

1.2

Department (<u>department\_id</u>, number of employees, department name, number of Licensed Engineer)

Project (project name, start date, end date, contract price, department\_id)

Employee (<a href="mailto:employee\_id">employee (employee\_id</a>, department\_id, project name)

Engineer (employee\_id, Licensed, project name, name)

Designer (employee\_id, project name, name)

Manager (employee\_id, project name, name)

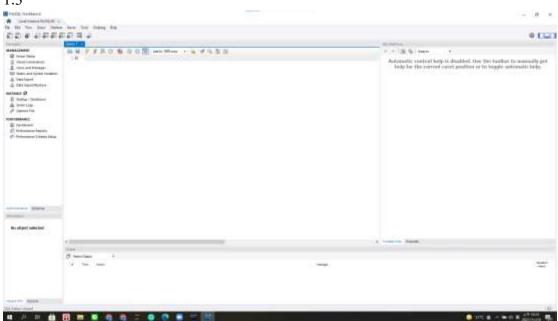
Design item (item name, design fee)

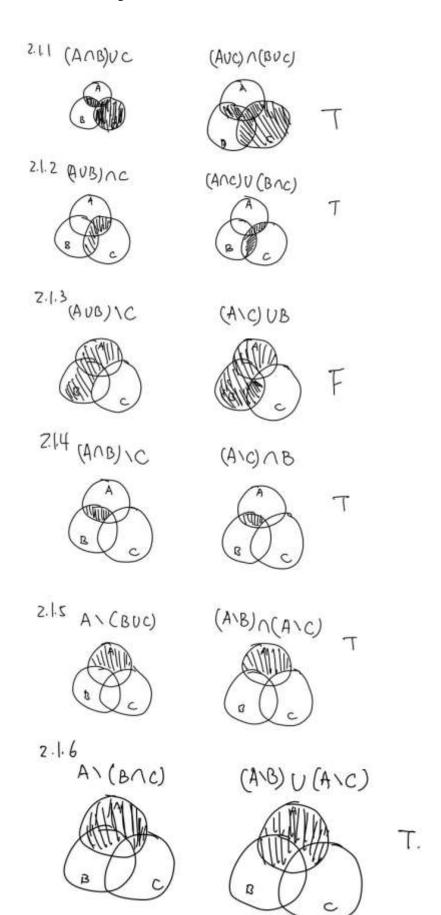
Project Doc (<u>Doc\_id</u>, employee\_id, Doc type)

train (<u>program\_id</u>,trainer\_employee\_id,trainee\_employee\_id)

Dependent (<u>depended\_employee\_id</u>, Dependent\_name,age)

1.3





## $\pi_{name,Licensed}[\sigma_{start\;date>2012}(Project\bowtie engineer)]$

 $\pi_{project\;name}(\sigma_{employee_{id} < 10}(\quad_{project\;name}G_{count(empoyee\_{id})}(Employee))$ 

```
/*2.2.1
SELECT name, Licensed
FROM(
SELECT Engineer.name, Engineer.Licensed, Project.Project_name, Project.start_date
FROM Engineer
JOIN Project
ON Engineer.project_name = Project.project_name) as new_table
WHERE `start_date` > '2012-01-01';

2.2.2
SELECT Project_name
FROM
(SELECT Project_name, count(employee_id) as number_of_employees
FROM Employee
GROUP BY Project_name) as t
WHERE number_of_employees>10;*/
```