## Data Analysis & Business Intelligence Made Easy with Excel Power Tools Excel Data Analysis Basics = E-DAB Notes for Video:

## E-DAB-03: Summary Reports with Excel Spreadsheet Formulas

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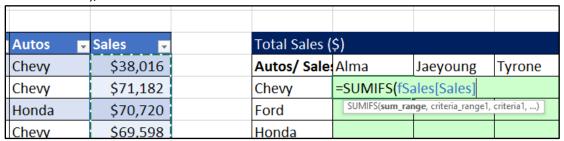
# 1. <u>Excel Spreadsheet Formulas Uses in Data Analysis</u>

A	В	С	D	E	F G	Н	I	J	K	L	M
	Objective	e #1: Exc	el Sprea	adsheet I	Formulas Uses	in Data A	nalysis				
	Excel Spreads	sheet Formu	las are the	only feature	in Excel that update	instantly when	source data	changes.			
	When you wa	ant a Data A	nalysis Exce	l Solution to	respond instantly to	changes in the	e source data,	use formulas			
	Other Data A	nalysis Exce	l Solution su	uch as PivotT	ables and Power Que	ery respond to	changes in th	e source data	only after usi	ng the	refresh commar
										¬ г	
	Date 🔻	Sales Rep	Autos 🔽	Sales 🔽	Total Sales (\$)						Reports built
	2/11/2019	Alma	Chevy	\$38,016	Autos/ Sales Rep	Alma	Jaeyoung	Tyrone	Total		with <b>Excel</b>
	2/11/2019	Tyrone	Chevy	\$71,182	Chevy	107,614	57,034	71,182	235,830		Spreadsheet Formulas
	2/11/2019	Jaeyoung	Honda	\$70,720	Ford	37,432	63,092	98,481	199,005	Н	update instantl
2	2/11/2019	Alma	Chevy	\$69,598	Honda	33,415	70,720	213,010	317,145		when source
3	2/11/2019	-	Honda	\$55,299	Toyota	47,352	95,940	0	143,292		data changes.
1	2/11/2019	Jaeyoung	Toyota	\$63,882	Total	225,813	286,786	382,673	895,272		Ü
5	2/12/2019	Alma	Toyota	\$47,352						י ע	
5	2/12/2019		Ford	\$53,105						— г	
_	2/12/2019		Toyota	\$32,058	Sum of Sales (\$)	Sales Rep 🔻					Reports built
3	2/12/2019	Alma	Honda	\$33,415	Autos -	Alma	Jaeyoung	Tyrone	<b>Grand Total</b>		with Excel
)	2/12/2019	-	Honda	\$71,880	Chevy	107,614	57,034	71,182	235,830		PivotTables require you to
)	2/13/2019		Ford	\$63,092	Ford	37,432		98,481	199,005		refresh the
	2/13/2019		Ford	\$37,432	Honda	33,415	70,720	213,010	317,145		Report when
2	2/13/2019	-	Ford	\$45,376	Toyota	47,352	95,940		143,292		source data
3	2/13/2019		Chevy	\$57,034	Grand Total	225,813	286,786	382,673	895,272		changes.
l l	2/13/2019		Honda	\$45,881						ا ر	
	2/13/2019	Tyrone	Honda	\$39,950							
5				1							
7				<u> </u>							
3	1/14/2019		Ford	31980	\						
	1/14/2019	-	Toyota	45789	As seen in the v						
	1/14/2019		Honda	55299	this new data is						
	1/14/2019		Toyota	63882	Excel Table, the						
2	1/14/2019	-	Toyota	47352	report will resp	ond instantly	•				
3	1/14/2019		Chevy	29870							
1	1/14/2019	Alma	Honda	31852							

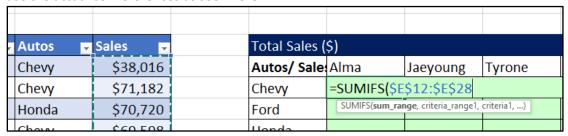
2. <u>Change Default Settings for Table Formula Nomenclature (Structured References).</u>

When we refer to a Field or Column in an Excel Table, we can choose one of two options:

