**SQL Queries**

1. This query is for finding work status of lab on the basis of time taken to complete soil analytical test and price taken by lab. This query can be used to check labs are doing their work properly or not.

SELECT provides\_soil\_analysis.Lab\_ID, Lab\_Name, Contact\_No, Area\_Name, provides\_soil\_analysis.Test\_ID,

amount\_paid, F\_ID, DATEDIFF(Report\_recieved\_date,sample\_given\_date) as days\_for\_test,

CASE WHEN DATEDIFF(Report\_recieved\_date,sample\_given\_date)>14 AND amount\_paid>1800 AND

provides\_soil\_analysis.Test\_ID='T30789' THEN 'Expensive and late'

WHEN DATEDIFF(Report\_recieved\_date,sample\_given\_date)>14 AND amount\_paid<=1800 AND

provides\_soil\_analysis.Test\_ID='T30789' THEN 'late with ok price'

WHEN DATEDIFF(Report\_recieved\_date,sample\_given\_date)<14 AND amount\_paid>1800 AND provides\_soil\_analysis.Test\_ID='T30789' THEN 'On time and expensive'

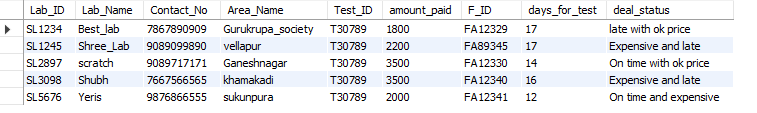
ELSE 'On time with ok price'

END as deal\_status

FROM soil\_analytical\_lab,provides\_soil\_analysis

WHERE soil\_analytical\_lab.Lab\_ID=provides\_soil\_analysis.Lab\_ID;

Output:



1. This query gives farmer's current season's wheat production details, price status and give the output in the ascending order of expected price. This query will be used by crop buyer.

SELECT current\_season\_crop.F\_ID,First\_name, Contact\_No, Expected\_production, Expected\_price,

CASE WHEN Expected\_price>220 THEN 'expensive'

WHEN Expected\_price<=220 THEN 'affordable'

END AS price\_status

FROM farmer, current\_season\_crop

WHERE state='Gujarat' AND Expected\_production>200 AND

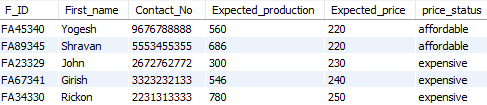
crop\_ID='WH123' AND crop\_delivery\_month='July' AND crop\_delievery\_year='2000' AND

current\_season\_crop.F\_ID=farmer.F\_ID

ORDER BY(Expected\_price) ASC

LIMIT 5;

Output:



1. This query gives farmer's list fulfilling some conditions about their last season crop details. This query can be used for analysis purpose.

SELECT farmer.F\_ID,First\_name, Contact\_No,Address, previous\_season\_crop.production,state,district

FROM farmer,previous\_season\_crop

WHERE sowing\_month='January' AND harvest\_month='May' AND sowing\_year=2000

AND harvest\_year=2000 AND previous\_season\_crop.crop\_ID='WH123' AND previous\_season\_crop.F\_ID=farmer.F\_ID

AND production= ANY (SELECT production

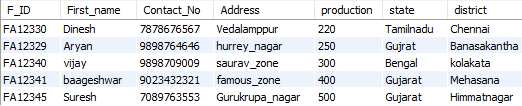
FROM previous\_season\_crop

WHERE production

BETWEEN 200.0 AND 500.0)

ORDER BY(production) ASC;

Output:



1. This query gives detail about those fertilizer dealers selling fertilizer than normal price and having stalk more than normal.

SELECT fertilizer\_dealer.Fd\_ID, Contact\_No, First\_name, fertilizer\_availability.Price, Available\_stock, District, Area\_Name

FROM fertilizer\_dealer, fertilizer\_availability

WHERE fertilizer\_availability.Fertilizer\_ID='FE1232'

AND EXISTS (SELECT price

FROM fertilizer\_availability

UNION

SELECT Available\_stock

FROM fertilizer\_availability

WHERE price>500 AND Available\_stock>=20) AND fertilizer\_availability.Fd\_ID= fertilizer\_dealer.Fd\_ID AND state='gujarat'

ORDER BY (fertilizer\_availability.Price) ASC;

Output:

