

Data Analysis Project

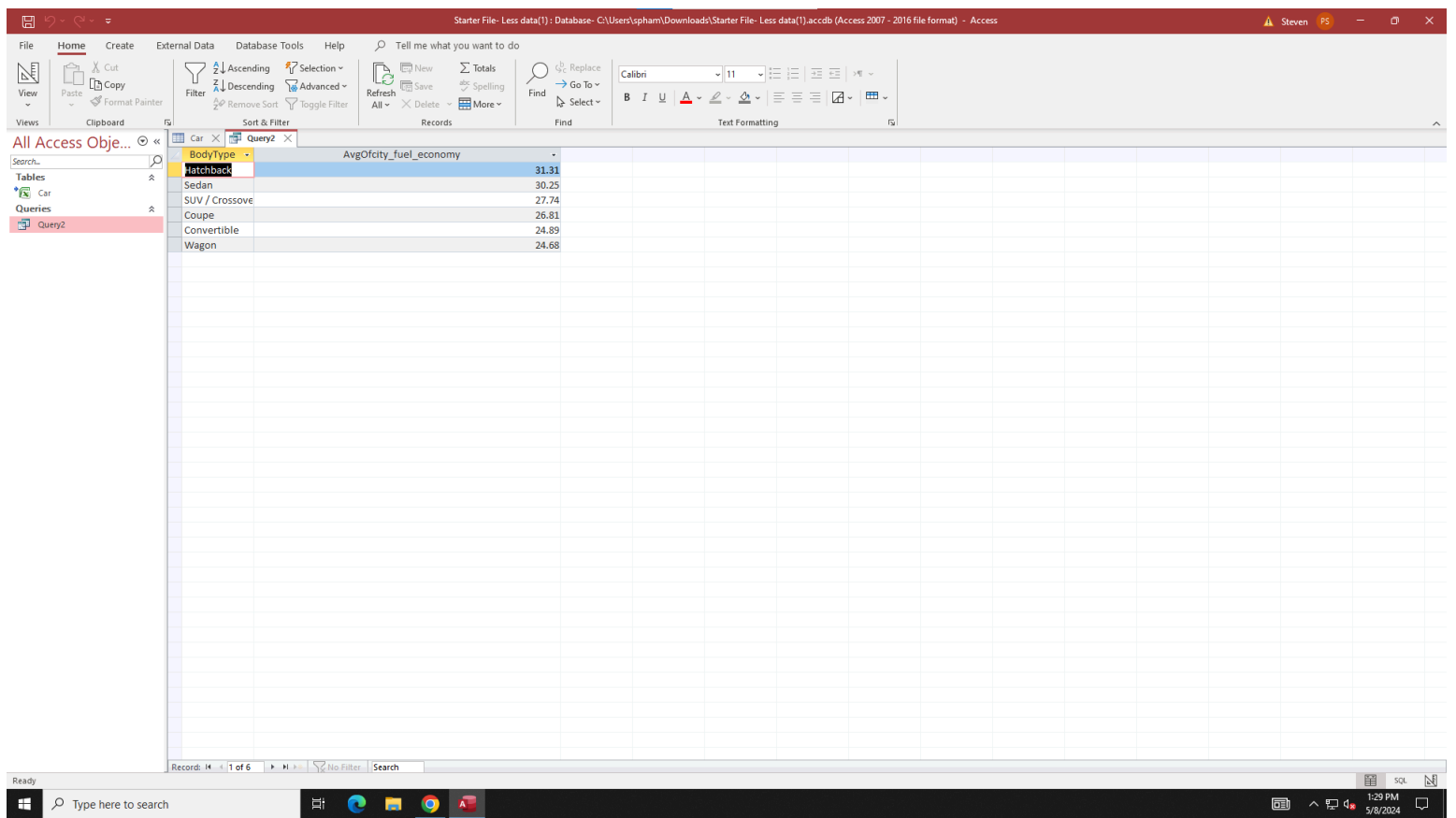
Team members' names

Nhinhi Nguyen and Steven Pham

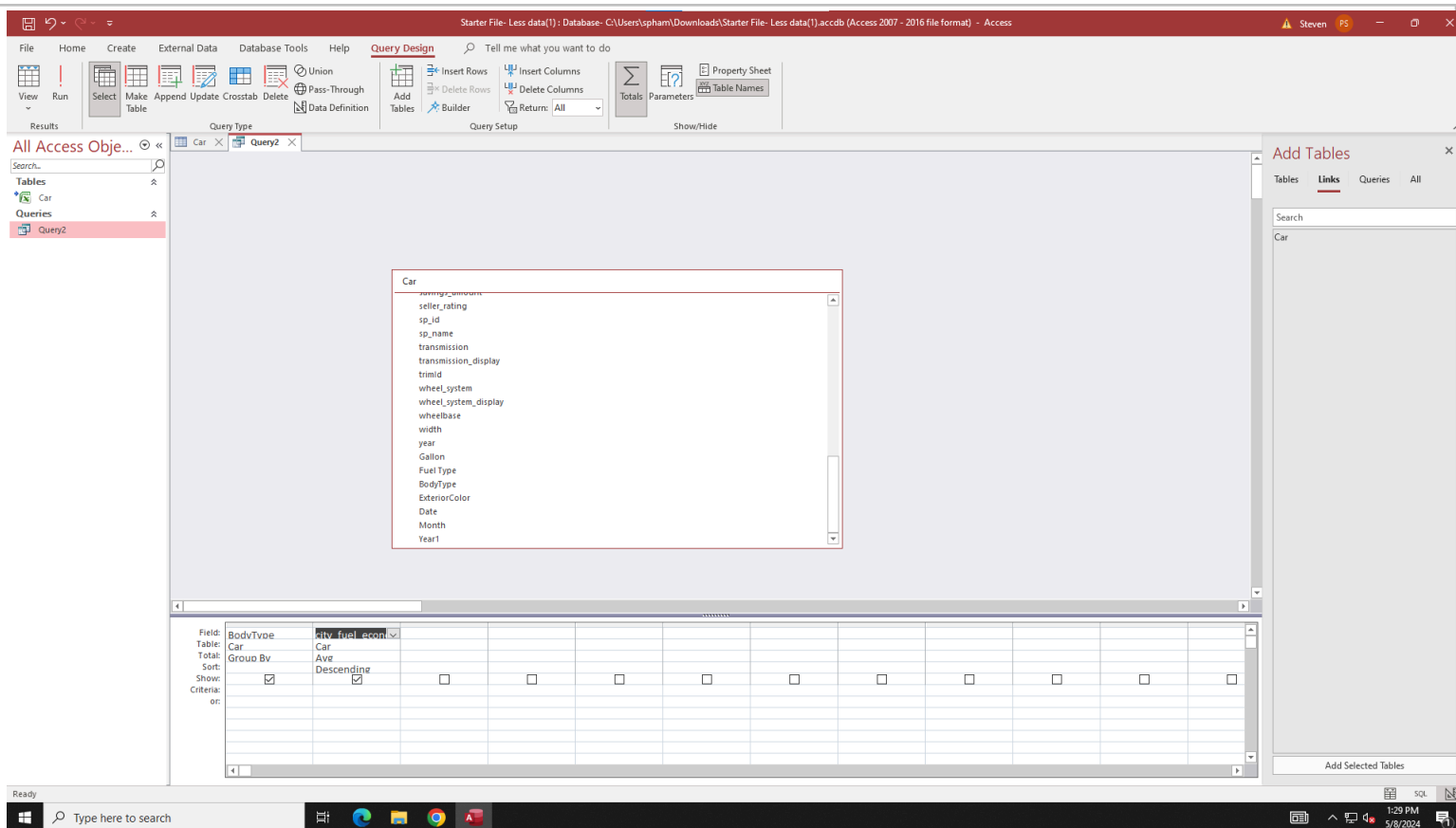
10 questions that you want to answer and the screenshots of Query designs and query outputs

Please type your questions here and put the screenshots of query design and query output under each question