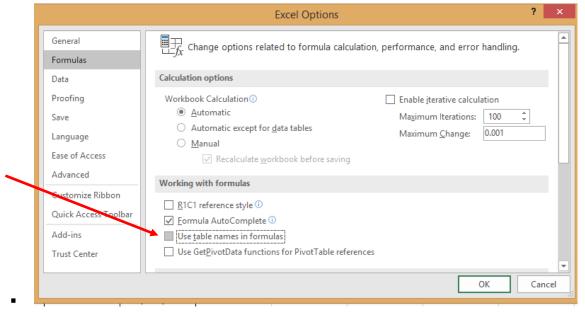
1. Table Name and then field name in square brackets, called Table Formula Nomenclature (or Structured References), as seen here:



2. We can use the actual cell references as seen here:



3. To change the default setting for referring to a File or Column in an Excel Table, Go to the File Ribbon Tab, Then to Options, then on the left click on the Formula tab, then check or uncheck the option "", as seen here:



- 3. Cell References in Formulas.
- 1) Example of Cell Reference: A1
  - i. Column reference = A
  - ii. Row reference = 1
- 2) Copying formulas with Cell References:
  - i. When we copy a formula that contains cell references, we need to consider whether we need: Relative, Absolute, Mixed with the Column Locked or Mixed with the Row Locked.
  - ii. If you will not copy the formula, there is no need to consider what type of cell reference it will be.
- 3) Four Basic Types of Cell References (Relative, Absolute, Mixed Column Locked, Mixed Row Locked):
  - i. Relative Cell References Example: A1
    - No dollar signs
    - Moves relatively throughout the copy action.
    - Relatively means that if the formula is looking at a cell reference that is three cells to the left, when you copy the formula to any other cell, the cell reference will still be looking three cells to the left.
  - ii. Absolute Cell References Example: \$A\$1
    - Dollar signs before both:
      - i. Column reference = A
      - ii. Row reference = 1
    - Absolute means that if the formula is looking at a particular cell reference, when you copy the formula to any other cell, the cell reference will still be looking at that particular cell reference. If the absolute cell reference is \$A\$1, the formula will always look at cell A1. It is as if the formula is locked on the cell A1 throughout copy action.
  - iii. Mixed Cell References with Row Locked Example: A\$1
    - Dollar sign before row reference only.
    - Remains absolute or locked when copying across the rows, vertically (up and down).
    - Moves relatively when copying across the columns, horizontally (side to side).
  - iv. Mixed Cell References with Column Locked Example: \$A1
    - Dollar sign before column reference only.
    - Remains absolute or locked when copying across the columns, horizontally (side to side).
    - Moves relatively when copying across the rows, vertically (up and down).
- 4) Keyboard to Toggle Cell References = F4 Key.
  - i. F4 key = If cursor is touching a cell reference in a formula while in edit mode, F4 toggles between the four basic types of cell references.
- 4. Excel Functions to Make Calculations Based on one Condition, four examples:
- 5. <u>SUMIFS Function with One Condition shown on next page in cell H13</u>
- 6. SUMIFS Function with One Condition & Dynamic Array shown on next page in cell K13
- 7. COUNTIFS Function with One Condition shown on next page in cell H24
- 8. COUNTIFS Function with One Condition & Dynamic Array shown on next page in cell K24

