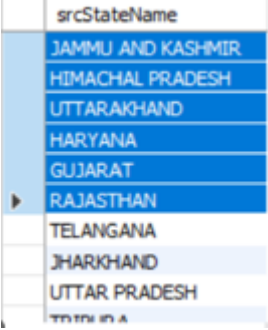


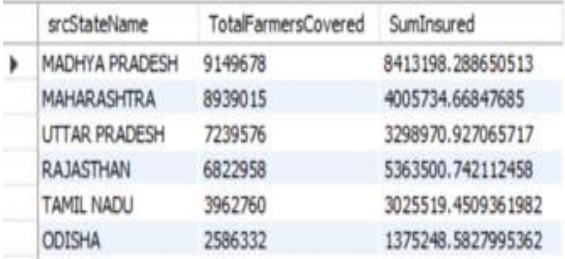
## Farmers Insurance Analysis - Assignment

Group Member: Ankit Bougal & Utkarsh Bora

Q1. Retrieve the names of all states (srcStateName) from the dataset.

Input	<pre>SELECT DISTINCT srcStateName FROM farmersinsurancedata;</pre>
Output	

Q2. Retrieve the total number of farmers covered (TotalFarmersCovered) and the sum insured (SumInsured) for each state (srcStateName), ordered by TotalFarmersCovered in descending order.

Input	<pre>SELECT srcStateName, SUM(TotalFarmersCovered) AS TotalFarmersCovered, SUM(SumInsured) AS SumInsured FROM farmersinsurancedata GROUP BY srcStateName ORDER BY TotalFarmersCovered DESC;</pre>
OutPut	

Q3. Retrieve all records where Year is '2020'.

Input	<pre>SELECT * FROM farmersinsurancedata WHERE srcYear = 2020;</pre>
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Output	srcStateName	srcDistrictName	FarmersPremiumAmount
	KARNATAKA	Chikkaballapur	0
	KARNATAKA	Chikkamagaluru	0
	KARNATAKA	Mysuru	0
	KARNATAKA	Ramanagara	0
	KARNATAKA	Shivamogga	0
	KARNATAKA	Tumakuru	0
	KARNATAKA	Udupi	0
	KARNATAKA	UttarKannada	0

Q6. Retrieve the total number of farmers covered (TotalFarmersCovered) and the sum of premiums (GrossPremiumAmountToBePaid) for each state (srcStateName) where the insured land area (InsuredLandArea) is greater than 5.0 and the Year is 2018.

Input	<pre>SELECT     srcStateName,     SUM(TotalFarmersCovered) AS TotalFarmersCovered,     SUM(GrossPremiumAmountToBePaid) AS TotalPremiumAmount FROM farmersinsurancedata WHERE InsuredLandArea &gt; 5.0 AND srcYear = 2018 GROUP BY srcStateName;</pre>																		
Output	<table><tr><th>srcStateName</th><th>TotalFarmersCovered</th><th>TotalPremiumAmount</th></tr><tr><td>JAMMU AND KASHMIR</td><td>52842</td><td>2472.040069580078</td></tr><tr><td>HIMACHAL PRADESH</td><td>64766</td><td>530.0900039672852</td></tr><tr><td>UTTARAKHAND</td><td>19726</td><td>668.5700073242188</td></tr><tr><td>HARYANA</td><td>665511</td><td>26875.559646606445</td></tr><tr><td>RAJASTHAN</td><td>1666703</td><td>114021.20956420898</td></tr></table>	srcStateName	TotalFarmersCovered	TotalPremiumAmount	JAMMU AND KASHMIR	52842	2472.040069580078	HIMACHAL PRADESH	64766	530.0900039672852	UTTARAKHAND	19726	668.5700073242188	HARYANA	665511	26875.559646606445	RAJASTHAN	1666703	114021.20956420898
srcStateName	TotalFarmersCovered	TotalPremiumAmount																	
JAMMU AND KASHMIR	52842	2472.040069580078																	
HIMACHAL PRADESH	64766	530.0900039672852																	
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HARYANA	665511	26875.559646606445																	
RAJASTHAN	1666703	114021.20956420898																	

Q7. Calculate the average insured land area (InsuredLandArea) for each year (srcYear).

