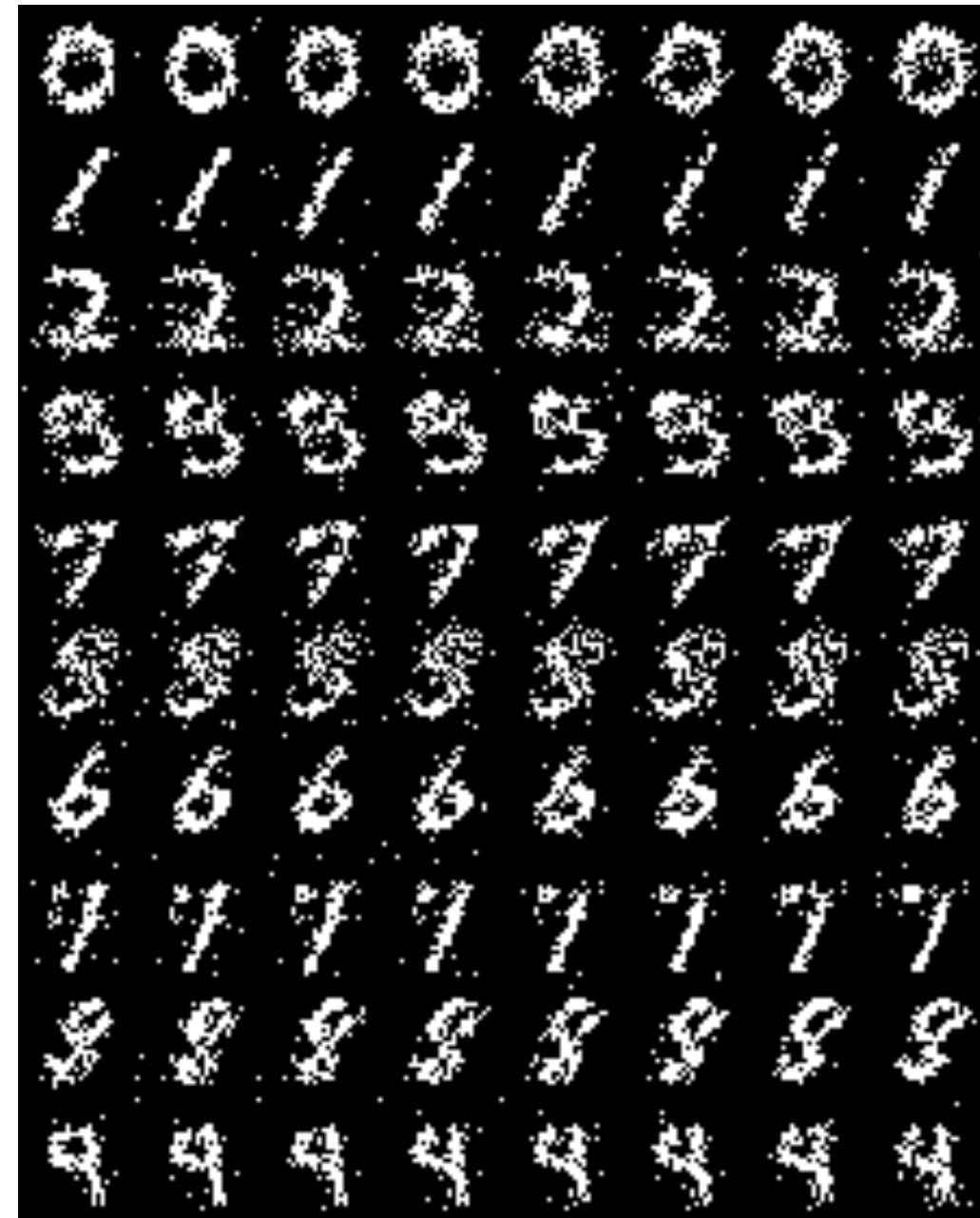


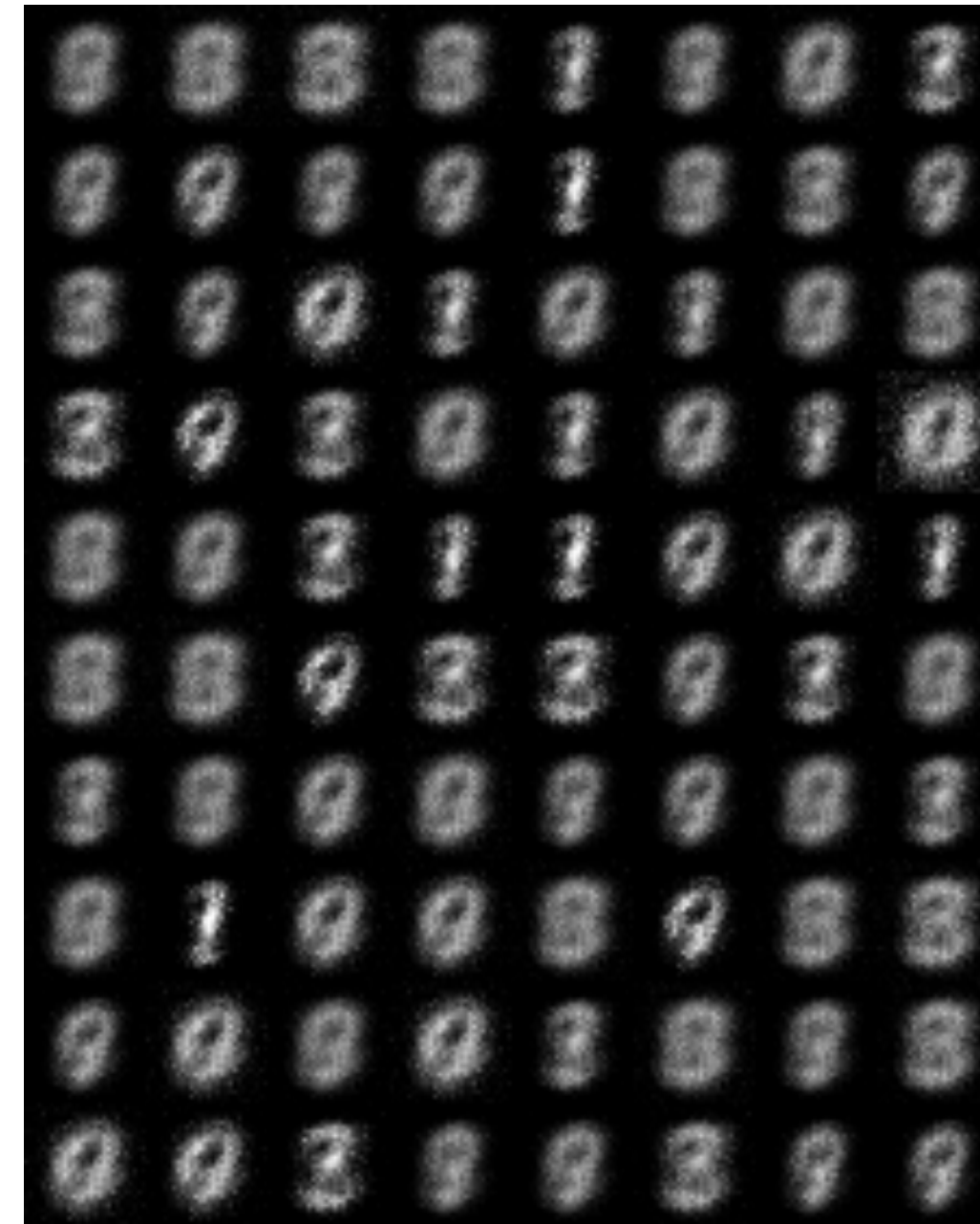
# Synthetic Samples (MNIST)



Original samples



RBM samples



VAE w/o clustering



VAE with clustering

Epsilon 1.74, 20 SGD epochs

# Counting-Query

Task: Given a dataset  $D$ , return the number of users in the dataset which satisfy a given predicate

## Evaluation:

Call-Data-Record (CDR) dataset of tower cells. Query returns the number of users in  $D$  who visited a subset of cells.

Dataset: approx. 4 million users, 1303 number of towers