)
   AND (TRIP_COMPLETED_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR TRIP_COMPLETED_DATE IS NULL)
   AND (TRIP_ONWD_COMP_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR TRIP_ONWD_COMP_DATE IS NULL)
   AND (PROXY_CLOSURE_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR PROXY_CLOSURE_DATE IS NULL)
   AND TRIP_INV_DATE >= TO_DATE('01-01-17','DD-MM-YY') -- HARD CODED (Since data before the date is not accurate)
   GROUP BY EXTRACT(MONTH FROM TRIP_INV_DATE)
   UNION

   SELECT COUNT(*) CNT,EXTRACT(MONTH FROM TRIP_INV_DATE) "MONTH"
   FROM ETRK_MUL_NEWTRIP_HIST
   WHERE  TRIP_INV_DATE  BETWEEN  TO_DATE( from_date,'DD-MM-YY  HH24:MI:SS')  AND  TO_DATE( end_date,'DD-MM-YY
HH24:MI:SS')
   AND (TRIP_AUTO_CLOSURE_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR TRIP_AUTO_CLOSURE_DATE IS NULL)
   AND (TRIP_COMPLETED_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR TRIP_COMPLETED_DATE IS NULL)
   AND (TRIP_ONWD_COMP_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR TRIP_ONWD_COMP_DATE IS NULL)
   AND (PROXY_CLOSURE_DATE > TO_DATE(end_date,'DD-MM-YY HH24:MI:SS') OR PROXY_CLOSURE_DATE IS NULL)
   AND TRIP_INV_DATE >= TO_DATE('01-01-17','DD-MM-YY') -- HARD CODED (Since data before the date is not accurate)
   GROUP BY EXTRACT(MONTH FROM TRIP_INV_DATE)
   ) X ORDER BY "MONTH";
 END IF;


END MSIL_OPENTRIPS3;
```

QUERY 4: CLOSED TRIPS

```sql
Create or replace PROCEDURE MSIL_CLOSEDTRIPS3
(
C OUT SYS_REFCURSOR,
P_FROM_DATE IN DATE,
P_TO_DATE IN DATE
)
AS
BEGIN
OPEN C FOR
Select X.CNT, "Month" from (
SELECT COUNT(*) CNT,extract(month from coalesce(TRIP_ONWD_COMP_DATE, PROXY_CLOSURE_DATE,
TRIP_COMPLETED_DATE,    TRIP_AUTO_CLOSURE_DATE)) "Month"
FROM ETRK_MUL_NEWTRIP
WHERE
COALESCE(TRIP_ONWD_COMP_DATE,PROXY_CLOSURE_DATE,TRIP_COMPLETED_DATE,TRIP_AUTO_CLOSURE_DATE)>=
P_FROM_DATE AND
COALESCE(TRIP_ONWD_COMP_DATE,PROXY_CLOSURE_DATE,TRIP_COMPLETED_DATE,TRIP_AUTO_CLOSURE_DATE)<=
P_TO_DATE
AND TRIP_INV_DATE >= TO_DATE('01-01-19','DD-MM-YY')
Group by extract(month from coalesce(TRIP_ONWD_COMP_DATE, PROXY_CLOSURE_DATE, TRIP_COMPLETED_DATE,
TRIP_AUTO_CLOSURE_DATE))
UNION
SELECT COUNT(*) CNT,extract(month from coalesce(TRIP_ONWD_COMP_DATE, PROXY_CLOSURE_DATE,
TRIP_COMPLETED_DATE, TRIP_AUTO_CLOSURE_DATE)) "Month"
FROM ETRK_MUL_NEWTRIP_HIST
WHERE
COALESCE(TRIP_ONWD_COMP_DATE,PROXY_CLOSURE_DATE,TRIP_COMPLETED_DATE,TRIP_AUTO_CLOSURE_DATE)>=
P_FROM_DATE
AND
COALESCE(TRIP_ONWD_COMP_DATE,PROXY_CLOSURE_DATE,TRIP_COMPLETED_DATE,TRIP_AUTO_CLOSURE_DATE)<=
P_TO_DATE
AND TRIP_INV_DATE >= TO_DATE('01-01-19','DD-MM-YY')
Group by extract(month from coalesce(TRIP_ONWD_COMP_DATE, PROXY_CLOSURE_DATE, TRIP_COMPLETED_DATE,
TRIP_AUTO_CLOSURE_DATE))


)X order by "Month";


END MSIL_CLOSEDTRIPS3;
```

QUERY 5:- DELAY TRIPS

```
create or replace PROCEDURE MSIL_DELAYTRIPS3
(
   C OUT SYS_REFCURSOR,
   P_FROM_DATE IN DATE,
   P_TO_DATE IN DATE
   )
 AS
 BEGIN
 OPEN C FOR SELECT X.CNT,"MONTH" FROM
 (SELECT EXTRACT(MONTH FROM TRIP_INV_DATE) "MONTH",COUNT(*) CNT
 FROM ETRK_MUL_NEWTRIP
 WHERE (TRIP_INV_DATE >= P_FROM_DATE
 AND TRIP_INV_DATE   <= P_TO_DATE)
 AND TRIP_INV_DATE   >= TO_DATE('01-01-17','DD-MM-YY') -- HARD CODED (Since data before the date is not accurate)
 AND TRIP_ETA_STATUS LIKE 'DELAY%'
 GROUP BY EXTRACT(MONTH FROM TRIP_INV_DATE)
 UNION
  SELECT EXTRACT(MONTH FROM TRIP_INV_DATE) "MONTH",COUNT(*) CNT
 FROM ETRK_MUL_NEWTRIP_HIST
 WHERE (TRIP_INV_DATE >= P_FROM_DATE
 AND TRIP_INV_DATE   <= P_TO_DATE)
 AND TRIP_INV_DATE   >= TO_DATE('01-01-17','DD-MM-YY') -- HARD CODED (Since data before the date is not accurate)
 AND TRIP_ETA_STATUS LIKE 'DELAY%'
 GROUP BY EXTRACT(MONTH FROM TRIP_INV_DATE)
 ) X ORDER BY "MONTH";


END MSIL_DELAYTRIPS3;
```