PINQ: Privacy Integrated Queries

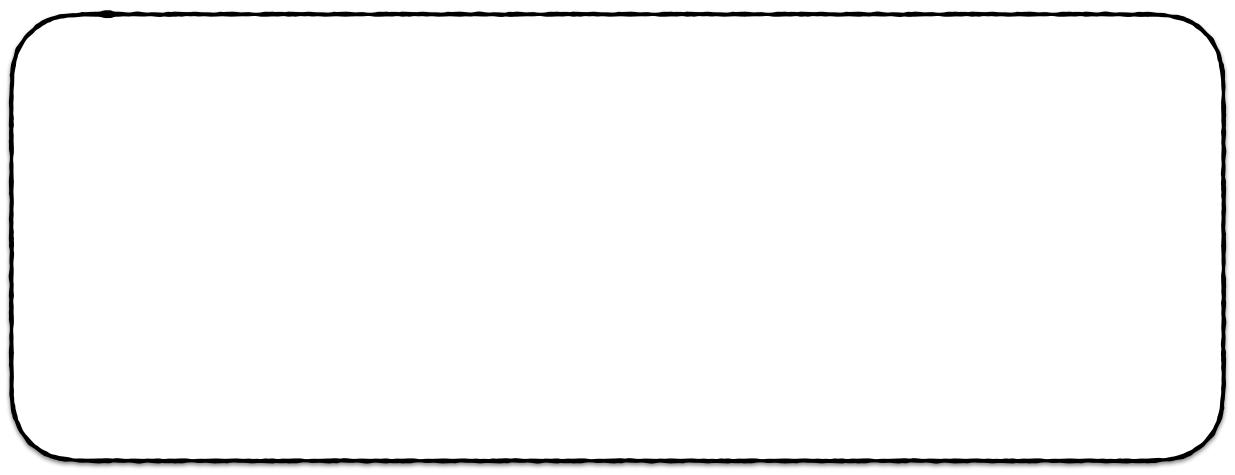
Restricting ourselves to counting questions is hard.

Can we recover that cool thing that MWEM did?

(MW really needs count questions)

Apparently. We can replace MW with MCMC.

(MCMC: Markov chain Monte Carlo)



- Let M(A): repeat until happy ...
 - 1. Use the exp mech to pick a PINQ program **p**,

Evaluate **p** on the the actual data **A**. (call it **m**).
Update estimated distribution **D**, using MCMC.

```
score(A, p) = -log Pr(p(A) I D).
```