

Data Analysis Project

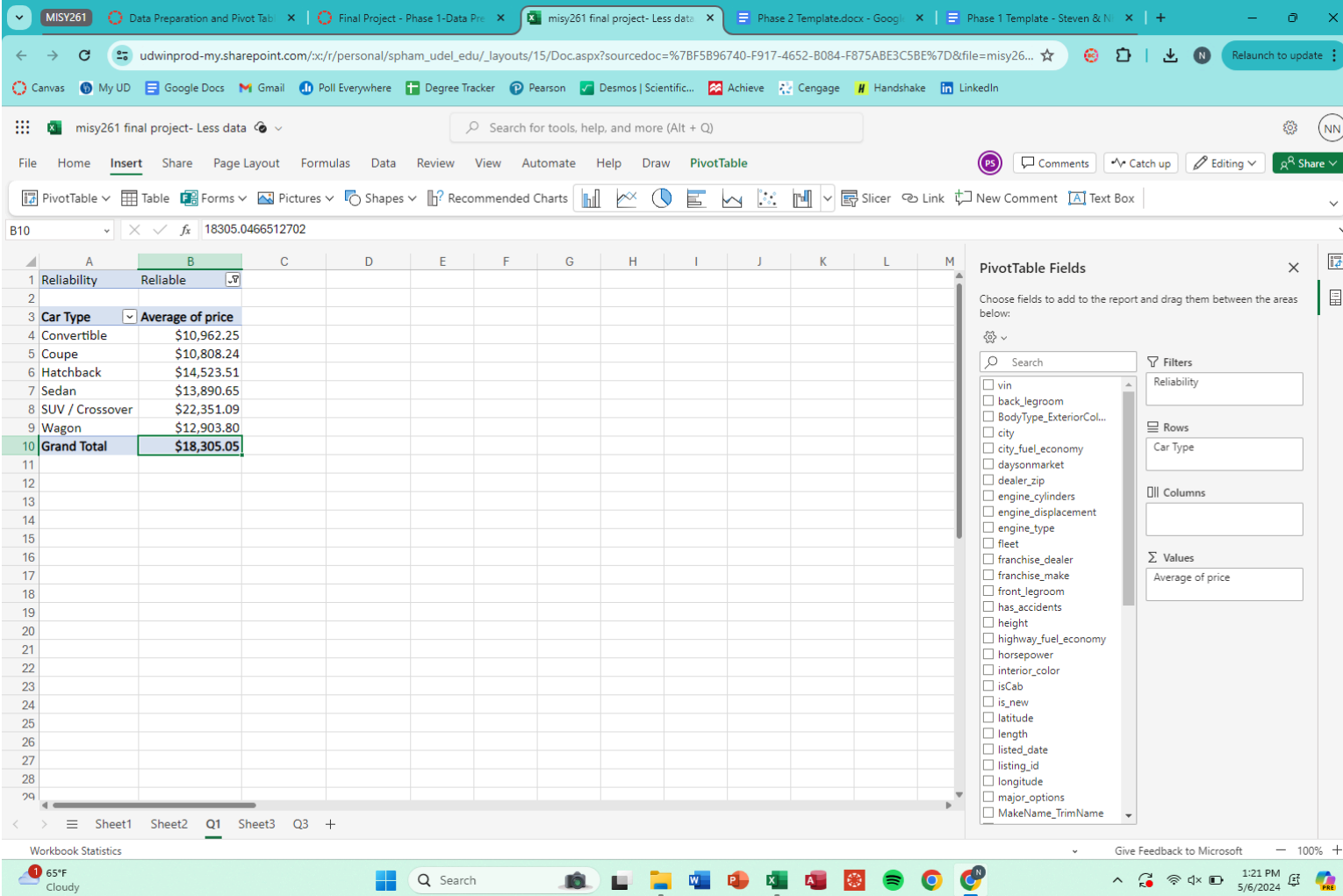
Your name Team members' names

Nhinhi Nguyen and Steven Pham

10 questions that you want to answer and the screenshots of Excel pivot tables and charts

Please type your questions here and put the screenshots of **both pivot table and pivot chart** under each question...

1. What is the average price for all types of cars that are reliable?



The screenshot shows an Excel spreadsheet with a PivotTable and the PivotTable Fields task pane. The PivotTable is located in the range B10:B11 and shows the average price of cars by type, filtered by reliability. The PivotTable Fields task pane is on the right, showing the fields used in the PivotTable.

