

DATA SCIENCE THROUGH EXCEL

FINAL ASSESSMENT

1.WHAT ARE CHARTS AND DIFFERENT TYPES OF CHARTS?

A CHART IS A POWERFUL TOOL THAT ALLOWS YOU TO VISUALLY DISPLAY DATA IN A VARIETY OF DIFFERENT CHART FORMATS SUCH AS BAR,COLUMN,PIE,LINE,AREA,DOUGHNUT,SCATTER,SURFACE OR RADAR CHARTS.

2.WHAT ARE PIVOT TABLE IN EXCEL AND THEIR IMPLEMENTATIONS?

A PIVOT TABLE IS USED TO SUMMARISE,SORT,REORGANISE,GROUP, COUNT,TOTAL OR AVERAGE DATA STORED IN A TABLE.IT ALLOWS US TO TRRANSFORM COLUMNS INTO ROWS AND ROWS INTO COLUMNS.IT ALLOWS GROUPING BY ANY FIELD (COLUMN) AND USING ADVANCED CALCULATIONS ON THEM.

3.WHAT IS CONDITIONAL FORMATTING ? DISTINGUISH 5 TYPES OF CONDITIONAL FORMATTING.

A CONDITIONAL FORMATTING CHANGES THE APPEARANCE OF CELLS ON THE BASIS OF CONDITIONS THAT YOU SPECIFY.IF THE CONDITIONS ARE TRUE, THE CELL RANGE IS FORMATTED;IF THE CONDITIONS ARE FALSE,THE CELL RANGE IS NOT FORMATTED.

THE FIVETYPES OF CONDITIONAL FORMATTING ARE

.HIGHLIGHTED THE CELL RULES

.TOP|BOTTOM RULES

.DATA BARS

.COLOR SCALES

.ICON SCALES

4.HOW TO CLEAR FORMATTING IN EXCEL WITHOUT ACTUALLY REMOVING THE CELL CONTENT?

TO REMOVE FORMATTING IN EXCEL ,DO THE FOLLOWING

1.SELECT THE CELL OR RANGE OF CELLS FROM WHICH YOU WANT TO CLEAR FORMATTING.

2.ON THE HOME TAB,IN THE EDITING GROUP,CLICK THE ARROW NEXT TO THE CLEAR BUTTON

3.SELECT THE CLEAR FORMATS OPTION

IF YOU CLICK A CELL AND THEN PRESS DELETE OR BACKSPACE, YOU CLEAR THE CELL CONTENTS WITHOUT REMOVING ANY CELL FORMATS OR CELL COMMENTS.

7.DEFINE STATISTICS?

STATISTICS IS THE STUDY AND MANIPULATION OF DATA,INCLUDING WAYS TO GATHER ,REVIEW,ANALYZE AND DRAW CONCLUSIONS FROM DATA.THE TWO MAJOR AREAS OF STATISTICS ARE DESCRIPTIVE AND INFERENTIAL STATISTICS.

8.EXPLAIN ABOUT ANY TWO DATA ANALYSIS TOOLPAK?

.R PROGRAMMING:R IS THE LEADING ANALYTICS TOOL IN THE INDUSTRY AND WIDELY USED FOR STATISTICS AND DATA MODELLING.

.SAS:SAS IS A COMMAND DRIVEN STATISTICAL SOFTWARE SUITE

WIDELY USED FOR STATISTICAL DATA ANALYSIS AND VISUALIZATION.SAS FULL FORM IS STATISTICAL ANALYSIS SOFTWARE.

9.EXPALIN ABOUT HISTOGRAM?

A HISTOGRAM IS A GRAPHICAL REPRESENTATION THAT ORGANISES A GROUP OF DATA POINTS INTO USER SPECIFIED RANGES.

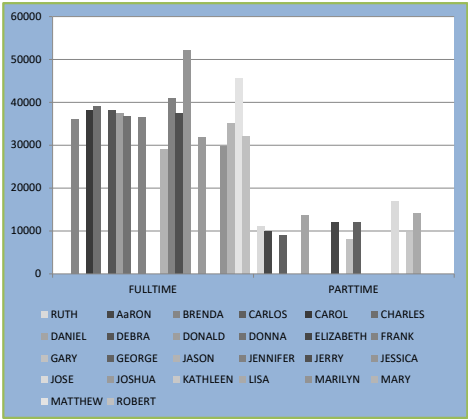
SIMILAR IN APPEARANCE TO A BAR GRAPH,THE HISTOGRAM CONDENSES A DATA SERIES INTO AN EASILY INTERPRETED VISUAL BY TAKING MAN DATA POINTS AND GROUPING THEM INTO LOGICAL RANGES OR BINS.

LAST NAM	FIRSTNAM	STATUS	SALARY
WILLIAMS	MARY	FULLTIME	\$35,000
BROWN	ROBERT	FULLTIME	\$32,000
WILSON	ELIZABETH	PARTTIME	\$12,000
MOORE	JENNIFER	FULLTIME	\$41,000
BROWN	CHARLES	FULLTIME	\$39,000
PRICE	LISA	PARTTIME	\$14,000
WOOD	DANIEL	PARTTIME	\$13,750
COLEMAN	DONALD	FULLTIME	\$37,500
PERRY	GEORGE	PARTTIME	\$12,050
STEELE	DONNA	FULLTIME	\$36,750
SCHULTZ	CAROL	FULLTIME	\$38,050
MUNOZ	RUTH	PARTTIME	\$11,000
CHANDLEE	JASON	FULLTIME	\$29,000
SMALL	MATTHEW	FULLTIME	\$45,500
HENSLEY	JESSICA	FULLTIME	\$52,000
BROWN	GARY	PARTTIME	\$8,000
GRIMES	JOSE	PARTTIME	\$17,000
BAXTER	BRENDA	FULLTIME	\$36,000
MORIN	FRANK	FULLTIME	\$36,500
TILLMAN	KATHLEEN	PARTTIME	\$9,750
HUBER	JOSHUA	FULLTIME	\$31,750
BOYLE	DEBRA	FULLTIME	\$38,050
BUCKNER	JERRY	FULLTIME	\$37,500
KNOWLES	AaRON	PARTTIME	\$10,050
VELAZQUE	CARLOS	PARTTIME	\$9,075
VANG	MARILYN	FULLTIME	\$29,750

