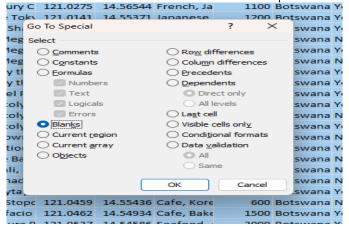
Name	SHANTANU KAUSHIK [ABADS BATCH 16]				
Email	shankshk@gmail.com				
Phone	9887779477				
	<del>-</del>				
Project Overview:	Zomato, a leading restaurant aggregator and food delivery service, operates across multiple countries, helping				
	users discover restaurants, review ratings, and place orders. With increasing competition in the restaurant and food delivery industry, Zomato aims to enhance its decision-making capabilities through data-driven insights				
	about its restaurant partners, customer preferences, and service performance.				
Task 1	Task 1: Cleaning the Dataset for Accurate Restaurant Listings				
	Scenario: Zomato's dataset contains duplicate entries and missing values. Learners will clean the data,				
	ensuring all future analyses is based on reliable information.				
	•Steps: Remove duplicates, handle missing values, and ensure the dataset is prepared for further analysis.				
	•Deliverable: A clean dataset, free from duplicates and missing values, forming a reliable foundation for				
	subsequent tasks.				
Solution Task 1	Remove duplicates				
	Data tab -> Remove Duplicates.				
	Connections 2				
	om From Other ext Sources Connections Existing ext Sources Connections Sort & Filter Advanced Sources Connections Sort & Filter Columns Duplicates Validation Columns Duplicates Validatio				
	Remove Duplicates ? X				
	B To delete duplicate values, select one or more columns that contain duplicates.  Stauran  My data has headers  My data has headers				
	akaya Ki				
	pma Restaurant ID  mbo Ko Restaurant Name				
	n Tai Fu iffet 101  City  Country Code				
	kings				
	Cavore   Locality Verbose   Longitude				
	ad Mark  Cuisines  Lantro Fi  Average Cost for two				
	Jevarra':   ☑ Currency ☑ Has Table booking				
	ife Arab pnna's p Switch to order menu				
	lay Daki bing Kc  Price range  Agregate rating				
	ildflour  U by Vii   Rating color  Rating text				
	OK Cancel				
I					

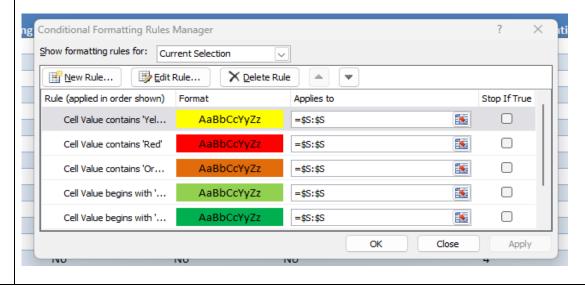


Home tab→ Find and Select→ Go to Special→ Blanks and click OK which highlights all blank cells.