Car Type	Average of price
Convertible	\$10,962.25
Coupe	\$10,808.24
Hatchback	\$14,523.51
Sedan	\$13,890.65
SUV / Crossover	\$22,351.09
Wagon	\$12,903.80
Grand Total	\$18,305.05

The PivotTable Fields task pane shows the following fields:

- Filters: Reliability
- Rows: Car Type
- Columns: (empty)
- Values: Average of price

2. What is the percentage of overall cars that are considered to have low mileage?

misY261 Data Preparation and Pivot Tab Final Project - Phase 1-Data Pre misy261 final project- Less data Phase 2 Template.docx - Google Phase 1 Template - Steven & N

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File Home Insert Share Page Layout Formulas Data Review View Automate Help Draw PivotTable

PivotTable Table Forms Pictures Shapes Recommended Charts Slicer Link New Comment Text Box

B6 100%

	A	B	C	D	E	F	G	H	I	J	K	L
2	Fuel Mileage Categorized	Count of vin										
3	High Mileage	5.83%										
4	Low Mileage	67.56%										
5	Medium Mileage	26.61%										
6	Grand Total	100.00%										
7												
8												
9												
10												
11												
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PivotTable Fields

Choose fields to add to the report and drag them between the areas below:

Search Filters

☒ vin
☐ back_legroom
☐ BodyType_ExteriorCol...
☐ city
☐ city_fuel_economy
☐ daysonmarket
☐ dealer_zip
☐ engine_cylinders
☐ engine_displacement
☐ engine_type
☐ fleet
☐ franchise_dealer
☐ franchise_make
☐ front_legroom
☐ has_accidents
☐ height
☐ highway_fuel_economy
☐ horsepower
☐ interior_color
☐ isCab
☐ is_new
☐ latitude
☐ length
☐ listed_date
☐ listing_id
☐ longitude
☐ major_options
☐ MakeName_TrimName

Rows
Fuel Mileage Categorized

Columns

Values
Count of vin

Workbook Statistics

65°F Cloudy

Search

1:25 PM 5/6/2024

3. What are the top 10 highest seller-rating big family cars?

AutoSave misy261 final project- Less data — Saved

Home Insert Draw Page Layout Formulas Data Review View Automate PivotTable Analyze Design Tell me

Paste Calibri (Body) 12

B6 4.70668859649123

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1																								
2	Family Type	Big family	-T																					
3																								
4	Row Labels	Average of seller_rating																						
5	Prizm	4.75																						
6	xD	4.71																						
7	Crosstrek	4.57																						
8	Rogue Sport	4.54																						
9	Matrix	4.38																						
10	ECHO	4.36																						
11	EcoSport	4.36																						
12	Civic Coupe	4.32																						
13	Cruze	4.29																						
14	Fiesta	4.27																						
15	Grand Total	4.35																						
16																								
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43																								
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45																								

Sheet1 Sheet2 Q1 Q2 Q3 Q4 Q5 Q6 +

Ready Accessibility: Investigate 100%

PivotTable Fields

FIELD NAME Search fields

- ☐ vin
- ☐ back_legroom
- ☐ BodyType_ExteriorColor
- ☒ city
- ☐ city_fuel_economy
- ☐ daysonmarket

Filters **Columns**

Rows **Values**

: model_name : Average of selle...

Drag fields between areas

4. In what types of cars do most accidents occur?

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PivotTable Table Forms Pictures Shapes Recommended Charts Slicer Link New Comment Text Box

B4 132

Count of vin	has_accidents	Grand Total
Sedan	132	132
SUV / Crossover	95	95
Hatchback	87	87
Wagon	43	43
Coupe	7	7
Convertible	1	1
Grand Total	365	365

PivotTable Fields

Choose fields to add to the report and drag them between the areas below:

Search

Filters

Rows

Columns

Values

vin
back_legroom
BodyType_ExteriorCol...
city
city_fuel_economy
daysonmarket
dealer_zip
engine_cylinders
engine_displacement
engine_type
fleet
franchise_dealer
franchise_make
front_legroom
has_accidents
height
highway_fuel_economy
horsepower
interior_color
isCab
is_new
latitude
length
listed_date
listing_id
longitude
major_options
MakeName_TrimName

Workbook Statistics

Russell 2000 +1.23%

Search

Give Feedback to Microsoft 100%

1:38 PM 5/6/2024

5. What are the maximum prices for cars that are over the year 2015?

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PivotTable Table Forms Pictures Shapes Recommended Charts Slicer Link New Comment Text Box

B3 15000

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2	year	Maximum Price												
3	2015	\$15,000.00												
4	2016	\$24,265.00												
5	2017	\$111,111.00												
6	2018	\$25,495.00												
7	2019	\$28,995.00												
8	2020	\$30,110.00												
9	Grand Total	111111												
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29														

PivotTable Fields

Choose fields to add to the report and drag them between the areas below:

Search Filters

vin
back_legroom
BodyType_ExteriorCol...
city
city_fuel_economy
daysonmarket
dealer_zip
engine_cylinders
engine_displacement
engine_type
fleet
franchise_dealer
franchise_make
front_legroom
has_accidents
height
highway_fuel_economy
horsepower
interior_color
isCab
is_new
latitude
length
listed_date
listing_id
longitude
major_options
MakeName_TrimName

Rows
year

Columns

Values
Maximum Price

Workbook Statistics
Russell 2000 +1.23%

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6. What is the average price for family-type cars and their models?

