

```

1 select * from Farm_Analysis
2
3 --Q1:which states had the highest production of crops in 2020?
4
5 select
6 state,
7 crop_Name,
8 yield_kgPerHec,
9 season,
10 production_intonns
11 FROM
12 Farm_Analysis
13 where year='Agriculture Year (Jul - Jun), 2020'
14 group by state
15 order by production_intonns DESC
16 limit 5
17
18 --Q2what are the top 5 crops with the highest yield across all years?
19 select
20 crop_Name,
21 yield_kgPerHec
22 FROM
23 Farm_Analysis
24 group by crop_Name
25 --Q3:How does crop production differ between kharif and rabi seasons across states?
26 select
27 Season,
28 sum(production_intonns)as totalproduction
29 from
30 Farm_Analysis
31 where season='Kharif'or season ='Rabi'
32 group by Season
33 order by totalproduction desc
34
35 --Q4:which crop category contributes the most to the total productuion?
36 select
37 crop_category,
38 sum(production_intonns) as totalproduction
39 FROM
40 Farm_Analysis
41 group by crop_category
42 order by totalproduction desc
43 limit 1
44
45 --Q5:what is the average yield of a wheat over the years?
46
47 select sum(yield_kgPerHec)/count(distinct year) as Avgtotalyield,
48 crop_name
49 FROM
50 Farm_Analysis
51 where crop_name='Wheat'
52 group by crop_name
53
54 --....STATE LEVEL ANALYSIS....
55
56 --Q6:what is the total area under cultivation for each crop category in each state?
57
58 select
59 state,
60 crop_category,
61 sum(Area_in_hectars) as totalarea_inhectars
62 FROM

```

```

63 Farm_Analysis
64 group by state,crop_category
65 order by totalarea_inhectars desc
66
67 --Q7:find top 5 states has the most diverse crop production ?
68 select
69 state,
70 count(distinct crop_name) as countofcrops
71 FROM
72 crop_prediction
73 group by state
74 order by countofcrops DESC
75 limit 5
76
77 --Q8:what is the trend of agricultural production in telangana state over the years?
78
79 select
80 Year,
81 sum(production_intonns) as totalproduction
82 FROM
83 Farm_Analysis
84 where
85 state='Telangana'
86 group by year
87
88 --...YEARLY TRENDS...
89 --Q:9How has the yield of crops changed over the years for a oilseeds and commercial crop category?
90 select
91 year,
92 round(avg(yield_kgPerHec),0) as total_avgyield
93 FROM
94 Farm_Analysis
95 where crop_category='Oilseeds and Commercial Crops'
96 group by year
97 order by year asc
98
99 --Q10:Identify the top 5 states with the highest yield for "Groundnut"?
100 select
101 state,
102 round(yield_kgPerHec,0)
103 FROM
104 Farm_Analysis
105 where crop_name='Groundnut'
106 group by state
107 order by yield_kgPerHec DESC
108 limit 5
109 --

```

125  
126  
127  
128  
129  
130  
131