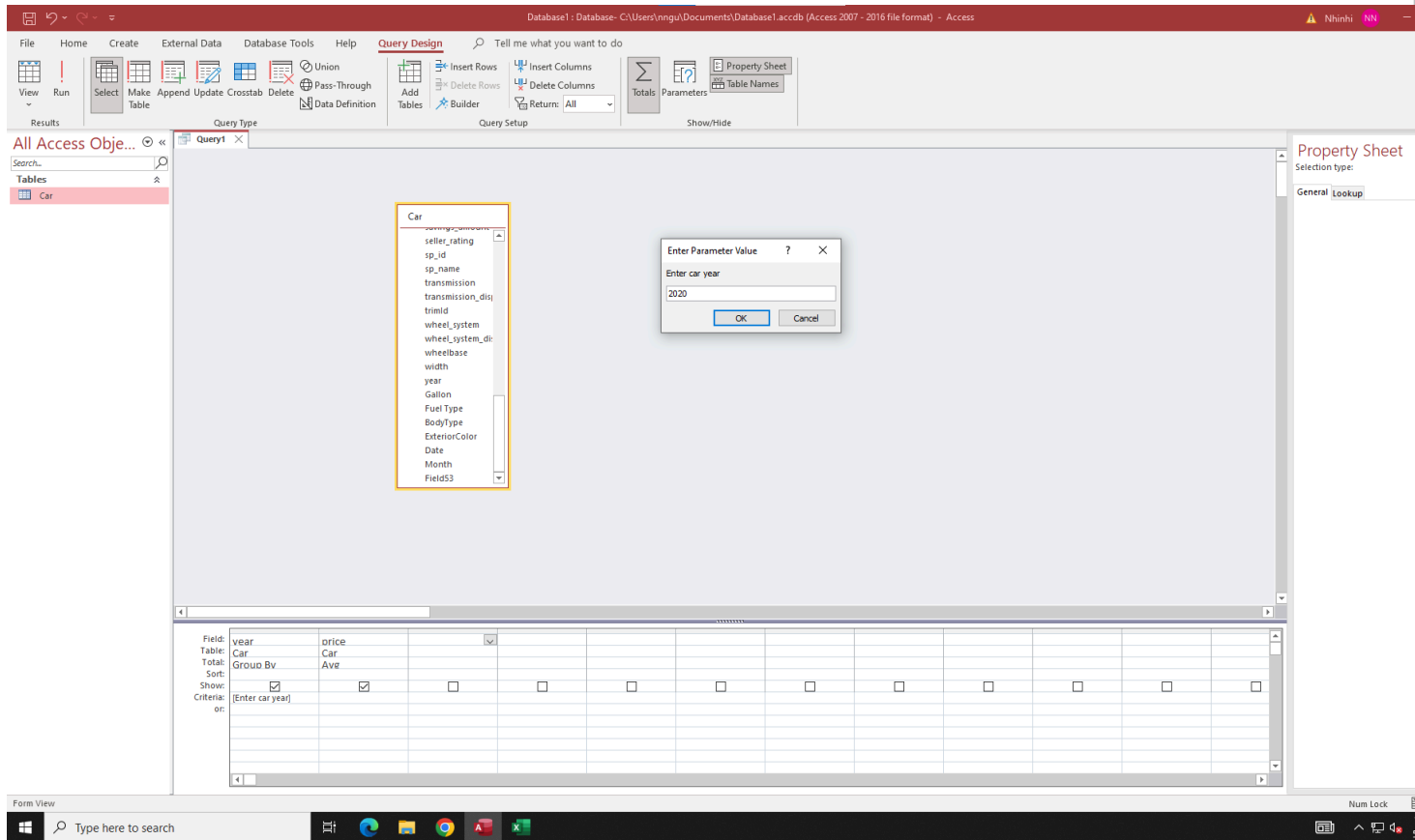
1. Average fuel economy based on body types