AutoSave misy261 final project- Less data — Saved

Home Insert Draw Page Layout Formulas Data Review View Automate PivotTable Analyze Design Tell me Comments Share

Paste Calibri (Body) 12

A5 Accent

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
3	Row Labels	Average of price															
4	Big family	\$17,913.41															
5	Accent	\$12,051.66															
6	Astra	\$2,999.00															
7	Aveo	\$5,081.44															
8	Civic	\$5,334.40															
9	Civic Coupe	\$4,591.40															
10	Civic Hybrid	\$4,484.00															
11	Corolla	\$8,565.35															
12	Corolla iM	\$15,972.33															
13	Countryman	\$13,774.46															
14	Crosstrek	\$24,333.00															
15	Cruze	\$8,036.47															
16	Cruze Limited	\$10,582.09															
17	ECHO	\$4,068.67															
18	EcoSport	\$20,993.92															
19	Fiesta	\$10,988.53															
20	Fit	\$15,407.41															
21	HR-V	\$22,731.96															
22	IA	\$10,720.25															
23	IM	\$13,184.43															
24	Jetta	\$9,312.56															
25	Kicks	\$18,168.58															
26	Matrix	\$4,838.17															
27	Prizm	\$3,996.00															
28	Rio	\$13,460.56															
29	RioS	\$14,416.00															
30	Rogue Sport	\$15,790.00															
31	S-Series	\$745.00															
32	Sentra	\$15,001.69															
33	Sonic	\$8,953.83															
34	Soul	\$12,791.72															
35	Venue	\$19,434.50															
36	Versa	\$14,353.84															
37	Versa Note	\$10,152.22															
38	Vibe	\$5,732.33															
39	xD	\$6,498.00															
40	Yaris	\$12,079.84															
41	Yaris iA	\$14,678.97															
42	Single/Coupe	\$8,643.00															
43	Cooper Coupe	\$7,498.00															
44	MX-5 Miata	\$7,239.00															
45	Roadster	\$14,000.00															
46	Small family	\$10,638.79															

Sheet1 Sheet2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 +

Ready Accessibility: Investigate 100%

PivotTable Fields

FIELD NAME Search fields

- ☐ vin
- ☐ back_legroom
- ☐ BodyType_ExteriorColor
- ☐ city
- ☐ city_fuel_economy
- ☐ daysonmarket

Filters Columns

Rows Values

- Family Type
- model_name
- Average of price

Drag fields between areas

7. What is the average owner count for small family and big family cars?

The screenshot shows a Microsoft Excel spreadsheet with a PivotTable. The PivotTable is located in the range B3:B39, with 'Row Labels' in column B and 'Average of owner_count' in column C. The data is sorted by 'Family Type' in ascending order. The PivotTable Fields task pane is open on the right, showing 'Family Type' as the filter and 'model_name' as the row label. The 'Average of owner_count' is the value field.

Family Type	model_name	Average of owner_count
Big family		1.19
Prizm		5.00
S-Series		3.50
Astra		3.00
Vibe		2.83
Civic Coupe		2.60
ECHO		2.33
Matrix		2.17
xD		2.00
Jetta		2.00
Civic Hybrid		2.00
IM		1.86
Countryman		1.85
Cruze		1.76
Aveo		1.67
Cruze Limited		1.64
Corolla		1.61
Civic		1.60
IA		1.56
Sonic		1.50
Versa Note		1.47
Yaris		1.32
Accent		1.30
Versa		1.25
Rio		1.24
Fiesta		1.24
Fit		1.18
Soul		1.18
Yaris iA		1.11
Sentra		1.07
Corolla iM		1.07
HR-V		1.05
EcoSport		1.05
RioS		1.00
Crosstrek		1.00
Kicks		1.00

8. What is the average number of days on market for different family type cars and their models?

Excel File Edit View Insert Format Tools Data Window Help

msisy261 final project- Less data - Saved

Search (Cmd + Ctrl + U)

Home Insert Draw Page Layout Formulas Data Review View Automate PivotTable Analyze Design

