BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

WORK-INTEGRATED LEARNING PROGRAMMES DIVISION
BITS-WIPRO Collaborative Programme
B Tech (Information Systems)_SIM Batch
Second Semester 2017-2018

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Assignment

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School Admission management system

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By-

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Problem definition:

- Today all the work at the time of admission of the student is done manually by ink and paper, which is very slow and consuming much efforts and time.
- It is required to design of a computerized automated student admission system, to speed up and make it easy to use a system.

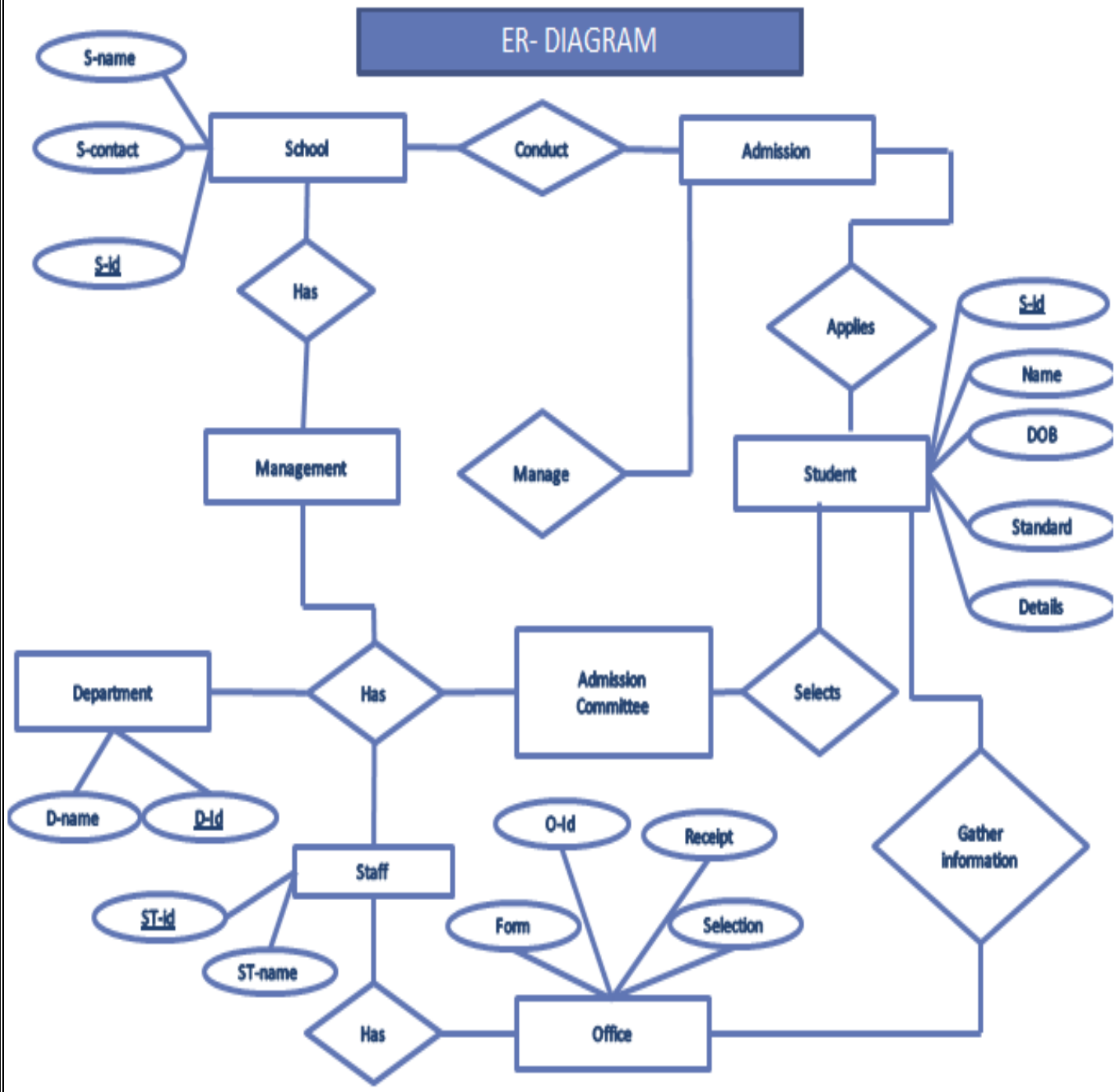
Purpose:

- This document gives the detailed functional and non-functional requirements mentioned in.
- It should be utilized by software developer to implement the system.

SRS of School Management system

- School management system database contains data of multiple school.
- Each School has a unique ID(SC-id), name(SC-name) and contact number (SC-contact)
- Every school has only one management team.
- The management team manage different department where each department has its own unique department id (D-id) and department name (D-name).
- Each department has staff which has their staff member's id (ST-id) and staff member name (ST-name).
- Every staff has their office where student can collect form, receipt and selection details.
- Every department has admission committee which manage he admission of student.
- Student has student id(S-id) , student name (S-name), DOB(S-dob), Standard(S-standard) and contact number (S-contact).
- Each student can gather information from office according to their department ad staff.