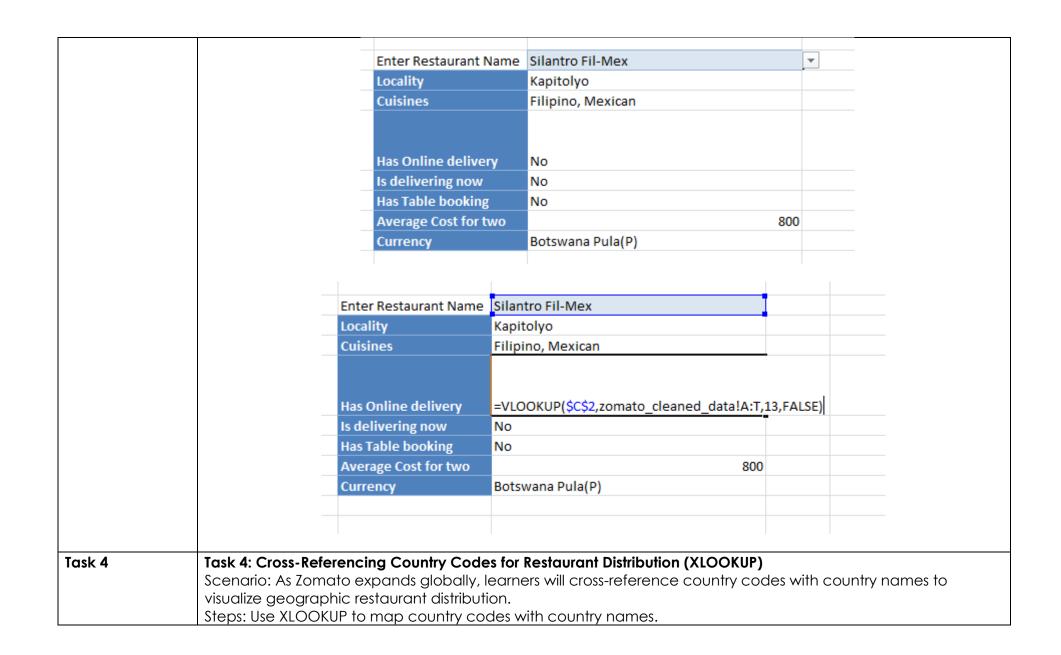


## Format data

Format the data to as per given formats. Do Freeze Panes to scroll with ease. Do Conditional Formating for Rating.

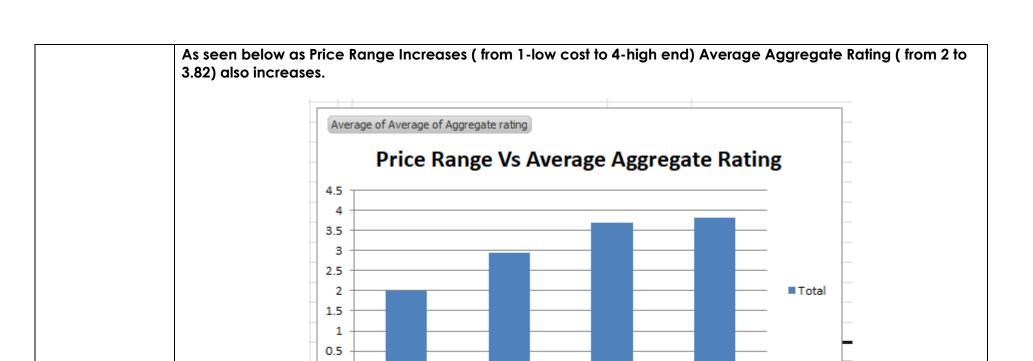


Task 2	Task -2 Categorizing Restaurants by Customer Ratings Scenario: Zomato wants to categorize restaurants based on customer ratings to identify top and underperforming venues. Steps: Categorize restaurants into rating groups (Excellent, Good, Average, Poor), and summarize performance by rating. Deliverable: A summary table categorizing restaurant performance based on customer ratings.				
Solution Task 2		Row Labels ▼ No of Res	staurants		
		Average	3737		
		Excellent	301		
		Good	2100		
		Not rated	2148		
		Poor	186		
		Very Good	1079		
		(blank)			
		<b>Grand Total</b>	9551		
Task 3	Task 3: Verifying Service Availability in Specific Cities (VLOOKUP)  Scenario: Customers search for specific services, such as table booking or online delivery. Zomato needs to verify which restaurants in each city offer these services.  Steps: Use VLOOKUP to match restaurants offering specific services.  Deliverable: A table summarizing service availability across cities, including table booking and online delivery services.				
Solution Task 3	Have Created Drop Down List by using Data Tab → Data Validation→ Settings Allow "List"→ Select Cells of Restaurant names.				
	Then used V look up to fetch columns as per value of Dropdown. User has to only enter Restaurant Name and other fields are fetched automatically by Vlookup.				



	Deliverable: A dataset showing the country name corresponding to each restaurant.					
Solution Task 4	I have Excel 2010 and hence do not have XLOOKUP but have used VLOOKUP to create dataset and a convenient dropdown menu.					
		Enter Restaurant Name	Solita Solita	<b>*</b>		
		Country Code	2	215		
		Country	United Kingdom			
	Restaurant Name   Countr	y Code Country				
	Ooma 162	Phillipines				
	Spiral - Sofitel Phil 162	Phillipines				
	Silantro Fil-Mex 162	Phillipines				
	Coco Bambu 30	Brazil				
	Braseiro da Gíçvea 30	Brazil				
	Garota de Ipanema 30	Brazil				
	Rae's Coastal Cafe 216	United States				
	Shorts Burger and 216	United States				
	Oakwood Cafe 216	United States				
	Tantra Asian Bistro 216	United States				
	The Cafe 216	United States				
	Atlanta Highway Se 216	United States				
	Ingleside Village P 216 Pom Pom's Teahou 216	United States United States				
	Yellow Dog Eats 216	United States				
	McGuire's Irish Put 216	United States				
			Task-3 Country Codes Task-4 Sheet3	<b>*</b>		
T. 1 C	Total F. Annah sing Contains a Bustiness by Coline (INDEV MATCH)					
Task 5	Task 5: Analyzing Customer Preferences by Cuisine (INDEX-MATCH)  Scenario: Zomato wants to understand customer preferences by cuisine type, helping optimize restaurant					
		vants to understand custor	ner preferences by cuisine type	e, neiping optimize restaurant		
	recommendations.					
	•	•	-reference customer preferenc	ces by cuisine across cities.		
	Deliverable: A sumi	mary of customer preference	ces by cuisine and city.			