Calibri (Body) 12 A⁺ A⁻

B I U A

Wrap Text

General

Conditional Formatting Format as Table Cell Styles

Insert Delete Format

Sort & Filter Find & Select

Sensitivity Add-ins Analyze Data

Comments Share

fx Accent

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
4	Big family	75.79															
5	Accent	64.93															
6	Astra	40.00															
7	Aveo	19.11															
8	Civic	16.40															
9	Civic Coupe	14.40															
10	Civic Hybrid	19.67															
11	Corolla	18.29															
12	Corolla iM	37.33															
13	Countryman	20.23															
14	Crosstrek	14.00															
15	Cruze	29.44															
16	Cruze Limited	47.73															
17	ECHO	7.00															
18	EcoSport	163.28															
19	Fiesta	59.91															
20	Fit	58.72															
21	HR-V	66.38															
22	IA	33.88															
23	IM	94.57															
24	Jetta	25.67															
25	Kicks	70.74															
26	Matrix	21.83															
27	Prizm	15.00															
28	Rio	122.67															
29	RioS	17.00															
30	Rogue Sport	77.00															
31	S-Series	61.50															
32	Sentra	77.50															
33	Sonic	27.79															
34	Soul	42.52															
35	Venue	18.50															
36	Versa	103.07															
37	Versa Note	39.11															
38	Vibe	103.00															
39	xD	32.00															
40	Yaris	45.89															
41	Yaris iA	25.25															
42	Single/Couple	8.00															

PivotTable Fields

FIELD NAME Search fields

vin
back_legroom
BodyType_ExteriorColor
city
city_fuel_economy

Filters Columns

Rows Values

Family Type
model_name

Average of days...

Drag fields between areas

Sheet1 Sheet2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q10 +

Ready Accessibility: Investigate

9. What is the minimum, average, and maximum price of different car types that are unreliable?

The screenshot shows an Excel spreadsheet with a PivotTable and its field list. The PivotTable is located in the range A4:R10. The field list on the right shows the following fields:

- vin
- back_legroom
- BodyType_ExteriorColor
- city
- city_fuel_economy

The PivotTable data is as follows:

Reliability	Min of price	Average of price	Max of price
Convertible	\$8,484.00	\$8,484.00	\$8,484.00
Coupe	\$2,295.00	\$6,364.13	\$10,500.00
Hatchback	\$2,500.00	\$10,664.73	\$17,988.00
Sedan	\$495.00	\$10,663.91	\$16,988.00
SUV / Crossover	\$13,000.00	\$18,373.76	\$23,880.00
Wagon	\$4,466.00	\$11,908.61	\$15,654.00
Grand Total	\$495.00	\$12,623.97	\$23,880.00

10. How do the car types compare for city economy fuel and highway economy fuel?

Phase 2 Template- steven & nh...misy261 final project- Less data...Phase 1 Template - Steven & Nh...+

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misy261 final project- Less data

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FileHomeInsertSharePage LayoutFormulasDataReviewViewAutomateHelpDraw

PivotTableTableFormsPicturesShapesRecommended ChartsSlicerLinkNew CommentText Box

F20

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2													
3													
4	Count of vin	Highway Fuel Consumption	City Fuel Consumption										
5		Low Highway Fuel	Low Highway Fuel Total	Medium Highway Fuel									
6	Car Type	Low City Fuel		Low City Fuel	Medium City Fuel	Medium Highway Fuel Total	Grand Total						
7	Convertible		2	2	1	6	7						
8	Coupe				3	22	25						
9	Hatchback				24	734	758						
10	Sedan				122	1217	1339						
11	SUV / Crossover				14	2323	2337						
12	Wagon				212	33	245						
13	Grand Total		2	2	376	4335	4711						
14													
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34													

'vin' by 'Car Type', 'Highway Fuel Consumption' and 'City Fuel Consumption'

Car Type

SUV / Crossover

Hatchback

Convertible

0%

20%

40%

60%

80%

100%

vin

Low Highway Fuel - Low City Fuel

Medium Highway Fuel - Low City Fuel

Medium Highway Fuel - Medium City Fuel

Recommended Charts

Convertible

05001000150020002500

+ Insert PivotChart

Is this helpful?

'vin' by 'Car Type', 'Highway Fuel Consumption' and 'City Fuel Consumption'

Count of vin

Wagon

SUV / Crossover

Sedan

Hatchback

Coupe

Convertible

0%

10%

20%

30%

40%

50%

60%

70%

80%

90%

100%

+ Insert PivotChart

Is this helpful?

'vin' by 'Car Type', 'Highway Fuel Consumption' and 'City Fuel Consumption'

Count of vin

2500

2000

1500

1000

500

0

Convertible

Coupe

Hatchback

Sedan

SUV ...

Wagon

+ Insert PivotChart

Is this helpful?

Show all 8 results

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100%

Workbook Statistics

Sheet1Sheet2Q1Q2Q3Q4Q5Q6Q7Q8Q10+

Type here to search

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