Input	<pre> SELECT     srcYear,     AVG(InsuredLandArea) AS AvgInsuredLandArea FROM farmersinsurancedata GROUP BY srcYear ORDER BY srcYear; </pre>										
Output	<table> <tr> <th>srcYear</th><th>AvgInsuredLandArea</th></tr> <tr><td>2018</td><td>38.235249986316866</td></tr> <tr><td>2019</td><td>40.162162148120686</td></tr> <tr><td>2020</td><td>48.35194718522074</td></tr> <tr><td>2021</td><td>39.29111637346095</td></tr> </table>	srcYear	AvgInsuredLandArea	2018	38.235249986316866	2019	40.162162148120686	2020	48.35194718522074	2021	39.29111637346095
srcYear	AvgInsuredLandArea										
2018	38.235249986316866										
2019	40.162162148120686										
2020	48.35194718522074										
2021	39.29111637346095										

Q8. Calculate the total number of farmers covered (TotalFarmersCovered) for each district (srcDistrictName) where Insurance units is greater than 0.

Input	<pre> SELECT     srcDistrictName,     SUM(TotalFarmersCovered) AS TotalFarmersCovered FROM farmersinsurancedata WHERE InsuranceUnits &gt; 0 GROUP BY srcDistrictName ORDER BY TotalFarmersCovered DESC; </pre>														
Output	<table border="1"> <thead> <tr> <th>srcDistrictName</th><th>TotalFarmersCovered</th></tr> </thead> <tbody> <tr> <td>Bid</td><td>1430532</td></tr> <tr> <td>Latur</td><td>1184066</td></tr> <tr> <td>Nanded</td><td>739712</td></tr> <tr> <td>Osmanabad</td><td>700623</td></tr> <tr> <td>Jalna</td><td>666086</td></tr> <tr> <td>Y. H. Hain</td><td>630727</td></tr> </tbody> </table>	srcDistrictName	TotalFarmersCovered	Bid	1430532	Latur	1184066	Nanded	739712	Osmanabad	700623	Jalna	666086	Y. H. Hain	630727
srcDistrictName	TotalFarmersCovered														
Bid	1430532														
Latur	1184066														
Nanded	739712														
Osmanabad	700623														
Jalna	666086														
Y. H. Hain	630727														

Q9. For each state (srcStateName), calculate the total premium amounts (FarmersPremiumAmount, StatePremiumAmount, GOVPremiumAmount) and the total number of farmers covered (TotalFarmersCovered). Only include records where the sum insured (SumInsured) is greater than 500,000 (remember to check for scaling).

Input	<pre> SELECT     srcStateName,     SUM(FarmersPremiumAmount) AS TotalFarmersPremium,     SUM(StatePremiumAmount) AS TotalStatePremium,     SUM(GOVPremiumAmount) AS TotalGovPremium,     SUM(TotalFarmersCovered) AS TotalFarmersCovered FROM farmersinsurancedata WHERE SumInsured &gt; 500000 GROUP BY srcStateName ORDER BY TotalFarmersCovered DESC; </pre>
Output	

Q10. Retrieve the top 5 districts (srcDistrictName) with the highest TotalPopulation in the year 2020.

Input	<pre> SELECT     srcDistrictName,     TotalPopulation FROM farmersinsurancedata WHERE srcYear = 2020 ORDER BY TotalPopulation DESC LIMIT 5; </pre>
-------	--

Output	srcDistrictName	TotalPopulation
	Pune	9429408
	Thane	8070032
	Jaipur	6626178
	Nashik	6107187
	Allahabad	5954391

Q11. Retrieve the srcStateName, srcDistrictName, and SumInsured for the 10 districts with the lowest non-zero FarmersPremiumAmount, ordered by insured sum and then the FarmersPremiumAmount.

