USE KCC;

/\* Insight # 1: Call counts for each state\*/

SELECT

query\_text, state\_name, icount

FROM

(SELECT

qi.query\_text, l.state\_name, COUNT(BQ.QUERY\_ID) ICOUNT

FROM

block\_queryinfo bq

JOIN query\_info qi ON bq.query\_id = qi.query\_id

JOIN location l ON bq.block\_id = l.location\_id

GROUP BY qi.query\_text , l.state\_name) x

ORDER BY ICOUNT DESC;

/\* Insight # 2: Call Count for each state and season\*/

SELECT

State\_Name,

IFNULL(SUM(CASE

WHEN Season = 'Zaid Kharif' THEN QUERYCOUNT

END),

0) 'Zaid Kharif',

IFNULL(SUM(CASE

WHEN Season = 'Jayad' THEN QUERYCOUNT

END),

0) 'Jayad',

IFNULL(SUM(CASE

WHEN Season = 'Kharif' THEN QUERYCOUNT

END),

0) 'Kharif',

IFNULL(SUM(CASE

WHEN Season = 'Rabi' THEN QUERYCOUNT

END),

0) 'Rabi'

FROM

(SELECT

L.State\_Name, CD.Season, COUNT(BQI.QUERY\_ID) QUERYCOUNT

FROM

block\_queryinfo BQI

JOIN location L ON BQI.Block\_Id = L.Location\_Id

JOIN QUERY\_INFO QI ON QI.QUERY\_ID = BQI.QUERY\_ID

JOIN crop\_details CD ON CD.CROP\_ID = QI.Crop\_Id

GROUP BY L.State\_Name , CD.Season) x

GROUP BY State\_Name;

/\* Insight # 3: Most frequent queries among different blocks \*/

SELECT

QI.QUERY\_TEXT, L.block\_NAME, COUNT(x.block\_id) callcount

FROM

(SELECT

BQI.QUERY\_ID, BQI.BLOCK\_ID

FROM

block\_queryinfo BQI

JOIN block\_queryinfo BQI1 ON BQI.QUERY\_ID = BQI1.QUERY\_ID

WHERE

BQI.BLOCK\_ID <> BQI1.BLOCK\_ID UNION SELECT

BQI1.QUERY\_ID, BQI1.BLOCK\_ID

FROM

block\_queryinfo BQI

JOIN block\_queryinfo BQI1 ON BQI.QUERY\_ID = BQI1.QUERY\_ID

AND BQI.BLOCK\_ID <> BQI1.BLOCK\_ID) x

JOIN

QUERY\_INFO QI ON QI.QUERY\_ID = X.QUERY\_ID

JOIN

location L ON X.Block\_Id = L.Location\_Id

GROUP BY Query\_Text , block\_NAME

ORDER BY Query\_Text , callcount DESC;

/\* Insight # 4: Most frequent queries per quarter \*/

SELECT

query\_text,

IFNULL(SUM(CASE

WHEN MONTH(createddate) BETWEEN 1 AND 3 THEN callcount

END),

0) 'Quarter1',

IFNULL(SUM(CASE

WHEN MONTH(createddate) BETWEEN 4 AND 6 THEN callcount

END),

0) 'Quarter2',

IFNULL(SUM(CASE

WHEN MONTH(createddate) BETWEEN 7 AND 9 THEN callcount

END),

0) 'Quarter3',

IFNULL(SUM(CASE

WHEN MONTH(createddate) BETWEEN 10 AND 12 THEN callcount

END),

0) 'Quarter4'

FROM

(SELECT

query\_text,

bqi.created\_date createddate,

COUNT(bqi.query\_Id) callcount

FROM

block\_queryinfo bqi

JOIN query\_info qi ON qi.query\_id = bqi.query\_id

JOIN location l ON bqi.block\_id = l.location\_id

GROUP BY query\_text , bqi.created\_date) x

GROUP BY query\_text;

/\* Insight # 5: Create cursor to insert record with primary key - Please note that data should be present in the staging table for below mnetioned cursor to work\*/

DECLARE V\_season VARCHAR(100);

DECLARE V\_Sector VARCHAR(100);

DECLARE V\_Category VARCHAR(100);

DECLARE V\_Crop VARCHAR(100);

DECLARE V\_QueryType VARCHAR(100);

DECLARE V\_QueryText VARCHAR(5000);

DECLARE V\_KCCAns VARCHAR(5000);

DECLARE V\_StateName VARCHAR(100);

DECLARE V\_DistrictName VARCHAR(100);

DECLARE V\_BlockName VARCHAR(100);

DECLARE V\_CreatedOn VARCHAR(5000);

DECLARE V\_id INT;

DECLARE V\_Crid INT;

DECLARE done INT DEFAULT 0;

DECLARE V\_sid INT;

DECLARE V\_did INT;

DECLARE V\_Blid INT;

DECLARE Cur1 CURSOR FOR

SELECT Season,Sector ,Category ,Crop ,QueryType,QueryText,kccans,StateName,DistrictName,BlockName,

CreatedOn FROM stagingtable;

DECLARE CONTINUE handler FOR NOT FOUND SET done=1;

OPEN Cur1;

get\_detail: LOOP

FETCH CUR1 INTO V\_season,V\_Sector, V\_Category,V\_Crop,V\_QueryType,V\_QueryText,V\_KCCAns,V\_StateName,

V\_DistrictName,V\_BlockName, V\_CreatedOn;

IF done=1 THEN LEAVE get\_detail; END IF;

INSERT INTO Season (Season\_Name)

SELECT \* FROM ( SELECT V\_season ) AS Y

WHERE NOT EXISTS ( SELECT Season\_Name FROM Season WHERE ifnull(Season\_Name,'')=V\_season);

SELECT

Season\_Id

INTO V\_id FROM

Season

WHERE

Season\_Name = V\_season;

INSERT INTO Sector (Sector\_Name,Season\_Id)

SELECT \* FROM ( SELECT V\_Sector,V\_id ) AS Y

WHERE NOT EXISTS (SELECT Sector\_Name,Season\_Id FROM Sector WHERE ifnull(Sector\_Name,'') = V\_Sector

AND Season\_Id = V\_id);

END LOOP get\_detail;CLOSE Cur1;

/\*Insight # 6: Data deletion without using Primary Key in where clause \*/

DELETE bqi

FROM block\_queryinfo bqi

JOIN location 1 ON bqi.block\_id=1.location\_id

JOIN query\_info qi ON qi.query\_id=bqi.query\_id

JOIN (

SELECT hmy FROM block\_queryinfo JOIN location 1 ON bqi.block\_id=1.location\_id

WHERE 1.state\_name='tamilnadu' order by bqi.hmy desc limit 100

) x ON x.hmy=bqi.hmy

WHERE 1.state\_name='tamilnadu'

DELETE qi FROM block\_queryinfo bqi

RIGHT JOIN query\_info qi ON qi.query\_id=bqi.query\_id

WHERE bqi.query\_id is NULL;

SELECT

qi.\*

FROM

block\_queryinfo bqi

RIGHT JOIN

query\_info qi ON qi.query\_id = bqi.query\_id

WHERE

bqi.query\_id IS NULL;