**model training**

1. **Input of workload**

For training workload, please change workload\_path variable and specify the path of the workload. and Then run the train.py to train the model.

In the workload file, each line has a query statement. In each workload used for training, the number of query statements should be almost the same.

**② Workload feature extraction**

The model maintains an eigenvector for each input workload, Its form is as follows: [w1 , w2 , w3 , w4]

w1：read proportion

w2：update proportion

w3: scan proportion

w4: insert proportion

The model will automatically extract and generate the load feature vector according to the input load.

**③Training process**

According to the workload input for training, the model enters the training process of reinforcement learning. The training results of each round will be saved in the experience pool. After a certain number of rounds, the results will be taken out from the experience pool for model training. After the training, the training model will be recorded in the model\_ conv file.

**④Index recommendation**

In the process of index recommendation, we modify the path to the workload that needs to recommend index by changing workload\_path variable. Then run the test.py to make index recommendation.