Input	<pre>SELECT     srcStateName,     srcDistrictName,     SumInsured,     FarmersPremiumAmount FROM farmersinsurancedata WHERE FarmersPremiumAmount &gt; 0 ORDER BY SumInsured ASC, FarmersPremiumAmount ASC LIMIT 10;</pre>																								
Output	<table><tr><th>srcStateName</th><th>srcDistrictName</th><th>SumInsured</th><th>FarmersPremiumAmount</th></tr><tr><td>KARNATAKA</td><td>Kalaburgi</td><td>0.0044</td><td>0.0001</td></tr><tr><td>KARNATAKA</td><td>Kolar</td><td>0.0048</td><td>0.0001</td></tr><tr><td>KARNATAKA</td><td>Davangere</td><td>0.0051</td><td>0.0001</td></tr><tr><td>KARNATAKA</td><td>Ballari</td><td>0.0052</td><td>0.0001</td></tr><tr><td>KARNATAKA</td><td>Mandya</td><td>0.0056</td><td>0.0001</td></tr></table>	srcStateName	srcDistrictName	SumInsured	FarmersPremiumAmount	KARNATAKA	Kalaburgi	0.0044	0.0001	KARNATAKA	Kolar	0.0048	0.0001	KARNATAKA	Davangere	0.0051	0.0001	KARNATAKA	Ballari	0.0052	0.0001	KARNATAKA	Mandya	0.0056	0.0001
srcStateName	srcDistrictName	SumInsured	FarmersPremiumAmount																						
KARNATAKA	Kalaburgi	0.0044	0.0001																						
KARNATAKA	Kolar	0.0048	0.0001																						
KARNATAKA	Davangere	0.0051	0.0001																						
KARNATAKA	Ballari	0.0052	0.0001																						
KARNATAKA	Mandya	0.0056	0.0001																						

Q12. Retrieve the top 3 states (srcStateName) along with the year (srcYear) where the ratio of insured farmers (TotalFarmersCovered) to the total population (TotalPopulation) is highest. Sort the results by the ratio in descending order.

Input	<pre>SELECT     srcStateName,     srcYear,     (SUM(TotalFarmersCovered) * 1.0 / SUM(TotalPopulation)) AS InsuredFarmersRatio FROM farmersinsurancedata WHERE TotalPopulation &gt; 0 -- To avoid division by zero GROUP BY srcStateName, srcYear ORDER BY InsuredFarmersRatio DESC LIMIT 3;</pre>												
Output	<table><tr><th>srcStateName</th><th>srcYear</th><th>InsuredFarmersRatio</th></tr><tr><td>CHHATTISGARH</td><td>2021</td><td>0.04981</td></tr><tr><td>TRIPURA</td><td>2020</td><td>0.04683</td></tr><tr><td>TRIPURA</td><td>2021</td><td>0.04637</td></tr></table>	srcStateName	srcYear	InsuredFarmersRatio	CHHATTISGARH	2021	0.04981	TRIPURA	2020	0.04683	TRIPURA	2021	0.04637
srcStateName	srcYear	InsuredFarmersRatio											
CHHATTISGARH	2021	0.04981											
TRIPURA	2020	0.04683											
TRIPURA	2021	0.04637											

Q13. Create StateShortName by retrieving the first 3 characters of the srcStateName for each unique state.