Solution Task 5				
Sololion rask S	Row Labels	<u>+1</u>	Average of Aggregate rating	
	□ Abu Dhabi		4.3	
	Indian, North Indian		4.9	
	Asian		4.6	
	American, Desserts		4.6	
	American		4.6	
	Filipino, Japanese, Asian		4.5	
	) Indian		4.5	
	Thai, Japanese, Chinese, Indonesian, Vietnam	nese	4.4	
	2 Turkish, Arabian, Middle Eastern		4.3	
	3 Italian, Pizza		4.25	
	Fast Food, Burger		4.2	
	Chinese Lebanese, Arabian, Middle Eastern		4.2	
	Eebanese, Arabian, Middle Eastern		4	
	7 Pakistani, Afghani, Indian, Hyderabadi		4	
	3 American, Mexican, Seafood		4	
	Indian, North Indian, Chinese		4	
	Indian, North Indian, Mughlai, Biryani		4	
	L Indian, South Indian		3.6	
	2		3.965	
	Task-2 Task-2(b) Summary Task-3	Country Codes / Task-4   Task-5 / 🖫 /	] 4	
Task 6	Task 6: Price Range and Ratings			
	Scenario: Learners will analyze	how restaurant price ranges affe	ect customer satisfaction, prov	iding insight into
	pricing strategy.			0 0
			· ····································	
		pare ratings by price range, and		
	Deliverable: A Pivot Table show	ring restaurant ratings by price re	ange, with accompanying cho	ırts.
Solution Task 6			1	
		Row Labels Average of Ag	ggregate rating	
		1	2.00	
		2	2.94	
		3	3.68	
		4	3.82	
		(blank)		
		Grand Total	2.67	



