	Date:/	ASB -18
Q No.	Exercise No.	Solved Problems: Sub Obj
	scaled - eg Age	(may be continuous.
	ordinal - Divided superior	into groups based on rity - Eq. Rankings, yes no questions
	nominal - Divided,	into groups but no Eg: Religion, gender.

Analyze -> descriptive -> frequency

statistics -> frequency

educational quality

**

Bargraphs (Eg. gender, marital status)

Can choose based on convinience

Yes no, of questions are better on

abor graphs while questions with a few

options are better on a pie dhart.

Do Not use these both for continuous

data.

For continuous / scalad data, use histograms (Eg: Age, income etc).

Normality plot an be plotted & we may

Normality plot au de plotted e une may got the skoupness coefficient.

* For all the 3 graphs we an got moun, modian, range, variance etc as per our requirement.

Q No. Exercise No.

Objective Problems: Level / Section -

Analysis Of Nominal Data.

The the data is nominal, χ^2 test our be done to check if the variables are independent - deut. (Continuous data may grouped & then X2 test may be performed).

Eq: gender v/s educational qualitication. locality v/s no of dildren.

Descriptive statistics -> cross tabs -> choose a row & column -> statistics -> X² independence & correlation

(x2 test tells if or variables are independ - ent but wont tell us by how much they differ)

* Crosstabs table: - Gives values of Oi VIS Ei 96 E; >5 -> use Pearwon X2 value. If Ei <5 -> use Likalihood Value.

The X2 test table :-Ly Tells the . I. of calls that have a court of less than 5 L> gives χ^2 , p values (expected & calculated) Choose b/w Pearson, likelihood values appropriately. gives dof & LOS.

p-value.

Asymp. sig < 0.05 => Reject Hog
(2-sided) < 0.05 => Reject Hog
conclude that

Variable ave

dependent.

n No.

Exercise No.

Subjective Problems: Level / Section - 🗀

V

Analysis of Ordinal Data (Factor July)

Analyze -> Dimension Red" -> Factor.

based on Eigen values > 1

Descriptives -> KHO & Bartlettes Test - choose unrolated factor sol", scroe plot,

Rotation - unrelated data => Varimax.'
related data => directed oblimin.

Display rotated sol".

- 1) Correlation Matrix.
 - shows 1. of correlation b/w 2 items.
 - perfect correlation (i.e., i) is called a singularity -> one of the items should be removed in such cases to avoid duple acy.
 - Determinant Value should be >0.0001. Else, the items are v.v.v unvelated.
- 2) Pattern Hatrix (usually not needed) items with similar values can be considered to be similar.

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Subjective Problems: Level / Section - [

3) Scree plot e Communation Total Variance Table:

Scree plot - Values above Eigen Value 1 "
Constitute to most of the variance. Calen
also be seen from the cumulative column of
total variance table.

4) Communalities

Tells the proportion of variance of each variable. Data is good if all are about 0.5.

- 5) Rotated Component Hatrix
 Shows how much a variables and
- Sufficient & satisfactory.