ER-Diagram


ER- DIAGRAM
S-name
S-contact
S-Id
School
Conduct
Admission
Has
Applies
S-Id
Name
DOB
Standard
Details
Management
Manage
Student
Department
Has
Admission Committee
Selects
D-name
D-Id
Staff
O-Id
Receipt
Gather information
ST-Id
ST-name
Form
Selection
Has
Office

Sequential diagram of school management system

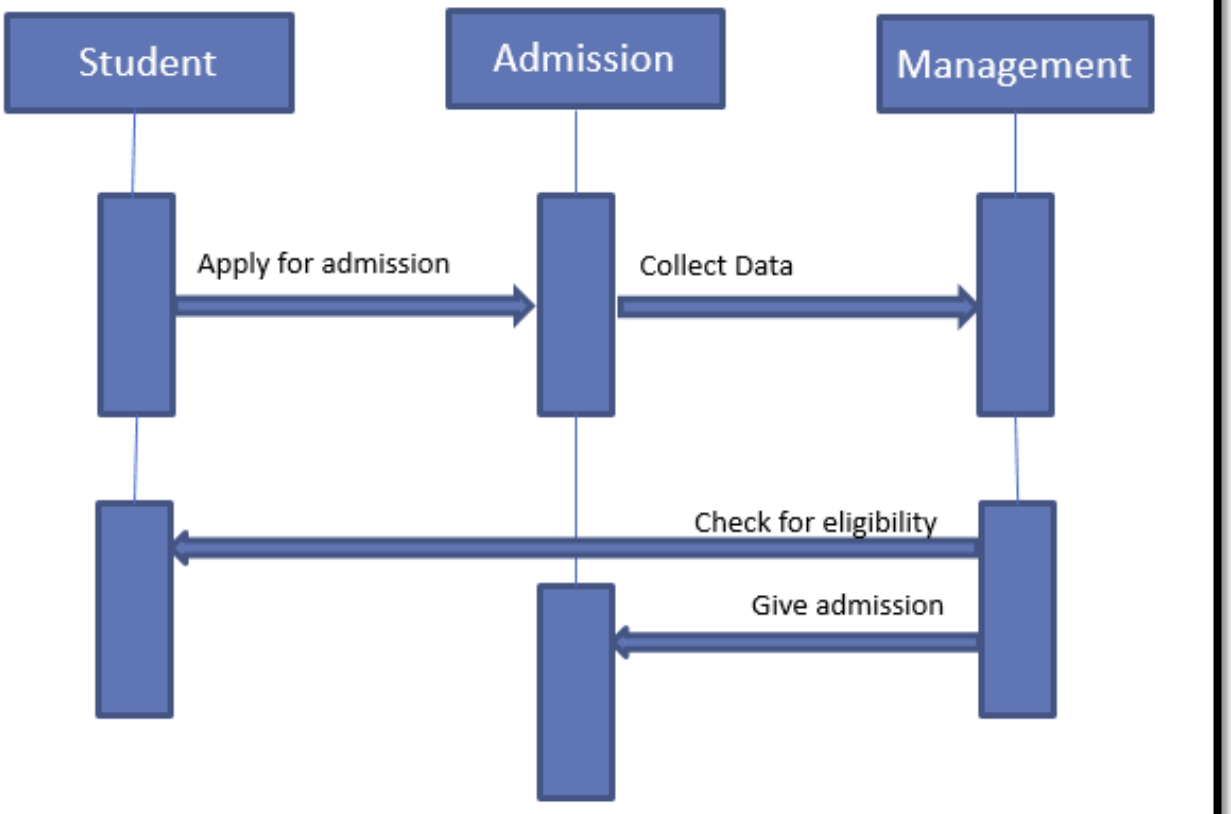
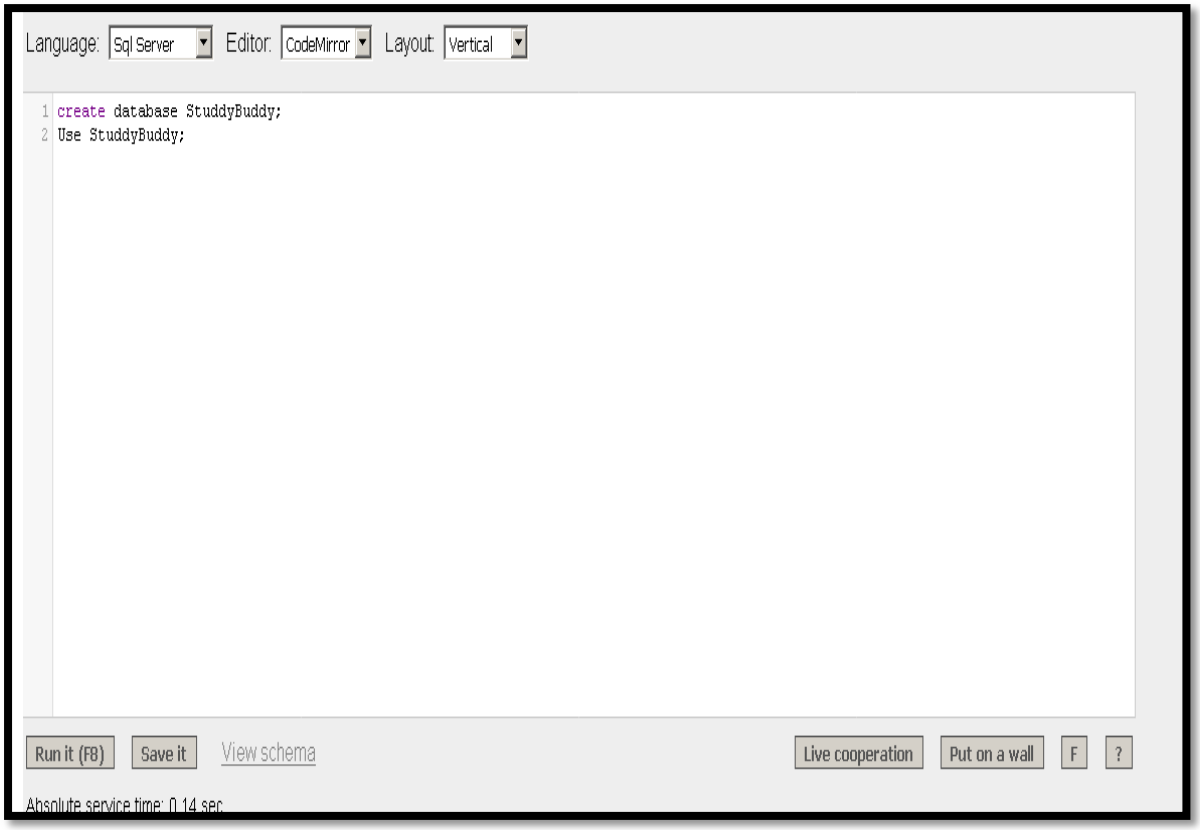