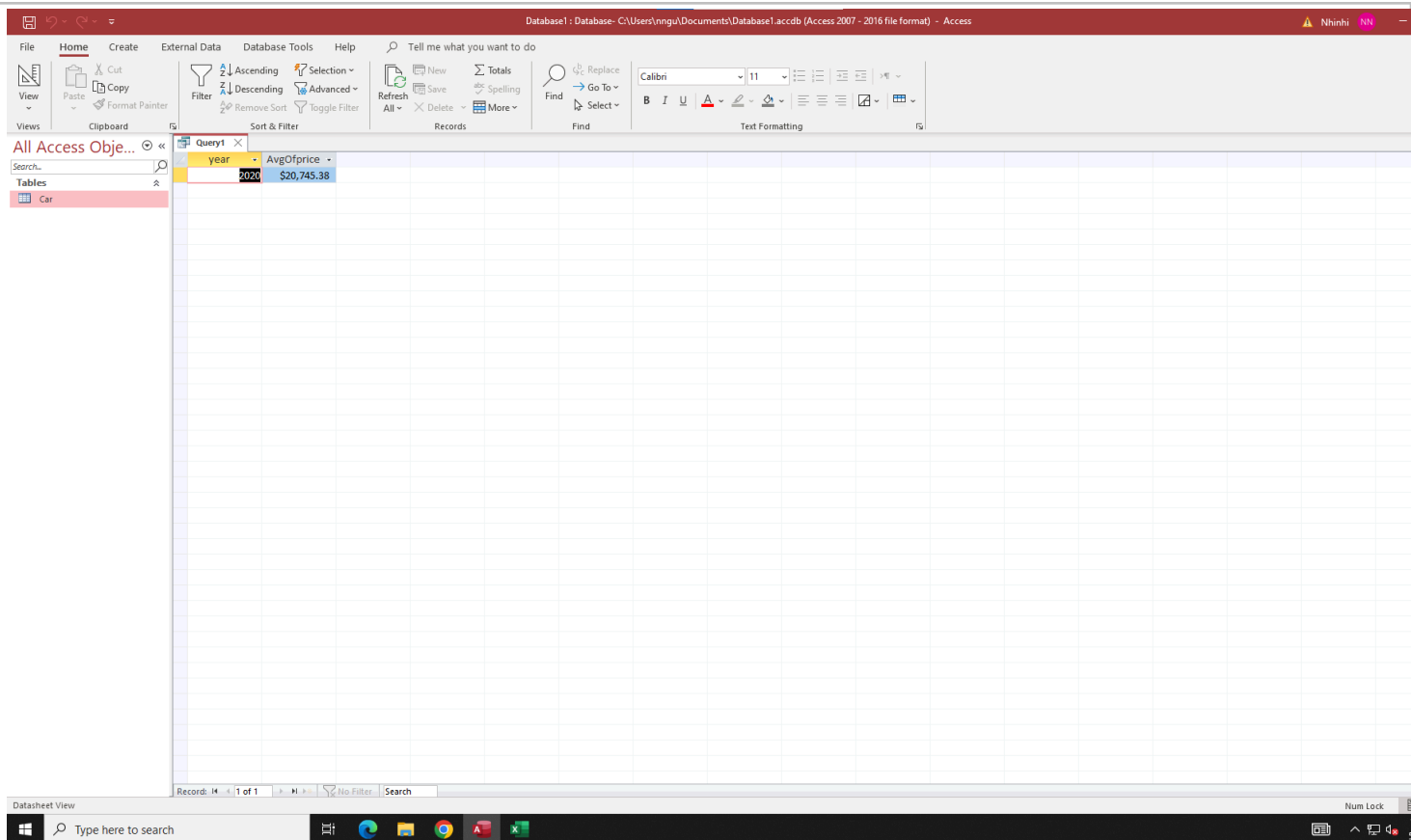


BodyType	AvgOfcity_fuel_economy
Hatchback	31.31
Sedan	30.25
SUV / Crossover	27.74
Coupe	26.81
Convertible	24.89
Wagon	24.68

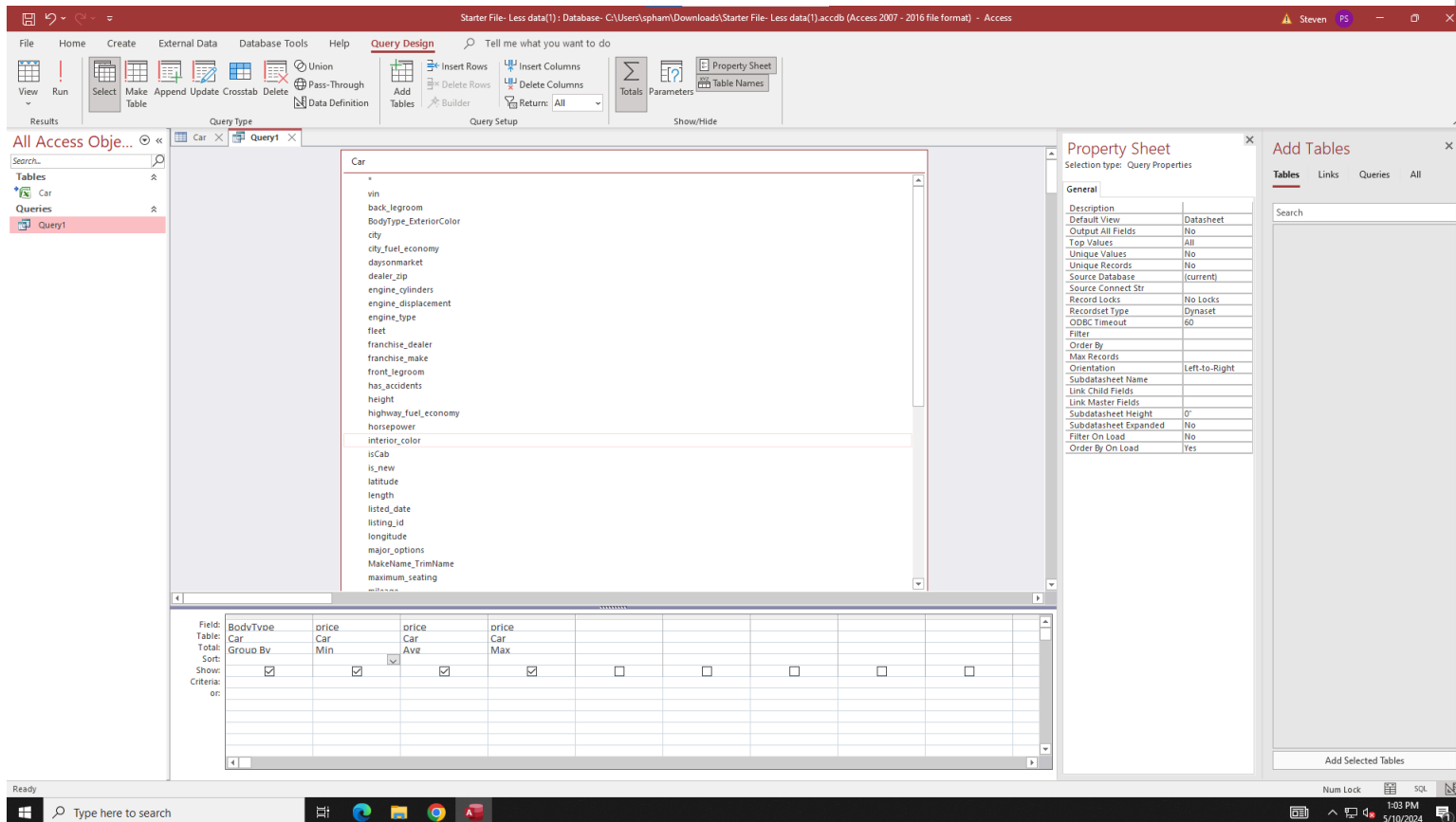


2. Average price of car based on the year the user provides. (filtering)





3. What is the minimum, average, and maximum price based on body type



Starter File- Less data(1) : Database- C:\Users\opham\Downloads\Starter File- Less data(1).accdb (Access 2007 - 2016 file format) - Access

