Evil





Surrogate Key Abuse



Society to Stop Surrogate Key Abuse

Key = a <u>unique</u> predicate which identifies a tuple



Key room 204 date 2009-04-17



Surrogate Key = an arbitrary unique ID value added to a tuple, unrelated to tuple contents



Surrogate Key ID 44906 room 204 date 2009-04-17



Surrogate Key Abuse = misuse of surrogate keys in a way which harms your data



Primary Key = meaningless implementation detail

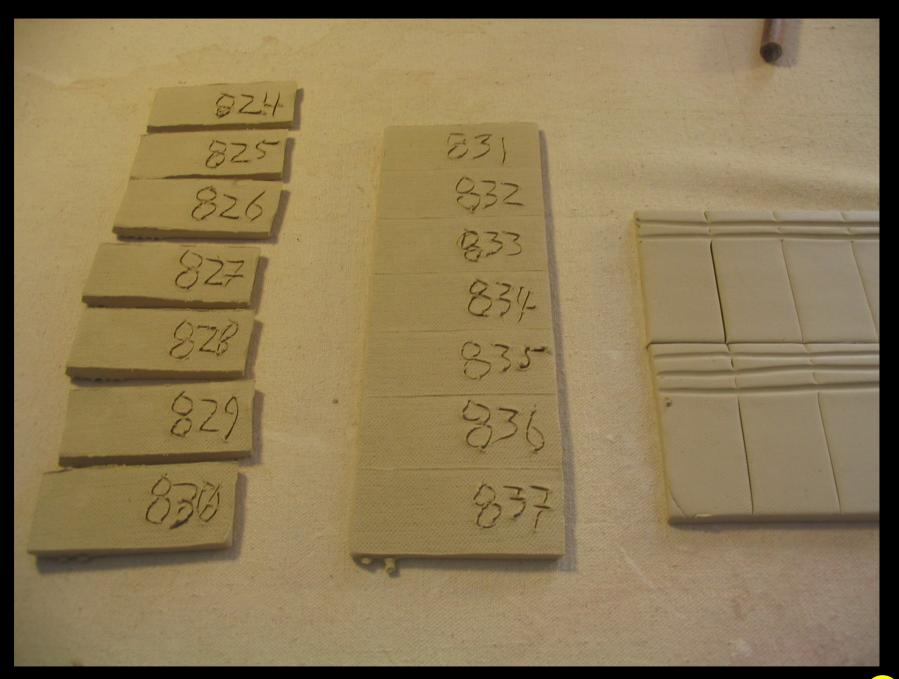








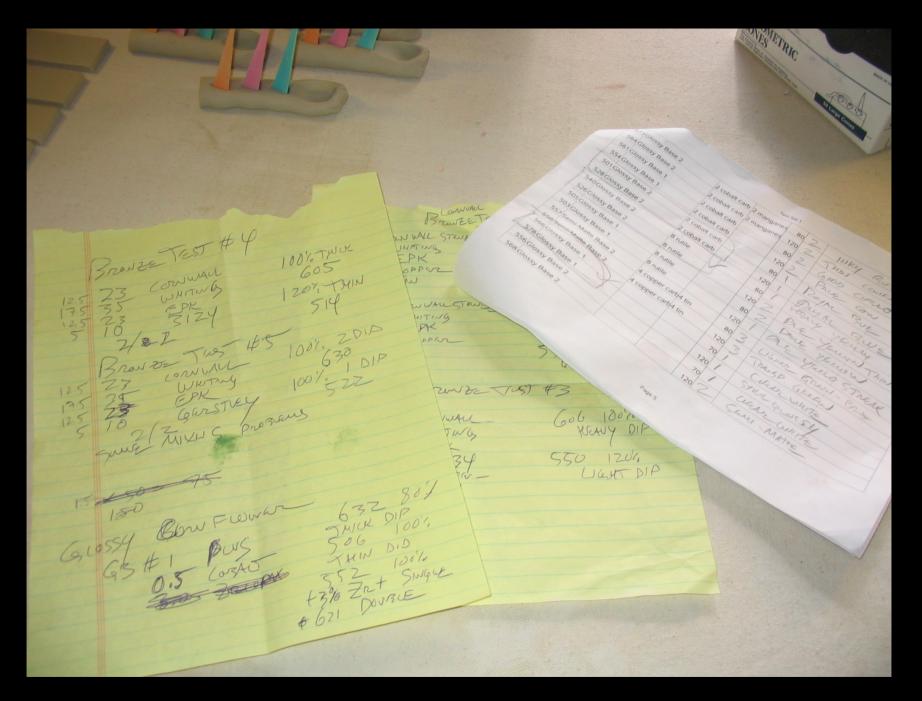




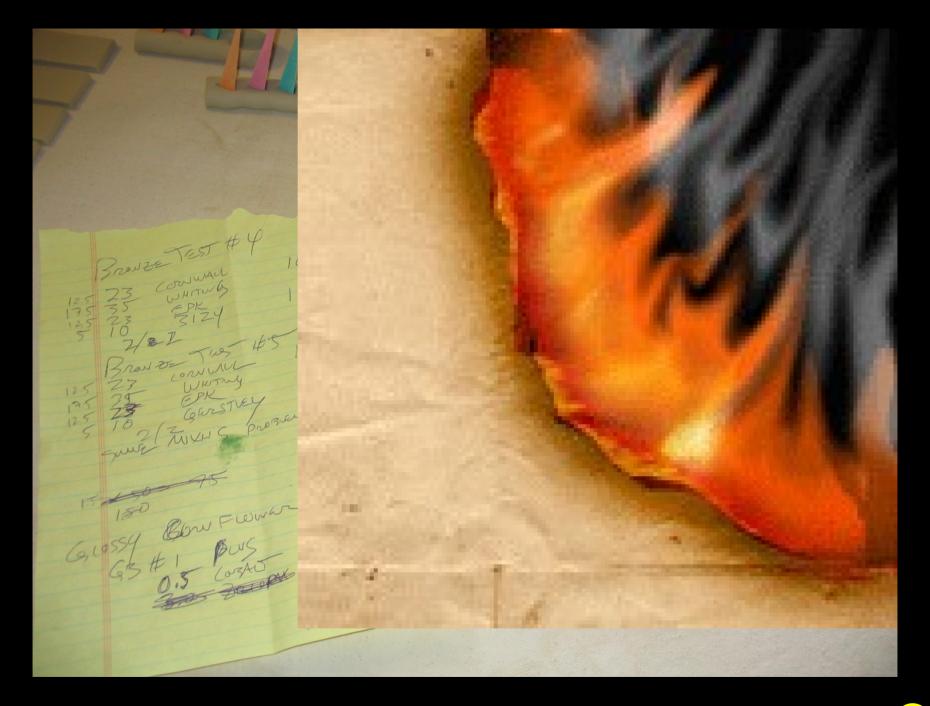














Forms of Abuse

- No real key
- Unnecessary surrogate keys
- Swapping keys



Forms of Abuse

- No real key
- Unnecessary surrogate keys
- Swapping keys
- ObjectIDs (and UUIDs)



• "It's standard"

"There isn't a good key"

"My framework requires it."

"Keys shouldn't change"



- "It's standard"
 wrong. SKs not in relational model
- "There isn't a good key" no, you just don't know what it is
- "My framework requires it." get a better framework
- "Keys shouldn't change" what's CASCADE for then?



Excuses "Performance"



premature optimization

= doing things for "performance" which you haven't tested



premature optimization

generally harms actual

performance



Avoid S.K.A.!

- Make sure all relations have real keys
- Use natural keys where you can
- Avoid premature optimization



If You Really Loved Your Data, You Wouldn't Abuse Keys.





Learn More about S.K.A.: http://it.toolbox.com/blogs/database-soup/primary-keyvil-part-i-7327 (google "primary keyvil")