_ A	В	С	D	E	F	G	Н	1	j	K	L
8	Date 🔽	Sales Rep	Autos	Sales			Summary Re	eport - A	dding with	1 Condition	
9	2/11/19	Alma	Chevy	\$43,000							
10	2/11/19	Tyrone	Chevy	\$71,182		Spreadshe	et Formulas:		Office 365	Dynamic Array I	ormulas:
11	2/11/19	Jaeyoung	Honda	\$70,720							
12	2/11/19	Alma	Chevy	\$69,598		Autos	Total Sales		Autos	Total Sales	
13	2/11/19	Tyrone	Honda	\$55,299		Chevy	\$270,684		Chevy	\$270,684.00	
14	2/11/19	Jaeyoung	Toyota	\$63,882		Ford	\$230,985		Ford	\$230,985.00	
15	2/12/19	Alma	Toyota	\$47,352		Honda	\$404,296		Honda	\$404,296.00	
16	2/12/19	Tyrone	Ford	\$53,105		Subaru	\$39,500		Subaru	\$39,500.00	
17	2/12/19	Jaeyoung	Toyota	\$32,058		Toyota	\$300,315		Toyota	\$300,315.00	
18	2/12/19	Alma	Honda	\$33,415							
19	2/12/19	Tyrone	Honda	\$71,880			Summary Rep	port - Co	unting with	1 Condition	
20	2/13/19	Jaeyoung	Ford	\$63,092							
21	2/13/19	Alma	Ford	\$37,432		Spreadshe	et Formulas:		Office 365	Dynamic Array I	ormulas:
22	2/13/19	Tyrone	Ford	\$45,376							
23	2/13/19	Jaeyoung	Chevy	\$57,034		Autos	<b>Count Sales</b>		Autos	<b>Count Sales</b>	
24	2/13/19	Tyrone	Honda	\$45,881		Chevy	5		Chevy	5	
25	2/13/19	Tyrone	Honda	\$39,950		Ford	5		Ford	5	
26	1/14/19	Tyrone	Subaru	\$39,500		Honda	8		Honda	8	
27	1/14/19	Alma	Ford	\$31,980		Subaru	1		Subaru	1	
28	1/14/19	Tyrone	Toyota	\$45,789		Toyota	6		Toyota	6	
29	1/14/19	Jaeyoung	Honda	\$55,299							
30	1/14/19	Alma	Toyota	\$63,882		Formula in	cell H13: =SUMIF	S(\$E\$9:	\$E\$33,\$D\$9	:\$D\$33,G13)	
31	1/14/19	Tyrone	Toyota	\$47,352		Formula in	cell K13: =SUMIF	S(E9:E33	,D9:D33,J1	3#)	
32	1/14/19	Jaeyoung	Chevy	\$29,870		Formula in	cell H24: =COUN	TIFS(\$D\$	9:\$D\$33,G	24)	
33	1/14/19	Alma	Honda	\$31,852		Formula in	cell K24: =COUNT	TIFS(D9:I	D33,J24#)		

#### 9. Excel Functions to Make Calculations Based on an AND Logical Text.

- i. Functions that can perform AND Logical Tests:
  - 1. SUMIFS: Adds numbers with one or more conditions or criteria
  - 2. COUNTIFS: Counts with one or more conditions or criteria
  - 3. AVERAGEIFS: Averages numbers with one or more conditions or criteria
  - 4. MAXIFS: Finds Maximum number with one or more conditions or criteria
  - 5. MINIFS: Finds Minimum number with one or more conditions or criteria
- ii. Each function has arguments that you must enter to make the AND Logical Test Calculation.
- iii. Examples of arguments for SUMIFS and COUNTIFS:

#### SUMIFS(sum\_range, criteria\_range1, criteria1, criteria\_range2, criteria2...)

- The SUMIFS function adds with 1 or more conditions/criteria.
- **sum\_range** argument will contain the range with the numbers.
- **criteria\_range1** argument will contain the range with all the items being considered.
- criteria1 argument contains the specific condition or criteria that tells the function what to consider.
- You can up to 127 pairs of criteria\_rangeN and criteriaN argumnets

#### COUNTIFS(criteria\_range1, criteria1, criteria\_range2, criteria2...)

- The COUNTIFS function counts with 1 or more conditions/criteria.
- **criteria\_range1** argument will contain the range with all the items being considered.
- **criteria1** argument contains the condition or criteria that tells the function what to count.
- You can up to 127 pairs of criteria\_rangeN and criteriaN argumnets
- iv. Examples on Next Page:

- 10. <u>SUMIFS for Summary Report Based on Adding, Old School Cell References and Dynamic Arrays.</u>
- 11. COUNTIFS for Summary Report Based on Counting, Old School Cell References and Dynamic Arrays.
- 12. AVERAGEIFS for Summary Report Based on Averaging, Old School Cell References and Dynamic Arrays.

