

a) \* Party Correction - After agreeing on a odd or even party the computer analysis the data being transmitted, y a byte of data contains an even number of 1's and the parity is set to even then a 'O' is added to keep the byte even. If however the byte contains an odd amount of I's then an eschra 'I' is added to ensure that the byte transmitted contours an even number. The receiving computer realises that all bytes received should be even with error detection picking up those that are odd for retransmussion \*Cyclic Redundancy Check A packet of data is sent to the receiving computer with Before transmission the number of bits is calculated and then put through a formula to extract a 16 bit remainder that is also sent with the parket. The receiving computer receives the pocket and calculates the number of 6cts. This number 15 than put through the same formula to ansore. Y the remainder coloulated makers the remainder sent then



## transmission was successful

## b) Data Warehouse

Madison could organise its data into a Datawarehouse Data can then be used to gather reports about the database for analysis. Comparing persons data to historical data within the warehouse may help Madison to gauge the success of its inhatives

E.g. After implementing a new marketing campaign amid at Young women Madison wish to evaluate the success of the new campaign.

By comparing data gathered since the release of the campaign regarding sales to young women to previous sales in the same periods Madison can gauge the success of the campaign.

Data Mining

searches of the data wavehouse for patterns and frends to uncover links in the data

Eg. After using Data Mining for in their



Data Warehouse Madison realised the found out
that most people bought a scarf when they bought
a that. Using this data Modison could exploit
the relationship by offering such things as 50% of a
scarf with the purchase of a hat

John because he to not does not have an account.

The abuse of messaging systems can be seen here as damaging notes and personal shorts are being sent rather than business notes. The

The fort that the message wasn't spoken means that it may be taken out of convert. Part and John could be great mates and the notion of John being retrenched could be a joke

Messaging systems may receive alot of junk mail. Sam in this case may be sick of receiving stopid messages from Pat as it is distrocting him from his work.

The Hack Top Social interestion security of



the messaging system is also highlighted here as
Pats ressage if read by other people could get him
ento provole.
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