

a)

Credit card pin numbers, matched to the users credit card number. If the user ~~inputs~~ the wrong pin ~~3~~ three times while attempting a transaction their card is frozen because this error could occur if a card is stolen.

A parity check could be done at either end of the transaction, and transaction scrapped if an error has occurred - returning "failed transaction"

b)

Madison could construct a complex relational DBMS including as many details about its customers as possible, including their Age, income, buying habits, list of stores ~~you~~ ^{they} shop ~~at~~ and could create a query (or datamine) to work out how ~~to~~ and where Madison creates the most profit from credit card holders.

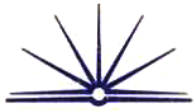
This information could then be used by Madison

In promotions held by the company which benefit both Madison and the consumer.

c)

John should receive or obtain an internal e-mail address, because if Madison is going to inform its employees of meetings or company details by internal email and not ~~all~~^{allow all} employees to have one it is not doing the company ^{any} justice.

If the internal e-mail is being used for non-conduc means, such as the message Pat sent to ~~the~~ Sa ~~the~~ all messages sent through the system should be logged and recorded for reading by management. If the terms of ~~the~~ using the internal mail system is explained before being setup for work purposes only then this is not a breach of privacy - however the message ~~the~~ Pat sent ~~the~~ would be a violation of her right to use.



the internal mail service, and it might be
~~the~~ ~~the~~ him/her that gets retrenched
sooner :-)