A	В	С	D	E	F	G	Н	1	J	K	L	M	N	0	Р
4 0	Goals:														
5 1	We want a	Cross Tabul	ated Report	showing Tota	Sales by A	uto and Sales Rep.									
6 2	We want a	Cross Tabul	ated Report	showing Aver	age Sales b	y Auto and Sales Re	p.								
7 3	We want a	Cross Tabul	ated Report	showing the	Count of Tra	ansactions by Auto	and Sales Re	p.							
8 4	We are ent	ering data e	ach day and	we want repo	orting solut	ion to update instar	itly when we	add new sal	les data.						
9															
10	Date -	Sales Rep	Autos	Sales 🔽		Cross Tabulated Re	eport for Tot	al Sales (\$)				Cross Tabulated R	eport for Tot	al Sales (\$)	
11	2/11/19	Alma	Chevy	\$38,016		Autos/ Sales Rep	Alma	Jaeyoung	Tyrone			Autos/ Sales Rep	Alma	Jaeyoung	Tyrone
12	2/11/19	Tyrone	Chevy	\$71,182		Chevy	107,614	57,034	71,182			Chevy	107,614	57,034	71,182
13	2/11/19	Jaeyoung	Honda	\$70,720		Ford	37,432	63,092	98,481			Ford	37,432	63,092	98,481
14	2/11/19	Alma	Chevy	\$69,598		Honda	33,415	70,720	213,010			Honda	33,415	70,720	213,010
15	2/11/19	Tyrone	Honda	\$55,299		Toyota	47,352	95,940	0			Toyota	47,352	95,940	0
16	2/11/19	Jaeyoung	Toyota	\$63,882		42	11					40			
7	2/12/19	Alma	Toyota	\$47,352											
8	2/12/19	Tyrone	Ford	\$53,105		Cross Tabulated Re	eport for Ave	erage Sales (S	5)			Cross Tabulated R	eport for Ave	erage Sales (	\$)
19	2/12/19	Jaeyoung	Toyota	\$32,058		Autos/ Sales Rep	Alma	Jaeyoung	Tyrone			Autos/ Sales Rep	Alma	Jaeyoung	Tyrone
20	2/12/19	Alma	Honda	\$33,415		Chevy	53,807	57,034	71,182			Chevy	53,807	57,034	71,182
21	2/12/19	Tyrone	Honda	\$71,880		Ford	37,432	63,092	49,241			Ford	37,432	63,092	49,241
22	2/13/19	Jaeyoung	Ford	\$63,092		Honda	33,415	70,720	53,253			Honda	33,415	70,720	53,253
23	2/13/19	Alma	Ford	\$37,432		Toyota	47,352	47,970	0			Toyota	47,352	47,970	0
24	2/13/19	Tyrone	Ford	\$45,376		10.		1				9.5			
25	2/13/19	Jaeyoung	Chevy	\$57,034		Cross Tabulated Re	eport for Cou	unt of Transa	ctions			Cross Tabulated R	eport for Cou	unt of Transa	ctions
26	2/13/19	Tyrone	Honda	\$45,881		Autos/ Sales Rep	Alma	Jaeyoung	Tyrone			Autos/ Sales Rep	Alma	Jaeyoung	Tyrone
27	2/13/19	Tyrone	Honda	\$39,950		Chevy	2	1	1			Chevy	2	1	1
28						Ford	1	1	2			Ford	1	1	2
29						Honda	1	1	4			Honda	1	1	4
0						Toyota	1	2	0			Toyota	1	2	0
31						2 928						1 19202			
32	Old School	Cell Refere	nce Formula	as:					New School	Dynamic Arr	ay Form	ulas:			
33	Formula in	cell H12: =9	SUMIFS(\$E\$	11:\$E\$27,\$C\$	11:\$C\$27,H	H\$11,\$D\$11:\$D\$27,	\$G12)		Formula in ce	ell H13: =SU	MIFS(\$E	\$11:\$E\$27,\$C\$11:\$	C\$27,H\$11,	D\$11:\$D\$2	7,\$G13)
34	Formula in	cell H20: =I	FERROR(AVI	RAGEIFS(\$E\$:	11:\$E\$27,\$	D\$11:\$D\$27,\$G20,	\$C\$11:\$C\$27	7,H\$19),0)	Formula in ce	ell N20: =IFE	RROR(A	/ERAGEIFS(E11:E27,	D11:D27,M2	0#,C11:C27	N19#),0)
35						:\$C\$27,H\$26)						D11:D27,M27#,C11			

