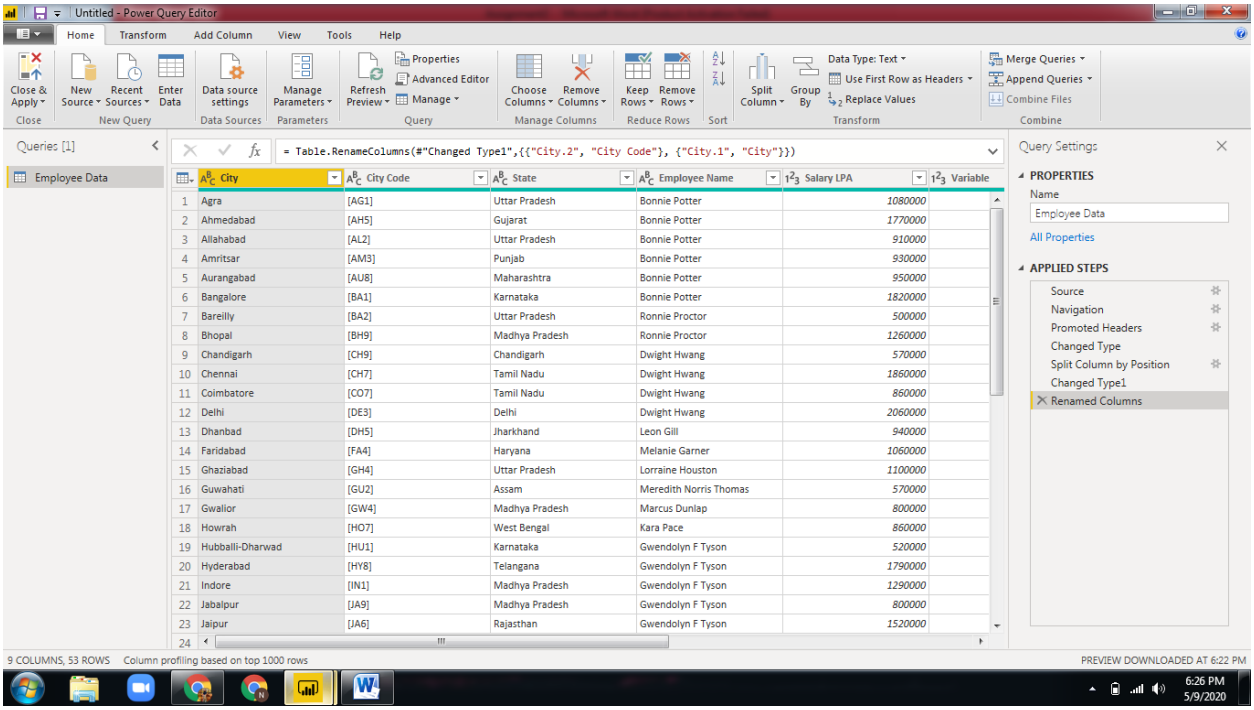
ASSIGNMENT 3

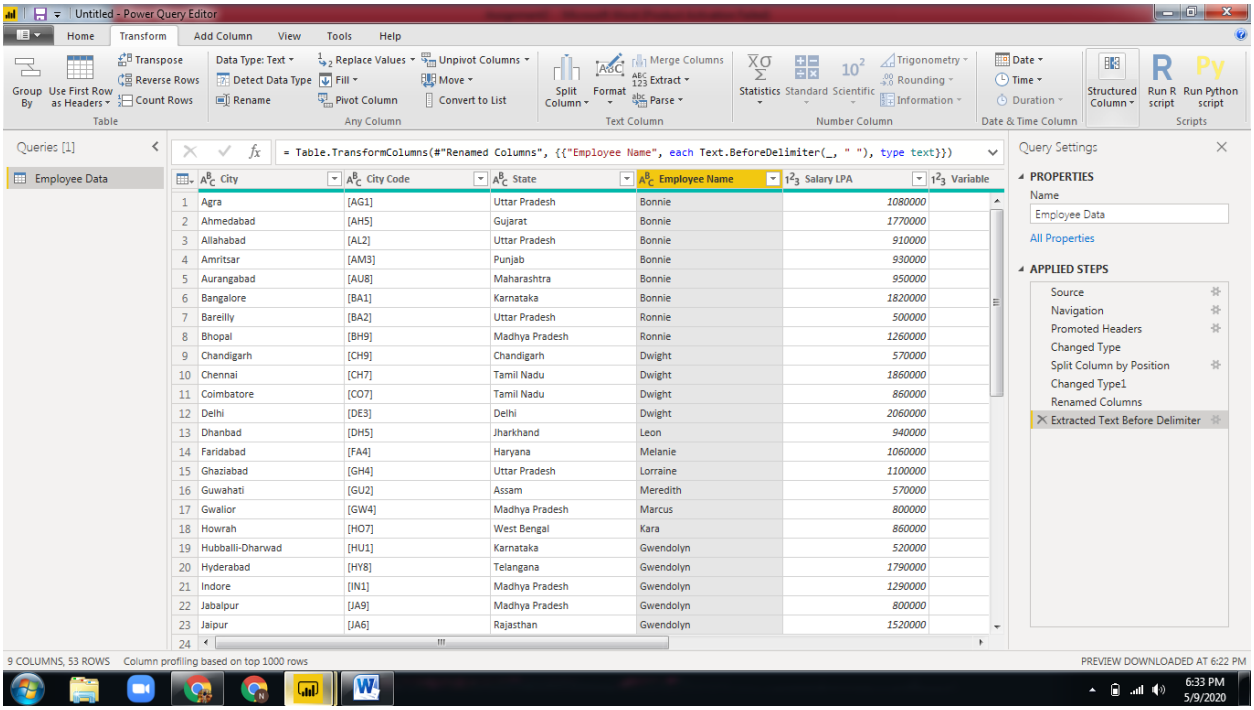
- **Use the Employee Details dataset and perform the following activities: -**

– Split the column CITY and separate the code associate with each city like - Allahabad[AL2] should be only Allahabad and [A2] will be separate.



	City	City Code	State	Employee Name	Salary LPA	Variable
1	Agra	[AG1]	Uttar Pradesh	Bonnie Potter	1080000	
2	Ahmedabad	[AH5]	Gujarat	Bonnie Potter	1770000	
3	Allahabad	[AL2]	Uttar Pradesh	Bonnie Potter	910000	
4	Amritsar	[AM3]	Punjab	Bonnie Potter	930000	
5	Aurangabad	[AU8]	Maharashtra	Bonnie Potter	950000	
6	Bangalore	[BA1]	Karnataka	Bonnie Potter	1820000	
7	Bareilly	[BA2]	Uttar Pradesh	Ronnie Proctor	500000	
8	Bhopal	[BH9]	Madhya Pradesh	Ronnie Proctor	1260000	
9	Chandigarh	[CH9]	Chandigarh	Dwight Hwang	570000	