File Home Create External Data Database Tools Help Tell me what you want to do

Filter Sort & Filter

Views Clipboard Sort & Filter

Records

Find

Text Formatting

Calibri 11

B I U

Ready

Record: 1 of 6

Search

Num Lock SQL

1:03 PM 5/10/2024

Type here to search

4. Count of vehicles based on the franchise make for sedans.

mis261 project : Database- C:\Users\nngu2\OneDrive\Documents\mis261 project.accdb (Access 2007 - 2016 file format) - Access

File Home Create External Data Database Tools Help Query Design Tell me what you want to do

Filter Sort & Filter

Views Clipboard Sort & Filter

Records

Find

Text Formatting

Calibri 11

B I U

Ready

Record: 1 of 6

Search

Num Lock SQL

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Type here to search

4. Count of vehicles based on the franchise make for sedans.

4. Count of vehicles based on the franchise make for sedans.

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File Home Create External Data Database Tools Help Query Design Tell me what you want to do

Filter Sort & Filter

Views Clipboard Sort & Filter

Records

Find

Text Formatting

Calibri 11

B I U

Ready

Record: 1 of 6

Search

Num Lock SQL

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Type here to search

4. Count of vehicles based on the franchise make for sedans.

Field:

Table:

Total:

Sort:

Show:

Criteria:

on:

vin

franchise_make

BodyType

Car

Group By

Where

Count

Descending

Criteria:

on:

"Sedan"

Add Selected Tables

Ready

Record: 1 of 6

Search

Num Lock SQL

1:03 PM 5/10/2024

Type here to search

4. Count of vehicles based on the franchise make for sedans.

miszy261 project : Database- C:\Users\nngu2\OneDrive\Documents\miszy261 project.accdb (Access 2007 - 2016 file format) - Access

File Home Create External Data Database Tools Help Tell me what you want to do

Views Filter Sort & Filter Records Find Text Formatting

All Access Obj... Search... Tables Car

Query1

CountOfvin	franchise_m
354	Nissan
252	Kia
247	Hyundai
229	Toyota
157	Chevrolet
83	Ford
80	Jeep
51	Honda
36	Subaru
21	Mitsubishi
19	Buick
19	Volkswagen
16	Mazda
13	BMW
10	Volvo
6	INFINITI
4	Scion
4	Audi
4	Dodge
3	Lexus
2	Lincoln
2	FIAT
2	Acura
1	Mercedes-Ben
1	Cadillac
1	Alfa Romeo

Record: 1 of 26 No Filter Search

Ready 51°F Cloudy Search 12:58 PM 5/10/2024

5. Average price of sedans and hatchbacks for vehicles listed in 2020.

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FileHomeCreateExternal DataDatabase ToolsHelpQuery DesignTell me what you want to do

ViewRunSelectMake TableAppendUpdate CrosstabDeleteUnionPass-ThroughData DefinitionAdd TablesDelete RowsDelete ColumnsInsert RowsInsert ColumnsTotalsParametersTable Names

ResultsQuery TypeQuery SetupShow/Hide

All Access Obj...

Search...TablesCar

Car

latitudelengthlisted_datelisting_idlongitudemajor_optionsMakeName_Trimlmaximum_seatinmileagemodel_nameowner_countpowerpricesavings_amountseller_ratingsp_idsp_namesp_namesttransmissiontransmission_disjtrimidwheel_systemwheel_system_diwheelbasewidthyearGallonFuel Type

Field:	BodyType	price	Expr1: Format([listed_					
Table:	Car	Car	Where					
Total:	Group By	Avg						
Sort:								
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:	"Sedan"		2020					
or:	"Hatchback"							

Property Sheet

Selection type: Field Properties

GeneralLookup

Description	
Format	Currency
Decimal Places	2
Input Mask	
Caption	

Form View

51°FCloudy

Search

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File Home Create External Data Database Tools Help Tell me what you want to do

Views View Paste Copy Filter Sort & Filter Filter Ascending Descending Advanced Refresh Save Spelling Find Replace Go To Select Find

Text Formatting

All Access Obj... Search... Tables Car

BodyType	AvgOfprice
Hatchback	\$16,245.62
Sedan	\$14,249.12

Record: 1 of 2 No Filter Search

Datasheet View

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6. Number of new sedan cars listed in September 2019

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View Run Select Make Table Append Update Crosstab Delete Pass-Through Data Definition Add Tables Delete Rows Delete Columns Totals Parameters Property Sheet Table Names