## 13. Screen Shots of Old School Formulas with Totals on Worksheet Named "Old School with Totals".

1	Α	В	C	D	E	F	G		Н	1	J	K	L
1													
2		Objectiv	ve #5: Sl	JMIFS fo	r Summa	ry Repo	ort Based on A	Add	ling				
3													
4	Go	als:											
5	1	We want a	Cross Tabula	ated Report s	howing Total	Sales by Au	to and Sales Rep.						
6	2	We want a	Cross Tabula	ated Report s	howing <mark>Ave</mark> ra	ige Sales by	Auto and Sales Rep.						
7	3	We want a	Cross Tabula	ated Report s	howing the C	ount of Tran	nsactions by Auto an	nd Sa	les Rep.				
8	4	We are ente	ering data ea	ach day and v	we want repo	ting solutio	on to update instantly	y wh	en we ad	d new sales	data.		
9													
10			Formula in	Cell H15: =SU	JMIFS(\$E\$14:	\$E\$30,\$D\$	14:\$D\$30,\$G15,\$C\$	\$14:	\$C\$30,H	314) copied t	through rang	e H15:J18	
11			The SUM Fu	unction is use	ed to calculate	d the Totals	(Alt + = is keyboard	for S	SUM Fun	ction).			
12													
13		Date 🔻	Sales Rep	Autos	Sales 🔻		Cross Tabulated Re	eport	t for Tota	Sales (\$)			
14		2/11/19	Alma	Chevy	\$38,016	k	Autos/ Sales Rep	Alm	na	Jaeyoung	Tyrone	Total	
15		2/11/19	Tyrone	Chevy	\$71,182		Chevy	1	107,614	57,034	71,182	235,830	
16		2/11/19	Jaeyoung	Honda	\$70,720		Ford		37,432	63,092	98,481	199,005	
17		2/11/19	Alma	Chevy	\$69,598	x \	Honda		33,415	70,720	213,010	317,145	
18		2/11/19	Tyrone	Honda	\$55,299	11	Toyota		47,352	95,940		143,292	
19			Jaeyoung	Toyota	\$63,882	//	Total		225,813	286,786	382,673	895,272	
20		2/12/19		Toyota	\$47,352			_		$\neg \leftarrow$			
21		2/12/19	Tyrone	Ford	\$53,105	SUMIF	S in cell H15 adds th	he	07200				
22		2/12/19	Jaeyoung	Toyota	\$32,058	100 400 500 500 500 500 500 500 500 500 5	or the Sales Rep		Ε	ach cell in th	ne interior of	this Cross	
23		2/12/19	Alma	Honda	\$33,415	36.66.65.0000000000000000000000000000000	" and the Auto		Т	abulated Re	port (Cross-T	ab) runs ar	n AND
24		2/12/19	Tyrone	Honda	\$71,880	20200000000	y". In order for a		1 0000		alculation to	add Sales I	pased
25		2/13/19	Jaeyoung	Ford	\$63,092		er to be included in		0	n Sales Rep	and Auto.		
26		2/13/19	Alma	Ford	\$37,432	V200400-00000000000000000000000000000000	lculation, the record show the Sales Rep	1					
27		2/13/19	Tyrone	Ford	\$45,376		" and the Auto						
28		2/13/19	Jaeyoung	Chevy	\$57,034	"Chev							
29		2/13/19	Tyrone	Honda	\$45,881		•						
30		2/13/19	Tyrone	Honda	\$39,950				1				

A	М	N	0	Р	Q	R	S	Т	U	V	W	
8	Objective #6	: COUNT	IFS for S	ummary	Report	Based	on Cou	inting				
9	•			•	•							
10	Formula in Cell N15	: =COUNTIFS	s(\$D\$14:\$D\$	30,\$M15,\$C	\$14:\$C\$30	),N\$14) co	pied throu	gh range N	15:P18			
11	The SUM Function	s used to cal	culated the T	otals (Alt +=	is keyboar	d for SUM	Function).					
12												
13	Cross Tabulated Re	port for Cou	nting Transac	ctions								
14	Autos/ Sales Rep	Alma	Jaeyoung	Tyrone	Total							
15	Chevy	2	1	1	4							
16	Ford	1	1	2	4							
17	Honda	1	1	4	6							
18	Toyota	1	2	0	3							
19	Total	5	5	7	17							
20												
21	2											
22	Objective #7	: AVERA	<b>GEIFS</b> for	r Summa	ry Repo	ort Bas	ed on A	veragir	ng			
23										. P.		
24	Using the AVERAGE	IFS function	we calculate	d 4 different	averaging	formulas t	o create thi	is report				
25												
26	Cross Tabulated Re	port for Aver	aging Transa	actional Sales	(\$)							
27	Autos/ Sales Rep	Alma	Jaeyoung	Tyrone	Total							
28	Chevy	53,807	57,034	71,182	58,958							
29	Ford	37,432	63,092	49,241	49,751							
30	Honda	33,415	70,720	53,253	52,858							
31	Toyota	47,352	47,970		47,764							
32	Total	45,163	57,357	54,668	52,663							
33												
34	Formula in Cell N28	3: = <mark>IF(N1</mark> 5=0,	"",AVERAGE	IFS(\$E\$14:\$I	E\$30,\$D\$1	4:\$D\$30,\$	M28,\$C\$1	4:\$C\$30,N	\$27)) copie	d through	range N28:	P31
35	Formula in Cell N32	:=AVERAGE	FS(\$E\$14:\$E	\$30,\$C\$14:	\$C\$30,N27	) copied th	rough rang	ge N32:P32	2			
36	Formula in Cell Q28	3: =AVERAGE	IFS(\$E\$14:\$I	E\$30,\$D\$14:	\$D\$30,M2	8) copied t	through rai	nge Q28:Q3	31			
37	Formula in Cell Q32	: =AVERAGE	(E14:E30)									