5.CREATE PIVOT TABLE AND CHART

LAST NAME (All)

Sum of SALARY		Column Labels																											
Row Labels	AaRON	BRENDA	CARLOS	CAROL	CHARLES	DANIEL	DEBRA	DONALD	DONNA	ELIZABETH	FRANK	GARY	GEORGE	JASON	JENNIFER	JERRY	JESSICA	JOSE	JOSHUA	KATHLEEN	LISA	MARILYN	MARY	MATTHEW	ROBERT	RUTH	Grand Total		
FULLTIME		36000		38050	39000		38050	37500	36750		36500		12000	29000	41000	37500	52000		31750			29750	35000	45500	32000		595350		
PARTTIME	10050		9075			13750					8000		12050					17000		9750	14000				11000		116675		
Grand Total	10050	36000	9075	38050	39000	13750	38050	37500	36750	12000	36500	8000	12050	29000	41000	37500	52000	17000	31750	9750	14000	29750	35000	45500	32000	11000	712025		



Region	Product	Outlet	Sales Person	Sales	Date
West	Item2	Online	Sara Hudson	516	Jan-17
West	Item2	Online	Mark Harris	45	Jan-17
West	Item2	Online	Kevin Frick	354	Jan-17
West	Item2	Online	Anna Smith	345	Jan-17
West	Item2	Store	Sara Hudson	848	Jan-17
West	Item2	Store	Mark Harris	213	Jan-17
West	Item2	Store	Kevin Frick	454	Jan-17
West	Item2	Store	Anna Smith	848	Jan-17
West	Item2	Phone	Sara Hudson	353	Jan-17
West	Item2	Phone	Mark Harris	424	Jan-17
West	Item2	Phone	Kevin Frick	212	Jan-17
West	Item2	Phone	Anna Smith	159	Jan-17
West	Item3	Online	Sara Hudson	342	Jan-17
West	Item3	Online	Mark Harris	412	Jan-17
West	Item3	Online	Kevin Frick	243	Jan-17
West	Item3	Online	Anna Smith	879	Jan-17
West	Item3	Store	Sara Hudson	81	Jan-17
West	Item3	Store	Mark Harris	183	Jan-17
West	Item3	Store	Kevin Frick	418	Jan-17
West	Item3	Store	Anna Smith	231	Jan-17
West	Item3	Phone	Sara Hudson	64	Jan-17
West	Item3	Phone	Mark Harris	301	Jan-17
West	Item3	Phone	Kevin Frick	79	Jan-17
West	Item3	Phone	Anna Smith	314	Jan-17
West	Item1	Online	Sara Hudson	73	Jan-17
West	Item1	Online	Mark Harris	399	Jan-17
West	Item1	Online	Kevin Frick	430	Jan-17
West	Item1	Online	Anna Smith	433	Jan-17
West	Item1	Store	Sara Hudson	286	Jan-17
West	Item1	Store	Mark Harris	268	Jan-17
West	Item1	Store	Kevin Frick	233	Jan-17
West	Item1	Store	Anna Smith	153	Jan-17
West	Item1	Phone	Sara Hudson	360	Jan-17
West	Item1	Phone	Mark Harris	152	Jan-17
West	Item1	Phone	Kevin Frick	403	Jan-17
West	Item1	Phone	Anna Smith	423	Jan-17
West	Item2	Online	Sara Hudson	63	Feb-17
West	Item2	Online	Mark Harris	205	Feb-17
West	Item2	Online	Kevin Frick	165	Feb-17
West	Item2	Online	Anna Smith	411	Feb-17
West	Item2	Store	Sara Hudson	305	Feb-17
West	Item2	Store	Mark Harris	58	Feb-17
West	Item2	Store	Kevin Frick	444	Feb-17
West	Item2	Store	Anna Smith	148	Feb-17
West	Item2	Phone	Sara Hudson	303	Feb-17
West	Item2	Phone	Mark Harris	377	Feb-17
West	Item2	Phone	Kevin Frick	444	Feb-17
West	Item2	Phone	Anna Smith	160	Feb-17
West	Item3	Online	Sara Hudson	161	Feb-17
West	Item3	Online	Mark Harris	304	Feb-17
West	Item3	Online	Kevin Frick	339	Feb-17
West	Item3	Online	Anna Smith	167	Feb-17
West	Item3	Store	Sara Hudson	93	Feb-17
West	Item3	Store	Mark Harris	216	Feb-17
West	Item3	Store	Kevin Frick	338	Feb-17
West	Item3	Store	Anna Smith	272	Feb-17
West	Item3	Phone	Sara Hudson	211	Feb-17
West	Item3	Phone	Mark Harris	231	Feb-17
West	Item3	Phone	Kevin Frick	398	Feb-17
West	Item3	Phone	Anna Smith	58	Feb-17
West	Item1	Online	Sara Hudson	377	Feb-17
West	Item1	Online	Mark Harris	184	Feb-17

Sales Person	East	North	South	West
Anna Smith	51466	53095	52388	52433
Kevin Frick	53297	51600	53488	52164
Mark Harris	51522	51905	51326	52467
Sara Hudsor	51690	49879	51614	51040