10	Chennai	[CH7]	Tamil Nadu	Dwight Hwang	1860000	
11	Coimbatore	[CO7]	Tamil Nadu	Dwight Hwang	860000	
12	Delhi	[DE3]	Delhi	Dwight Hwang	2060000	
13	Dhanbad	[DH5]	Jharkhand	Leon Gill	940000	
14	Faridabad	[FA4]	Haryana	Melanie Garner	1060000	
15	Ghaziabad	[GH4]	Uttar Pradesh	Lorraine Houston	1100000	
16	Guwahati	[GU2]	Assam	Meredith Norris Thomas	570000	
17	Gwalior	[GW4]	Madhya Pradesh	Marcus Dunlap	800000	
18	Howrah	[HO7]	West Bengal	Kara Pace	860000	
19	Hubballi-Dharwad	[HU1]	Karnataka	Gwendolyn F Tyson	520000	
20	Hyderabad	[HY8]	Telangana	Gwendolyn F Tyson	1790000	
21	Indore	[IN1]	Madhya Pradesh	Gwendolyn F Tyson	1290000	
22	Jabalpur	[JA9]	Madhya Pradesh	Gwendolyn F Tyson	800000	
23	Jaipur	[JA6]	Rajasthan	Gwendolyn F Tyson	1520000	
24						

– Extract the first name from EMPLOYEE NAME column and transform the column.