# 14. Office 365 Dynamic Array Notes from Worksheet named "O365 Dynamic Arrays".

A	ВС	D	E .	F G	Н	1	J.	K	L	М	N	0
	Objective #8: Off	ice 365 I	Dynamic Arra	y Functions for S	ummary Re	port						
						•						
T	In Office 365 Insider Edi	tion, and the	en at a later releas	e date in 2019, Microsoft	has introduced	a new Excel Ca	alculation Engir	e and a new	set or spe	cial Array F	unctions.	
				JE. TRANSPOSE is an old A								rsa.
				eration (putting more th			the state of the s			The second secon		
	the new Excel Calculation	n Engine wi	II automatically sp	oill the results in the corr	ect number of c	ells.		17/4 51	NESS!			
	To refer to a Spilled Arra	ay, use the to	op cell in the Spille	ed Array with a pound sig	gn #, like: H20# t	o refer to the	Spilled Array th	at lives in ce	II H20.			
	For a Spilled Array, the f	ormula lives	s in the first cell ar	nd the remaining cells are	e gray to indicat	e that they spi	lled though the	cells but no	t actually i	n the cell.		
	The Dynamic Array Fund	tions will sp	ill automatically a	nd if the source data cha	nges, the functi	on will automa	itically update.					
	1900											
	Goals:											
	1 We want	a Cross Tabu	lated Report show	ing Total Sales by Auto a	ind Sales Rep.							
	2 We are us	ing Office 36	55 Insider Addition	n, or later in 2019 Microso	oft says that the	se new Dynam	ic Array Formu	as will be av	ailable.			
	3 We are er	itering data	each day and we w	vant reporting solution to	o update instan	tly when we ac	ld new sales da	ta.				
	Date Sales Re	-	Sales 💌	Cross Tabulated Sa	the facilities will be seen to be							
	2/11/19 Alma	Chevy	\$38,016	Sales Rep / Autos		Jaeyoung	Tyrone					
	2/11/19 Tyrone	Chevy	\$71,182	Chevy	\$107,614.00	\$57,034.00	\$71,182.00					
	2/11/19 Jaeyoung		\$70,720	Ford	\$37,432.00		\$98,481.00					
	2/11/19 Alma	Chevy	\$69,598	Honda	\$33,415.00							
	2/11/19 Tyrone	Honda	\$55,299	Toyota	\$47,352.00	\$95,940.00	\$0.00					
	2/11/19 Jaeyoung	71.3577.833.5270.	\$63,882									
	2/12/19 Alma	Toyota	\$47,352									
	2/12/19 Tyrone	Ford	\$53,105	Formula in Cell G2			Secretary and a secretary					
	2/12/19 Jaeyoung		\$32,058	Formula in Cell H2		1 1	77					
	2/12/19 Alma	Honda	\$33,415	Formula in Cell H2	21: =SUMIFS(E20	:E36,C20:C36,H	20#,D20:D36,G	21#)				
	2/12/19 Tyrone	Honda	\$71,880									
	2/13/19 Jaeyoung	700000	\$63,092									
	2/13/19 Alma	Ford	\$37,432									
	2/13/19 Tyrone	Ford	\$45,376						-			
8	2/13/19 Jaeyoung		\$57,034									
5	2/13/19 Tyrone	Honda	\$45,881									
5	2/13/19 Tyrone	Honda	\$39,950									