Results Query Type Query Setup Show/Hide

All Access Objects

Tables

Queries

Query1

Query2

Query2

engine_unplacement
engine_type
first
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
maximum_seating
mileage
model_name
owner_count
power

Property Sheet

Selection type: Query Properties

General

Description	Datasheet
Default View	No
Output All Fields	All
Top Values	No
Unique Values	No
Unique Records	No
Source Database	(current)
Source Connect Str	
Record Locks	No Locks
Recordset Type	Dynaset
ODBC Timeout	60
Filter	
Order By	
Max Records	
Orientation	Left-to-Right
Subdatasheet Name	
Link Child Fields	
Link Master Fields	
Subdatasheet Height	0"
Subdatasheet Expanded	No
Filter On Load	No
Order By On Load	Yes

Add Tables

Tables Links Queries All

Search

Query1

Query2

Add Selected Tables

Field: BodyType is_new Number of Sedans Month: Format([Car][listed_date], "mmmm") Year: Year1

Field	Table	Field	Table	Field	Table	Field	Table	Field	Table
BodyType	Car	is_new	Car	Number of Sedans	Car	Month: Format([Car][listed_date], "mmmm")	Car	Year: Year1	Car
Group By	Car	Group By	Car	Count	Car	Group By	Car	Group By	Car
Sort:									
Show:									
Criteria:									
or:									

Form View

Type here to search

Num Lock SQL

1:30 PM 5/10/2024

Starter File- Less data(1) : Database- C:\Users\sgpham\Downloads\Starter File- Less data(1).accdb (Access 2007 - 2016 file format) - Access

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View Run Select Make Table Append Update Crosstab Delete Pass-Through Data Definition Add Tables Delete Rows Delete Columns Totals Parameters Property Sheet Table Names

Results Query Type Query Setup Show/Hide

All Access Objects

Tables

Queries

Query1

Query2

Query2

BodyType is_new Number of Sedans Month Year

Sedan 51 September 2019

Record: 1 of 1

Datasheet View

Type here to search

Num Lock SQL

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7. Show the average days on the market for the user-imputed car body type for vehicles with miles under 80,000.

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Nguyen, Ninhhi

FileHomeCreateExternal DataDatabase ToolsHelpQuery DesignTell me what you want to do

ViewRunSelectMake TableAppendUpdate CrosstabDeleteUnionPass-ThroughData DefinitionAdd TablesDelete RowsDelete ColumnsReturn: AllTotalsParametersTable Names

ResultsQuery TypeQuery SetupShow/Hide

All Access Obj...

Search...TablesCar

Query1Query2Query3

Car

Enter Parameter Value ? X

Enter body type

Sedan

OKCancel

Field: daysonmarket

Table: Car

Total: Avg

Sort:

Show: ☒

Criteria: or

BodyType

Car

Group By

☒ [Enter body type]

mileage

Car

Where

☐ <80000

Property Sheet

Selection type:

GeneralLookup

Form View

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Search

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File Home Create External Data Database Tools Help Tell me what you want to do

Views Filter Sort & Filter Records Find Text Formatting

Query1 Query2 Query3

AvgOfdayso BodyType

106.550561	Sedan
------------	-------

Record: 1 of 1

Ready

51°F Cloudy

Search

Snipping Tool

Screenshot copied to clipboard and saved. Select here to mark up and share.

1:24 PM 5/10/2024

8. Count of vehicles with at least a 4-seller rating and price under 10,000.

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Nguyen, Ninhhi

FileHomeCreateExternal DataDatabase ToolsHelpQuery DesignTell me what you want to do

ViewRunSelectMake TableAppendUpdate CrosstabDeleteUnionPass-ThroughData DefinitionAdd TablesDelete RowsDelete ColumnsInsert RowsInsert ColumnsTotalsParametersProperty SheetTable Names

ResultsQuery TypeQuery SetupShow/Hide

All Access Obj...<

Search...<

Tables^<

Car

Car

horsepower
interior_color
isCab
is_new
latitude
length
listed_date
listing_id
longitude
major_options
MakeName_TrimName
maximum_seating
mileage
model_name
owner_count
power
price
savings_amount
seller_rating
sp_id
sp_name
transmission
transmission_display
trimid

Field:Count of cars : vin
Table:Car
Total:Count
Sort:
Criteria:or:

Count of cars : vin
Car
Where
=>4

seller_rating
Car
Where
=>4

price
Car
Where
=<=10000

Ready

51°F Cloudy

Search

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misys261 project : Database- C:\Users\nngu2\OneDrive\Documents\misys261 project.accdb (Access 2007 - 2016 file format) - Access

