# Cropping Exploratory Analysis

1. **Count All Crop Yield**

SELECT COUNT(\*) AS Count\_of\_Crops

FROM crop\_yield;

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1. **Count Distinct Crops**

SELECT COUNT (DISTINCT crop) AS distinct\_crops

FROM crop\_yield;

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1. **Count Crops by Type**

SELECT

CROP,

COUNT(\*) AS COUNT\_CROPS

FROM Crop\_Yield

GROUP BY CROP

ORDER BY COUNT\_CROPS DESC;

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Most frequent crop appearing in the crop yield dataset is rice.

1. **Total Production by Crop**

SELECT

CROP,

SUM(PRODUCTION) AS Total\_Production

FROM CROP\_YIELD

GROUP BY CROP

ORDER BY Total\_Production DESC;

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Crop with most production is coconut.

1. **Crop by State and Average Yield**

SELECT state, crop, avg(yield)

FROM crop\_yield

GROUP BY state, crop

ORDER BY state, avg(yield) DESC;

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1. **Coconut Average Rainfall and Average Yield by State**

SELECT

crop,

state,

ROUND(AVG(annual\_rainfall), 2) as average\_rainfall,

ROUND(AVG(yield), 2) as average\_yield

FROM crop\_yield

WHERE crop = 'Coconut '

GROUP BY crop, state

ORDER BY avg(yield) DESC;

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The State with the greatest yield for Coconuts is Telangana.

1. **Area Used for Cropping by State 2019**

SELECT

State,

SUM(area) AS Total\_Area\_Used

FROM crop\_yield

WHERE Crop\_Year = 2019

GROUP BY State

ORDER BY SUM(area) DESC;

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The greatest average area used for cropping is Madhya which used an average area of 774,189 hectares in 2019.