Input	<pre>SELECT     DISTINCT srcStateName,     LEFT(srcStateName, 3) AS StateShortName FROM farmersinsurancedata;</pre>												
Output	<table border="1"> <thead> <tr> <th>srcStateName</th><th>StateShortName</th></tr> </thead> <tbody> <tr><td>JAMMU AND KASHMIR</td><td>JAM</td></tr> <tr><td>HIMACHAL PRADESH</td><td>HIM</td></tr> <tr><td>UTTARAKHAND</td><td>UTT</td></tr> <tr><td>HARYANA</td><td>HAR</td></tr> <tr><td>GUJARAT</td><td>GUJ</td></tr> </tbody> </table>	srcStateName	StateShortName	JAMMU AND KASHMIR	JAM	HIMACHAL PRADESH	HIM	UTTARAKHAND	UTT	HARYANA	HAR	GUJARAT	GUJ
srcStateName	StateShortName												
JAMMU AND KASHMIR	JAM												
HIMACHAL PRADESH	HIM												
UTTARAKHAND	UTT												
HARYANA	HAR												
GUJARAT	GUJ												

Q14. Retrieve the srcDistrictName where the district name starts with 'B'.

Input	<pre>SELECT DISTINCT srcDistrictName FROM farmersinsurancedata WHERE srcDistrictName LIKE 'B%';</pre>						
Output	<table><tr><th>srcDistrictName</th></tr><tr><td>Bilaspur</td></tr><tr><td>Bageshwar</td></tr><tr><td>Bhiwani</td></tr><tr><td>Banswara</td></tr><tr><td>Baran</td></tr></table>	srcDistrictName	Bilaspur	Bageshwar	Bhiwani	Banswara	Baran
srcDistrictName							
Bilaspur							
Bageshwar							
Bhiwani							
Banswara							
Baran							

Q15. Retrieve the srcStateName and srcDistrictName where the district name contains the word 'pur' at the end.

Input	<pre>SELECT DISTINCT srcStateName, srcDistrictName FROM farmersinsurancedata WHERE srcDistrictName LIKE '%pur';</pre>												
Output	<table border="1"> <thead> <tr> <th>srcStateName</th><th>srcDistrictName</th></tr> </thead> <tbody> <tr><td>JAMMU AND KASHMIR</td><td>Udhampur</td></tr> <tr><td>HIMACHAL PRADESH</td><td>Bilaspur</td></tr> <tr><td>HIMACHAL PRADESH</td><td>Hamirpur</td></tr> <tr><td>RAJASTHAN</td><td>Bharatpur</td></tr> <tr><td>RAJASTHAN</td><td>Dhaulpur</td></tr> </tbody> </table>	srcStateName	srcDistrictName	JAMMU AND KASHMIR	Udhampur	HIMACHAL PRADESH	Bilaspur	HIMACHAL PRADESH	Hamirpur	RAJASTHAN	Bharatpur	RAJASTHAN	Dhaulpur
srcStateName	srcDistrictName												
JAMMU AND KASHMIR	Udhampur												
HIMACHAL PRADESH	Bilaspur												
HIMACHAL PRADESH	Hamirpur												
RAJASTHAN	Bharatpur												
RAJASTHAN	Dhaulpur												

Q16. Perform an INNER JOIN between the srcStateName and srcDistrictName columns to retrieve the aggregated FarmersPremiumAmount for districts where the district's Insurance units for an individual year are greater than 10.

Input	<pre>SELECT     f1.srcStateName,     f1.srcDistrictName,     SUM(f1.FarmersPremiumAmount) AS TotalFarmersPremium FROM farmersinsurancedata f1 INNER JOIN farmersinsurancedata f2     ON f1.srcStateName = f2.srcStateName     AND f1.srcDistrictName = f2.srcDistrictName WHERE f2.InsuranceUnits &gt; 10 GROUP BY f1.srcStateName, f1.srcDistrictName ORDER BY TotalFarmersPremium DESC;</pre>
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Output	srcStateName	srcDistrictName	TotalFarmersPremium
	MAHARASHTRA	Bid	58115.43896484375
	MADHYA PRADESH	Ujjain	49540.92138671875
	MAHARASHTRA	Latur	46801.279296875
	MADHYA PRADESH	Rajgarh	37879.83984375
	MADHYA PRADESH	Sehore	37013.95947265625

Q17. Write a query that retrieves srcStateName, srcDistrictName, Year, TotalPopulation for each district and the the highest recorded FarmersPremiumAmount for that district over all available years Return only those districts where the highest FarmersPremiumAmount exceeds 20 crores.

