Security

Threats

- corrupt data - availability

Control

- encryption
- Grant/Revoke
- validate data
- flow control
- inference control

Useri's files

Data $=$

SELECT * FROM users WHERE uname =' MND pword =' lote ORI' $x^{\prime}=1^{\prime} x$

precision: protect sensitive data
while disclosing nonsensitive dato.

Access control (Rok based) assign a class to
subjects: users, programs objects: relation, tuples, columns views, operations
rules:
subject $S$ cant read object $\bigcirc$ unless

$$
\text { class }(s) \stackrel{\text { unless }}{=} \text { class ( } 0 \text { ) }
$$

subject $S$ cant write object o unless class $(s) \leq \operatorname{class}(0)$

