

TP3 SQL to apply in reality in structure database

1. Query Optimization and Execution Plan

→ Using command: EXPLAIN ANALYZE to see the result of the query select below:

```
explain analyze select count(*) from customers limit 100;
```

2. Locking table

→ Create database name school

→ Create table course (course_name varchar length 20 required, description varchar/text)

→ insert subject and description with lock table

```
{“course_name”:”machine learning”, “description”:”Subject show us how to train machine to be intelligent”}
```

```
{“course_name”:”algorithm”, “description”:” Help us how to code”}
```

3. Transaction

→ using transaction insert two new course:

```
{“course_name”:”natural language processing”, “description”:”Subject to make computer recognize any kind of speech recognition”}
```

→ save point at this nlp part

```
{“course_name”:”Artificial Intelligence”, “description”:”make Detroit become Human” }
```

→ delete data that contains course_name natural language processing.

→ load point at this nlp part

→ release the save point

→ commit