Input	<pre> SELECT     srcStateName,     srcDistrictName,     srcYear AS Year,     TotalPopulation,     MAX(FarmersPremiumAmount) AS HighestFarmersPremiumAmount FROM FarmersInsuranceData GROUP BY srcStateName, srcDistrictName, srcYear, TotalPopulation HAVING MAX(FarmersPremiumAmount) &gt; 2000000000 -- 20 Crores ORDER BY HighestFarmersPremiumAmount DESC; </pre>
Output	This query will return no results as dataset does not contain FarmersPremiumAmount values anywhere near 20 crores

Q18. Perform a LEFT JOIN to combine the total population statistics with the farmers' data (TotalFarmersCovered, SumInsured) for each district and state. Return the total premium amount (FarmersPremiumAmount) and the average population count for each district aggregated over the years, where the total FarmersPremiumAmount is greater than 100 crores. Sort the results by total farmers' premium amount, highest first.

Input	<pre> SELECT     f.srcStateName,     f.srcDistrictName,     SUM(f.FarmersPremiumAmount) AS TotalFarmersPremiumAmount,     AVG(f.TotalPopulation) AS AvgPopulation FROM FarmersInsuranceData f LEFT JOIN (     SELECT srcStateName, srcDistrictName, TotalPopulation     FROM FarmersInsuranceData ) p ON f.srcStateName = p.srcStateName AND f.srcDistrictName = p.srcDistrictName GROUP BY f.srcStateName, f.srcDistrictName HAVING SUM(f.FarmersPremiumAmount) &gt; 1000000000 -- 100 Crores ORDER BY TotalFarmersPremiumAmount DESC; </pre>
Output	This query will return no results as no districts meet the 100 crore threshold

Q19. Write a query to find the districts (srcDistrictName) where the TotalFarmersCovered is greater than the average TotalFarmersCovered across all records.

Input	<pre>SELECT DISTINCT srcDistrictName, srcStateName, TotalFarmersCovered FROM farmersinsurancedata WHERE TotalFarmersCovered &gt; (     SELECT AVG(TotalFarmersCovered) FROM farmersinsurancedata );</pre>																		
Output	<table><tr><th>srcDistrictName</th><th>srcStateName</th><th>TotalFarmersCovered</th></tr><tr><td>Kangra</td><td>HIMACHAL PRADESH</td><td>30868</td></tr><tr><td>Bhiwani</td><td>HARYANA</td><td>43225</td></tr><tr><td>Fatehabad</td><td>HARYANA</td><td>51867</td></tr><tr><td>Hisar</td><td>HARYANA</td><td>85052</td></tr><tr><td>Jind</td><td>HARYANA</td><td>53620</td></tr></table>	srcDistrictName	srcStateName	TotalFarmersCovered	Kangra	HIMACHAL PRADESH	30868	Bhiwani	HARYANA	43225	Fatehabad	HARYANA	51867	Hisar	HARYANA	85052	Jind	HARYANA	53620
srcDistrictName	srcStateName	TotalFarmersCovered																	
Kangra	HIMACHAL PRADESH	30868																	
Bhiwani	HARYANA	43225																	
Fatehabad	HARYANA	51867																	
Hisar	HARYANA	85052																	
Jind	HARYANA	53620																	

Q20. Write a query to find the srcStateName where the SumInsured is higher than the SumInsured of the district with the highest FarmersPremiumAmount.

Input	<pre>SELECT DISTINCT srcStateName FROM FarmersInsuranceData WHERE SumInsured &gt; (     SELECT SumInsured     FROM FarmersInsuranceData     WHERE FarmersPremiumAmount = (SELECT MAX(FarmersPremiumAmount) FROM FarmersInsuranceData)     LIMIT 1 );</pre>
Output	<p>From the dataset, the highest FarmersPremiumAmount is ₹7244.42 (for the district Bid, Maharashtra), and its SumInsured is ₹275,019.</p> <p>Since the SumInsured threshold is very low, it's highly likely that many states do not exceed this value, which is why the query returned no results.</p>

Q21. Write a query to find the srcDistrictName where the FarmersPremiumAmount is higher than the average FarmersPremiumAmount of the state that has the highest TotalPopulation.