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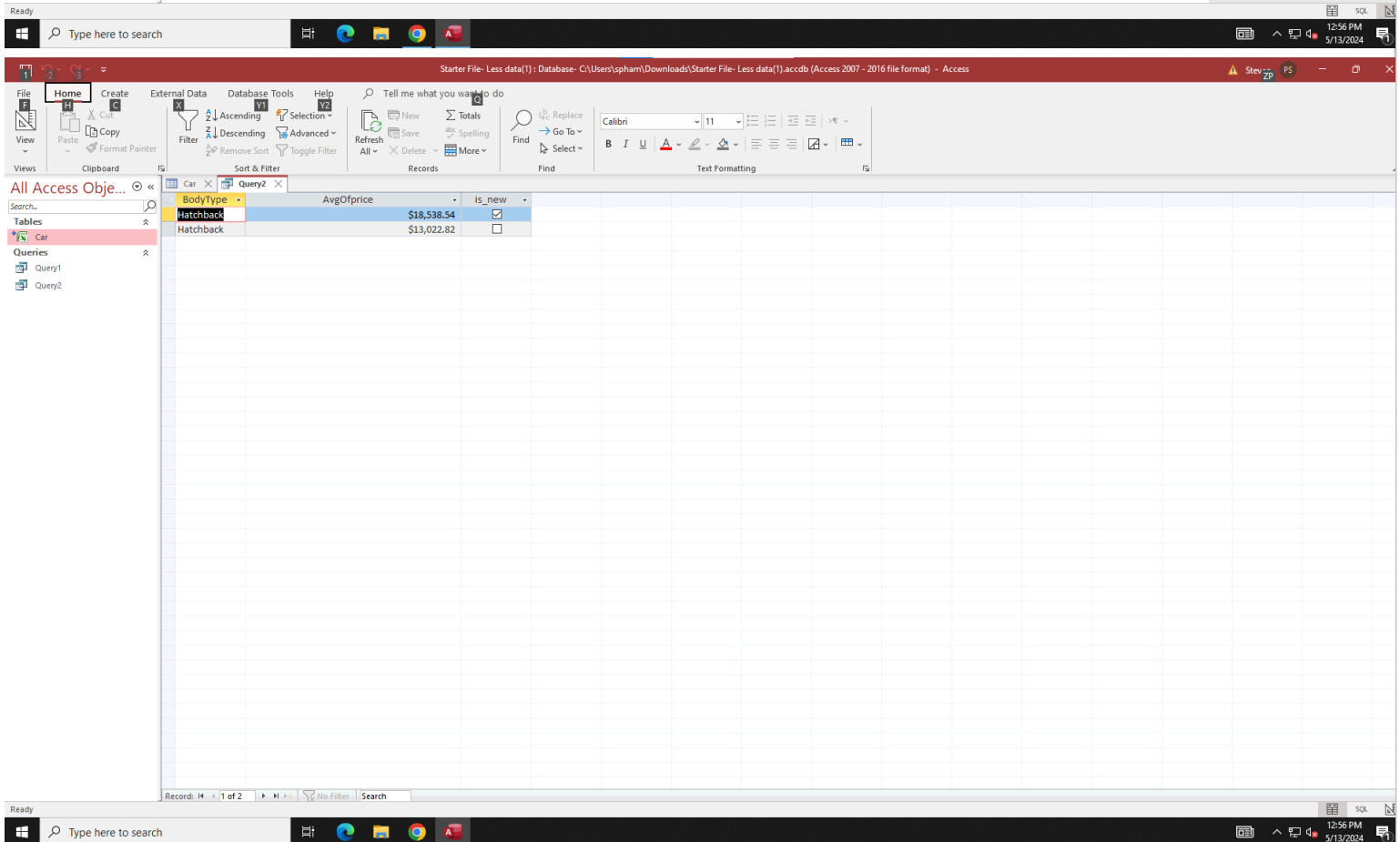
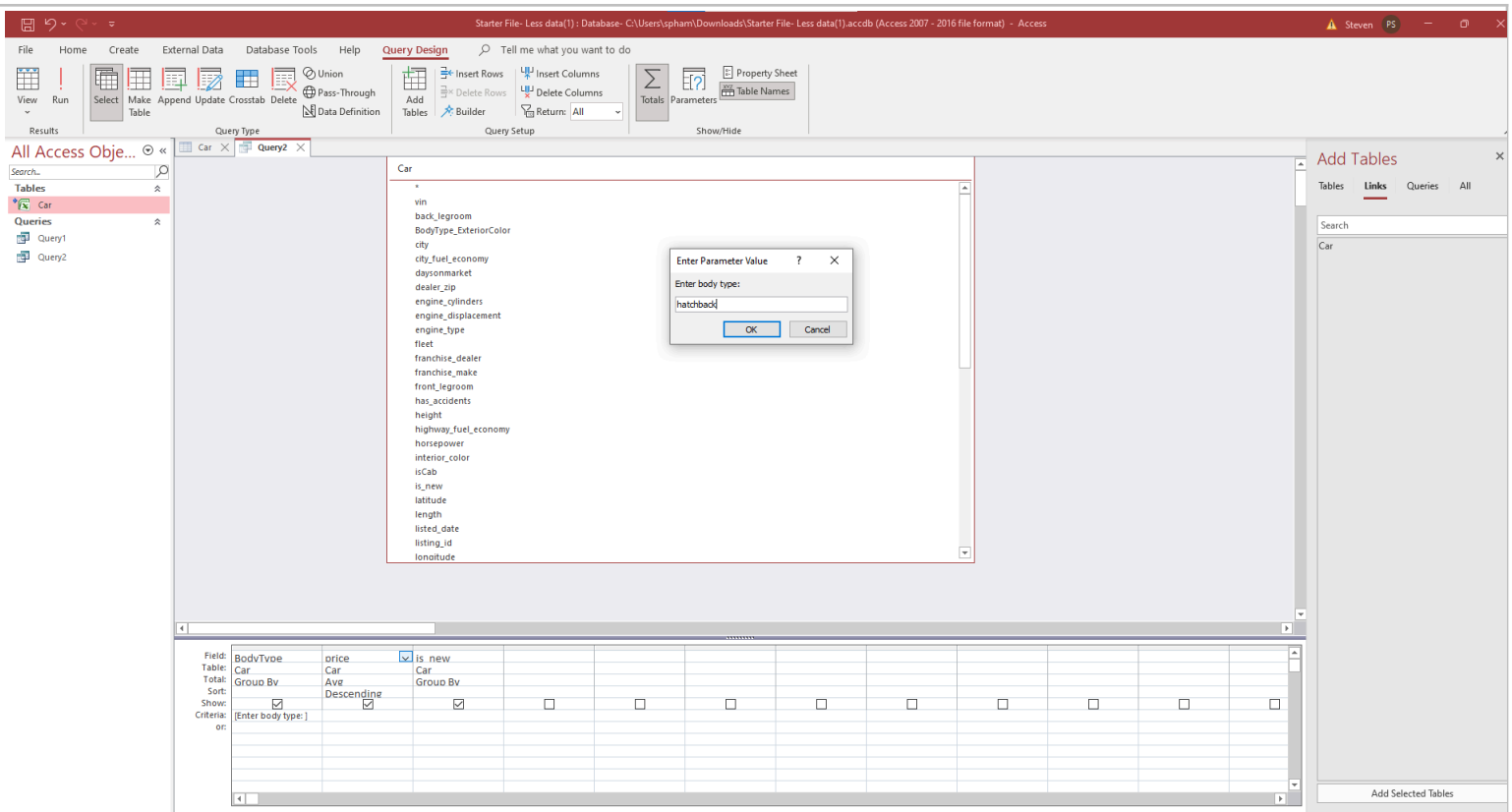
Views View Paste Copy Filter Sort & Filter Records Find Replace Go To Select Find