	City	City Code	State	Employee Name	Salary LPA	Variable
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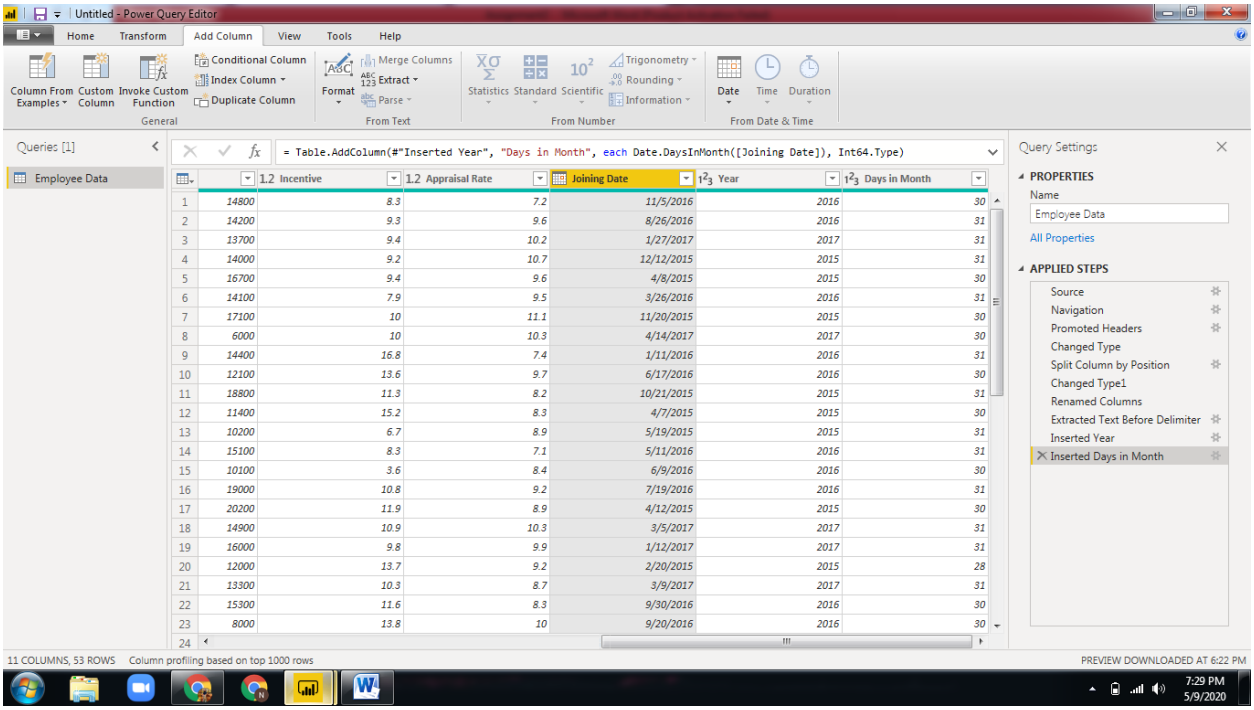
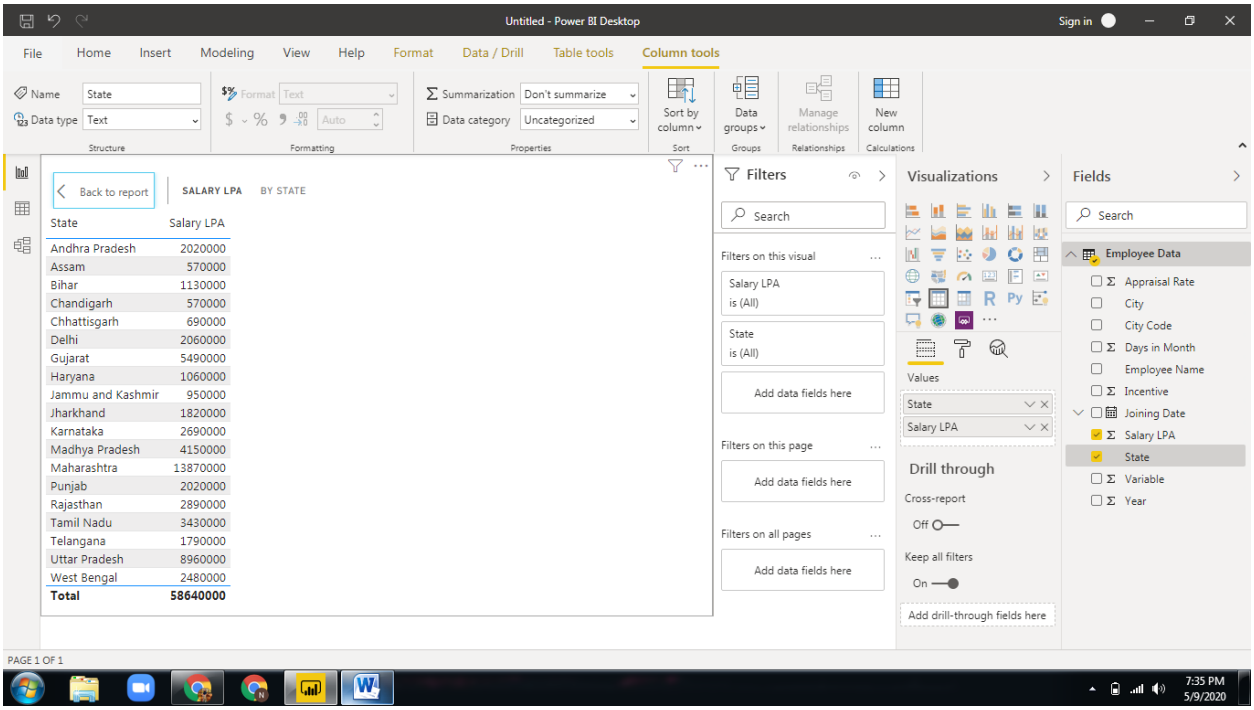
3	Allahabad	[AL2]	Uttar Pradesh	Bonnie	910000	
4	Amritsar	[AM3]	Punjab	Bonnie	930000	
5	Aurangabad	[AU8]	Maharashtra	Bonnie	950000	
6	Bangalore	[BA1]	Karnataka	Bonnie	1820000	
7	Bareilly	[BA2]	Uttar Pradesh	Ronnie	500000	
8	Bhopal	[BH9]	Madhya Pradesh	Ronnie	1260000	
9	Chandigarh	[CH9]	Chandigarh	Dwight	570000	
10	Chennai	[CH7]	Tamil Nadu	Dwight	1860000	
11	Coimbatore	[CO7]	Tamil Nadu	Dwight	860000	
12	Delhi	[DE3]	Delhi	Dwight	2060000	
13	Dhanbad	[DH5]	Jharkhand	Leon	940000	
14	Faridabad	[FA4]	Haryana	Melanie	1060000	
15	Ghaziabad	[GH4]	Uttar Pradesh	Lorraine	1100000	
16	Guwahati	[GU2]	Assam	Meredith	570000	
17	Gwalior	[GW4]	Madhya Pradesh	Marcus	800000	
18	Howrah	[HO7]	West Bengal	Kara	860000	
19	Hubballi-Dharwad	[HU1]	Karnataka	Gwendolyn	520000	
20	Hyderabad	[HY8]	Telangana	Gwendolyn	1790000	
21	Indore	[IN1]	Madhya Pradesh	Gwendolyn	1290000	
22	Jabalpur	[JA9]	Madhya Pradesh	Gwendolyn	800000	
23	Jaipur	[JA6]	Rajasthan	Gwendolyn	1520000	