Input	<pre>SELECT DISTINCT srcDistrictName, srcStateName, FarmersPremiumAmount FROM farmersinsurancedata WHERE FarmersPremiumAmount &gt; (     -- Subquery to get the average FarmersPremiumAmount of the state with the highest TotalPopulation     SELECT AVG(FarmersPremiumAmount)     FROM farmersinsurancedata     WHERE srcStateName = (         -- Subquery to get the state with the highest TotalPopulation         SELECT srcStateName         FROM farmersinsurancedata         ORDER BY TotalPopulation DESC         LIMIT 1     ) );</pre>																		
Output	<table><thead><tr><th>srcDistrictName</th><th>srcStateName</th><th>FarmersPremiumAmount</th></tr></thead><tbody><tr><td>Bhiwani</td><td>HARYANA</td><td>702.08</td></tr><tr><td>Fatehabad</td><td>HARYANA</td><td>1001.75</td></tr><tr><td>Hisar</td><td>HARYANA</td><td>1355.27</td></tr><tr><td>Jind</td><td>HARYANA</td><td>895.54</td></tr><tr><td>Kaithal</td><td>HARYANA</td><td>636.37</td></tr></tbody></table>	srcDistrictName	srcStateName	FarmersPremiumAmount	Bhiwani	HARYANA	702.08	Fatehabad	HARYANA	1001.75	Hisar	HARYANA	1355.27	Jind	HARYANA	895.54	Kaithal	HARYANA	636.37
srcDistrictName	srcStateName	FarmersPremiumAmount																	
Bhiwani	HARYANA	702.08																	
Fatehabad	HARYANA	1001.75																	
Hisar	HARYANA	1355.27																	
Jind	HARYANA	895.54																	
Kaithal	HARYANA	636.37																	

Q22. Use the ROW\_NUMBER() function to assign a row number to each record in the dataset ordered by total farmers covered in descending order.



Input	<pre>SELECT     ROW_NUMBER() OVER (ORDER BY TotalFarmersCovered DESC) AS RowNum,     srcStateName,     srcDistrictName,     srcYear,     TotalFarmersCovered FROM farmersinsurancedata;</pre>																														
Output	<table><tr><th>RowNum</th><th>srcStateName</th><th>srcDistrictName</th><th>srcYear</th><th>TotalFarmersCovered</th></tr><tr><td>1</td><td>MAHARASHTRA</td><td>Bid</td><td>2019</td><td>548572</td></tr><tr><td>2</td><td>MAHARASHTRA</td><td>Nanded</td><td>2021</td><td>426801</td></tr><tr><td>3</td><td>MAHARASHTRA</td><td>Latur</td><td>2019</td><td>407452</td></tr><tr><td>4</td><td>MAHARASHTRA</td><td>Bid</td><td>2018</td><td>387806</td></tr><tr><td>5</td><td>MAHARASHTRA</td><td>Latur</td><td>2021</td><td>367746</td></tr></table>	RowNum	srcStateName	srcDistrictName	srcYear	TotalFarmersCovered	1	MAHARASHTRA	Bid	2019	548572	2	MAHARASHTRA	Nanded	2021	426801	3	MAHARASHTRA	Latur	2019	407452	4	MAHARASHTRA	Bid	2018	387806	5	MAHARASHTRA	Latur	2021	367746
RowNum	srcStateName	srcDistrictName	srcYear	TotalFarmersCovered																											
1	MAHARASHTRA	Bid	2019	548572																											
2	MAHARASHTRA	Nanded	2021	426801																											
3	MAHARASHTRA	Latur	2019	407452																											
4	MAHARASHTRA	Bid	2018	387806																											
5	MAHARASHTRA	Latur	2021	367746																											

Q23. Use the RANK() function to rank the districts (srcDistrictName) based on the SumInsured (descending) and partition by alphabetical srcStateName.

