

(a) Parity check - data can be detected for errors using an additional bit called a parity bit. parity bit 15 calculated by ordiding the number of each byte. If the byte is sent as odd parity, then the number of one's (including the parity bit) will need to be odd. Upon receiving the byte, amount of one's is counted again and if it matches, it 13 assumed a successful transmission occured. Cyclic redundancy check (CRC) - the number of data bits in each packet is calculated then divided by a fixed divisor. The remainder is then sent along with the packet. Upon receiving the packet, the remainder is recalculated, and if mothing, the transmission was complete. Much faster and more accurate than parity bit. (b) Data mining - this is the process of searching database to look for trends. Many bosiness use data mining to discover useful patterns in sales or customers. In the case of Madison

they could allow data mining as way of discovering



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useful patterns such as: products people buy in comparison to their income bracket, locations of stores in compariso to products bought, etc. This -would allow Madison to better position their products, or reassess their marketing strategies in order to further advance their business \*Querying - querying would reorganise some of the data in the database. Shadow Special queries could be constructed in order to discover useful information in their database such as locations of customers, age of customers, etc. information could be used by Madison to reasses their target market to further their business Power relationships - a lower level worker has \*the ability to directly consult a higher level worker to talk about another employee (such as John). Chain of command is lost. Panger of misinterpretation - Sam could misinterpre \* Pat's meaning of the message as tone of voice

and body language are not conveyed.



*	Privacy & confidentiality - PAN John's privacy is
	being lost, as he does not have an email account
	but the others do - they can talk about him,
	spread Horax rumours, etc.
*	Social context - Pat and Sam's interpersonal
	skills may be hindered due to constantly talking ula
	messaging systems, rather than traditional face -to-face
	social relationships.
*	Information overload - the Internal messaging system
	is just another source of information for Pat and
	som, which increases the stress associated with nork
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