2

Task 7: Geographic Heatmap of Restaurant Density and Ratings

1

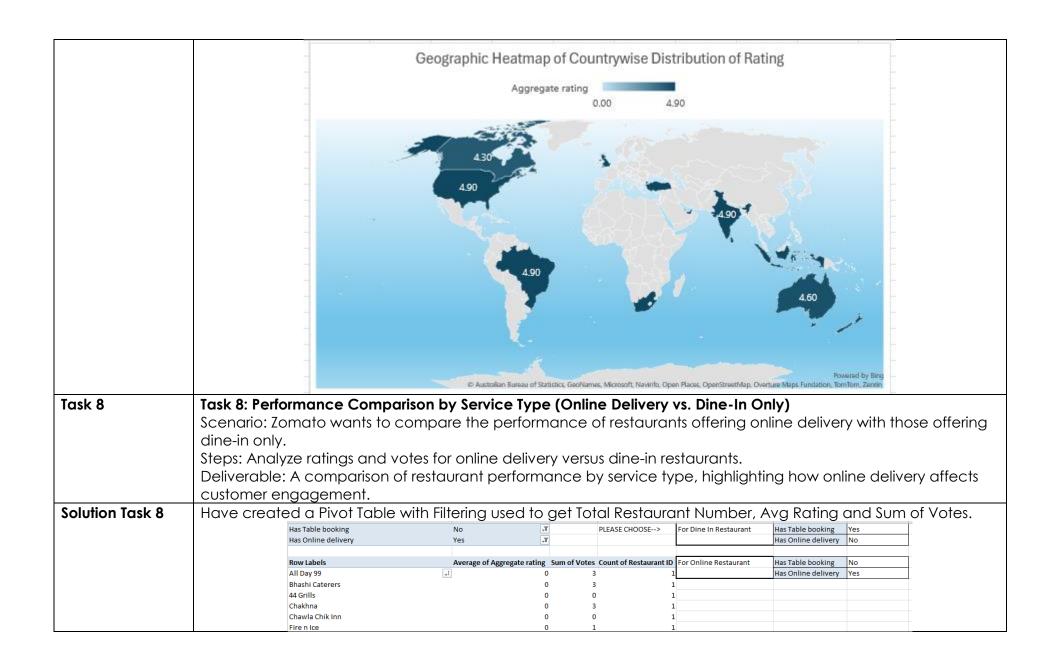
Row Labels V

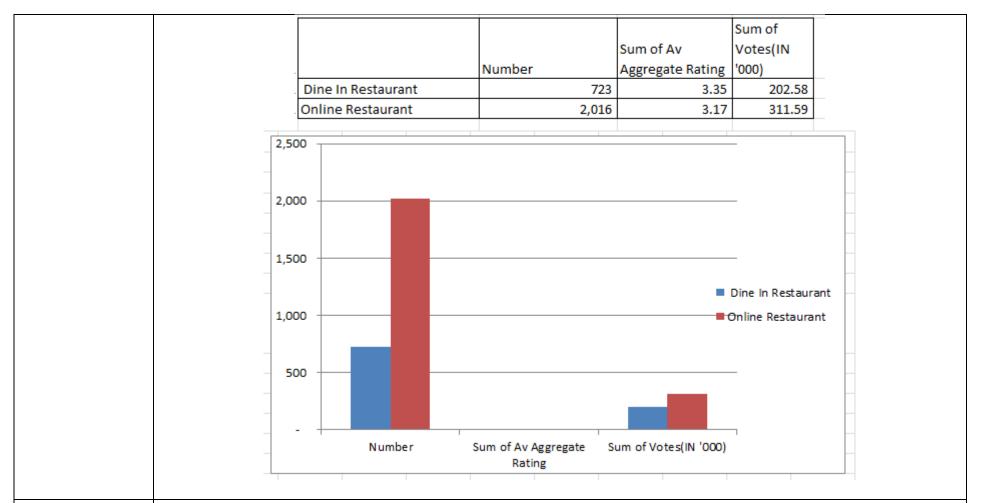
Scenario: Zomato's leadership team needs to understand how restaurant density and customer ratings are distributed geographically.

Steps: Use geographic data to create a heatmap showing restaurant density and customer satisfaction by city. Deliverable: A geographic heatmap visualizing restaurant distribution and performance across cities.

3

Solution Task 7





Task 9 Task 9: What-If Analysis for Business Growth

Scenario: Zomato wants to forecast how changes, such as expanding online delivery or adjusting price ranges, might impact customer satisfaction.

Steps: Use What-If Analysis (Scenario Manager or Goal Seek) to simulate different business scenarios. Deliverable: A report detailing the potential impact of changes in service offerings or price on customer satisfaction and engagement.

## Solution Task 9 Page Layout Formulas Data Review Connections From From Other Existing Refresh Text to Remove Data Consolidate What-If Advanced Columns Duplicates Validation Sources \* Get External Data Scenario Manager... fx =D7 Goal Seek.. D As per Regression Test the equation for Predicting Rating Based on Online Delivery and Price Range is given as Phice Predicted Rating = 0.5474 + 0.6691\*(Online Delivery) + 0.7081\*(Price Range) Online Delivery 1 (No - 1 and Yes - 2) Price Range 1.92 **Predicted Rating** 1.92 1.9246 2.5937 3.2628 3.9319 Spiral - Sofitel Philippine Plaza Manila 2.5937 3.2628 3.9319 Silantro Fil-Mex 1.9246 2.5937 3.2628 3.9319 1.9246 2.5937 3.2628 3.9319 Braseiro da Gíçvea 1.9246 2.5937 3.2628 3.9319 Garota de Ipanema 1.9246 2.5937 3.2628 3.9319 Rae's Coastal Cafe 1.9246 2.5937 3.2628 3.9319 Shorts Burger and Shine 3.9319 2.5937 3.2628 1.9246 Oakwood Cafe 1.9246 2.5937 3.2628 3.9319 Tantra Asian Bistro 3.9319 1.9246 2.5937 3.2628 The Cafe 1.9246 3.2628 3.9319 Atlanta Highway Seafood Market 3.9319 3.2628 1.9246 Ingleside Village Pizza 3.9319 1.9246 2.5937 3.2628 Pom Pom's Teahouse and Sandwicheria 1.9246 2.5937 3.2628 3.9319 Tack-2 / Country Codes / Tack-4 / Tack-5 / Tack-6 / Cheet? | Represeion Tack / Cheet? | Tack 0 / \$1

Using Regression analysis, we have found the equation predicting the rating for a particular restaurant based on Price Range (1 to 4) and Online Delivery presence (No -1 and Yes is 2).

We used What-if analysis to create Data Table having various scenario of Price Range (Column) and Online Presence (Row). We have found out that <u>Increased Online Presence increases the rating</u>. <u>Further Increased Price Range also increases the rating</u>. Below is the screenshot if every restaurant is made online (by changing to 2-yes) and its rating increases.