Input	<pre>SELECT     srcStateName,     srcDistrictName,     SumInsured,     RANK() OVER (PARTITION BY srcStateName ORDER BY SumInsured DESC) AS RankInState FROM farmersinsurancedata ORDER BY srcStateName ASC, RankInState;</pre>																								
Output	<table><tr><th>srcStateName</th><th>srcDistrictName</th><th>SumInsured</th><th>RankInState</th></tr><tr><td>ANDHRA PRADESH</td><td>Kurnool</td><td>191969</td><td>1</td></tr><tr><td>ANDHRA PRADESH</td><td>Y.S.R.</td><td>177442</td><td>2</td></tr><tr><td>ANDHRA PRADESH</td><td>Srikakulam</td><td>149882</td><td>3</td></tr><tr><td>ANDHRA PRADESH</td><td>Prakasam</td><td>115235</td><td>4</td></tr><tr><td>ANDHRA PRADESH</td><td>Krishna</td><td>110285</td><td>5</td></tr></table>	srcStateName	srcDistrictName	SumInsured	RankInState	ANDHRA PRADESH	Kurnool	191969	1	ANDHRA PRADESH	Y.S.R.	177442	2	ANDHRA PRADESH	Srikakulam	149882	3	ANDHRA PRADESH	Prakasam	115235	4	ANDHRA PRADESH	Krishna	110285	5
srcStateName	srcDistrictName	SumInsured	RankInState																						
ANDHRA PRADESH	Kurnool	191969	1																						
ANDHRA PRADESH	Y.S.R.	177442	2																						
ANDHRA PRADESH	Srikakulam	149882	3																						
ANDHRA PRADESH	Prakasam	115235	4																						
ANDHRA PRADESH	Krishna	110285	5																						

Q24. Use the SUM() window function to calculate a cumulative sum of FarmersPremiumAmount for each district (srcDistrictName), ordered ascending by the srcYear, partitioned by srcStateName.

Input	<pre>SELECT     srcStateName,     srcDistrictName,     srcYear,     FarmersPremiumAmount,     SUM(FarmersPremiumAmount) OVER (         PARTITION BY srcStateName, srcDistrictName         ORDER BY srcYear ASC     ) AS CumulativePremium FROM farmersinsurancedata ORDER BY srcStateName, srcDistrictName, srcYear;</pre>																														
Output	<table><tr><th>srcStateName</th><th>srcDistrictName</th><th>srcYear</th><th>FarmersPremiumAmount</th><th>CumulativePremium</th></tr><tr><td>ANDHRA PRADESH</td><td>Anantapur</td><td>2018</td><td>541.83</td><td>541.8300170898438</td></tr><tr><td>ANDHRA PRADESH</td><td>Anantapur</td><td>2019</td><td>0.189</td><td>542.019017085433</td></tr><tr><td>ANDHRA PRADESH</td><td>Chittoor</td><td>2018</td><td>99.65</td><td>99.6500015258789</td></tr><tr><td>ANDHRA PRADESH</td><td>Chittoor</td><td>2019</td><td>0.4411</td><td>100.09110152721405</td></tr><tr><td>ANDHRA PRADESH</td><td>East Godavari</td><td>2018</td><td>102.6</td><td>102.5999984741211</td></tr></table>	srcStateName	srcDistrictName	srcYear	FarmersPremiumAmount	CumulativePremium	ANDHRA PRADESH	Anantapur	2018	541.83	541.8300170898438	ANDHRA PRADESH	Anantapur	2019	0.189	542.019017085433	ANDHRA PRADESH	Chittoor	2018	99.65	99.6500015258789	ANDHRA PRADESH	Chittoor	2019	0.4411	100.09110152721405	ANDHRA PRADESH	East Godavari	2018	102.6	102.5999984741211
srcStateName	srcDistrictName	srcYear	FarmersPremiumAmount	CumulativePremium																											
ANDHRA PRADESH	Anantapur	2018	541.83	541.8300170898438																											
ANDHRA PRADESH	Anantapur	2019	0.189	542.019017085433																											
ANDHRA PRADESH	Chittoor	2018	99.65	99.6500015258789																											
ANDHRA PRADESH	Chittoor	2019	0.4411	100.09110152721405																											
ANDHRA PRADESH	East Godavari	2018	102.6	102.5999984741211																											