Count of car 356

Record: 1 of 1

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9. Average price of new vs old body type vehicle user provides



10. Count of body type vehicles in 2020

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File Home Create External Data Database Tools Help Query Design Tell me what you want to do

View Run Select Make Table Append Update Crosstab Delete Pass-Through Data Definition Add Tables Delete Rows Delete Columns Return: All Totals Parameters Property Sheet Table Names

Results Query Type Query Setup Show/Hide

All Access Objects

Search...

Tables

Car

Queries

Query1

Add Tables

Tables Links Queries All

Search

Car

Add Selected Tables

Car

model_name
owner_count
power
price
savings_amount
seller_rating
sp_id
sp_name
transmission
transmission_display
trimid
wheel_system
wheel_system_display
wheelbase
width
year
Gallon
Fuel Type
BodyType
ExteriorColor
Date
Month
Year1

Field: BodyType
Table: Car
Total: Group By
Sort: Count
Show: Descending
Criteria: 2020
or:

Year: Format([Car]![listed_date], "yyyy")

Group By

2020

Ready

Type here to search

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Starter File- Less data(1) : Database- C:\Users\spaham\Downloads\Starter File- Less data(1).accdb (Access 2007 - 2016 file format) - Access

File Home Create External Data Database Tools Help Tell me what you want to do

View Run Select Make Table Append Update Crosstab Delete Pass-Through Data Definition Add Tables Delete Rows Delete Columns Return: All Totals Parameters Property Sheet Table Names

Results Query Type Query Setup Show/Hide

All Access Objects

Search...

Tables

Car

Queries

Query1

Add Tables

Tables Links Queries All

Search

Car

Add Selected Tables

Car

model_name
owner_count
power
price
savings_amount
seller_rating
sp_id
sp_name
transmission
transmission_display
trimid
wheel_system
wheel_system_display
wheelbase
width
year
Gallon
Fuel Type
BodyType
ExteriorColor
Date
Month
Year1

Field: BodyType
Table: Car
Total: Group By
Sort: Count
Show: Descending
Criteria: 2020
or:

Year: Format([Car]![listed_date], "yyyy")

Group By

2020

Ready

Type here to search

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