– Using the JOINING DATE column extract the Year and no. of days for that month .



	Incentive	Appraisal Rate	Joining Date	Year	Days in Month
1	14800	8.3	7.2	11/5/2016	2016	30
2	14200	9.3	9.6	8/26/2016	2016	31
3	13700	9.4	10.2	1/27/2017	2017	31
4	14000	9.2	10.7	12/12/2015	2015	31
5	16700	9.4	9.6	4/8/2015	2015	30
6	14100	7.9	9.5	3/26/2016	2016	31
7	17100	10	11.1	11/20/2015	2015	30
8	6000	10	10.3	4/14/2017	2017	30
9	14400	16.8	7.4	1/11/2016	2016	31
10	12100	13.6	9.7	6/17/2016	2016	30
11	18800	11.3	8.2	10/21/2015	2015	31
12	11400	15.2	8.3	4/7/2015	2015	30
13	10200	6.7	8.9	5/19/2015	2015	31
14	15100	8.3	7.1	5/11/2016	2016	31
15	10100	3.6	8.4	6/9/2016	2016	30
16	19000	10.8	9.2	7/19/2016	2016	31
17	20200	11.9	8.9	4/12/2015	2015	30
18	14900	10.9	10.3	3/5/2017	2017	31
19	16000	9.8	9.9	1/12/2017	2017	31
20	12000	13.7	9.2	2/20/2015	2015	28
21	13300	10.3	8.7	3/9/2017	2017	31
22	15300	11.6	8.3	9/30/2016	2016	30
23	8000	13.8	10	9/20/2016	2016	30

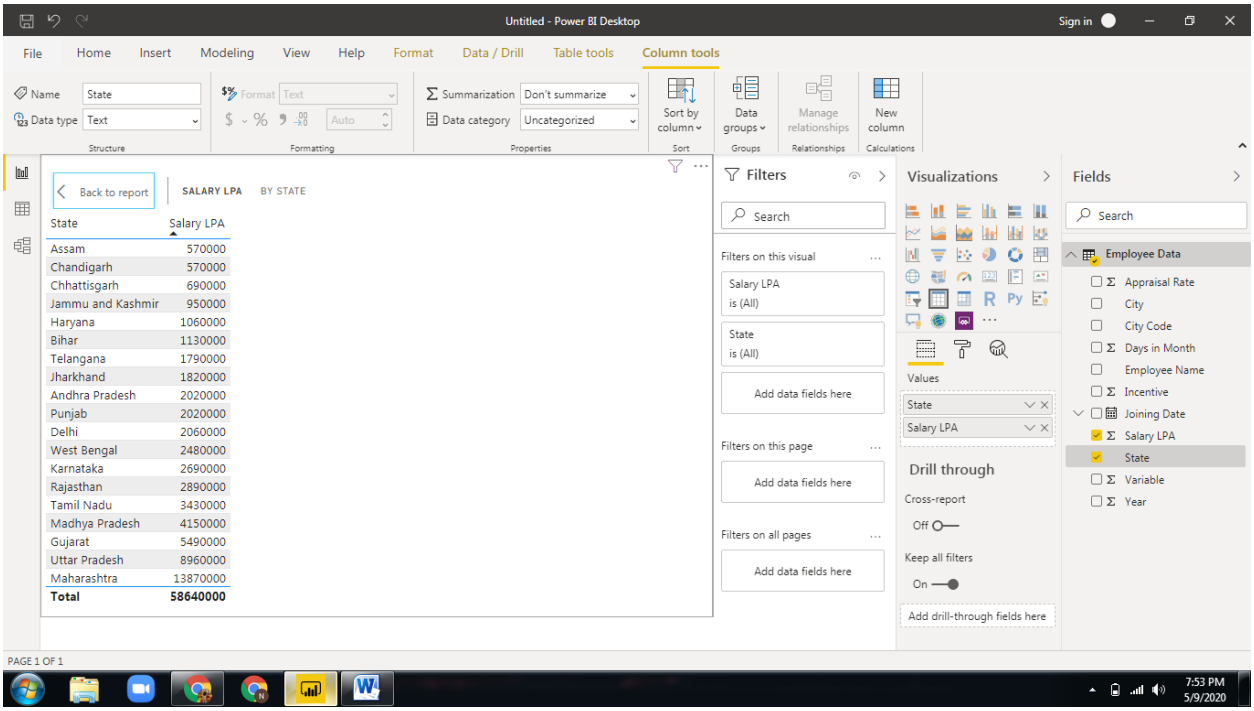
– Create a visual of your choice and show how much salary has been paid to each state and which state has lowest payout.



$$Payout = \frac{Dividends}{Net\ Income}$$

Dividends are only payable from post-tax profits so, since we are not yet turning a profit and need to take out funds, we will consider doing this via a salary instead.

So, payout will be directly proportional to salary.



Since **Assam** & **Chandigarh** have the lowest salaries, they would have the lowest payout values as well.