Q25. Create a table 'districts' with DistrictCode as the primary key and columns for DistrictName and StateCode. Create another table 'states' with StateCode as primary key and column for StateName.

Input	<pre>CREATE TABLE states (     StateCode VARCHAR(10) PRIMARY KEY, -- Unique code for each state     StateName VARCHAR(255) NOT NULL    -- Name of the state );  -- Creating the 'districts' table CREATE TABLE districts (     DistrictCode VARCHAR(10) PRIMARY KEY, -- Unique code for each district     DistrictName VARCHAR(255) NOT NULL,    -- Name of the district     StateCode VARCHAR(10) NOT NULL,        -- Foreign key referencing 'states' table     FOREIGN KEY (StateCode) REFERENCES states(StateCode) ON DELETE CASCADE );</pre>																
Output	<table><thead><tr><th></th><th>Time</th><th>Action</th><th>Message</th></tr></thead><tbody><tr><td>75</td><td>22:11:33</td><td>SELECT srcStateName, srcDistrictName, srcYear, FarmersPre...</td><td>1820 row(s) returned</td></tr><tr><td>76</td><td>22:15:30</td><td>CREATE TABLE states ( StateCode VARCHAR(10) PRIMARY KEY, - ...</td><td>0 row(s) affected</td></tr><tr><td>77</td><td>22:15:31</td><td>CREATE TABLE districts ( DistrictCode VARCHAR(10) PRIMARY KEY, ...</td><td>0 row(s) affected</td></tr></tbody></table>		Time	Action	Message	75	22:11:33	SELECT srcStateName, srcDistrictName, srcYear, FarmersPre...	1820 row(s) returned	76	22:15:30	CREATE TABLE states ( StateCode VARCHAR(10) PRIMARY KEY, - ...	0 row(s) affected	77	22:15:31	CREATE TABLE districts ( DistrictCode VARCHAR(10) PRIMARY KEY, ...	0 row(s) affected
	Time	Action	Message														
75	22:11:33	SELECT srcStateName, srcDistrictName, srcYear, FarmersPre...	1820 row(s) returned														
76	22:15:30	CREATE TABLE states ( StateCode VARCHAR(10) PRIMARY KEY, - ...	0 row(s) affected														
77	22:15:31	CREATE TABLE districts ( DistrictCode VARCHAR(10) PRIMARY KEY, ...	0 row(s) affected														

Q26. Add a foreign key constraint to the districts table that references the StateCode column from a states table.

Input	<pre> ALTER TABLE districts ADD CONSTRAINT fk_statecode FOREIGN KEY (StateCode) REFERENCES states(StateCode) ON DELETE CASCADE; </pre>
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Q27. Update the FarmersPremiumAmount to 500.0 for the record where rowID is 1.

Input	<pre> UPDATE farmersinsurancedata SET FarmersPremiumAmount = 500.0 WHERE rowID = 1; </pre>
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Q28. Update the Year to '2021' for all records where srcStateName is 'HIMACHAL PRADESH'.

Input	<pre> UPDATE farmersinsurancedata SET srcYear = 2021 WHERE srcStateName = 'HIMACHAL PRADESH'; </pre>
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Q29. Delete all records where the TotalFarmersCovered is less than 10000 and Year is 2020.

Input	<pre> DELETE FROM farmersinsurancedata WHERE TotalFarmersCovered &lt; 10000 AND srcYear = 2020; </pre>
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