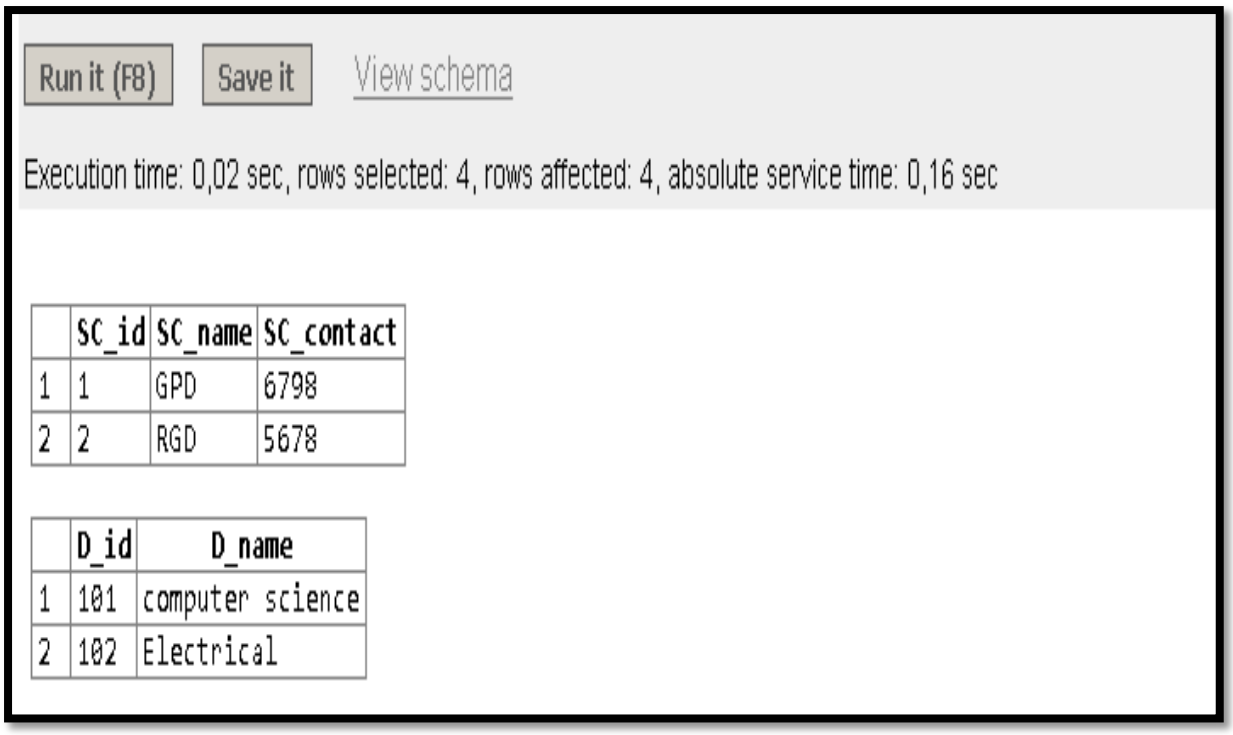
Figure:- Sequential diagram of school management system

1) Query for Creating and using the database:



2) Query for Creation of school table:

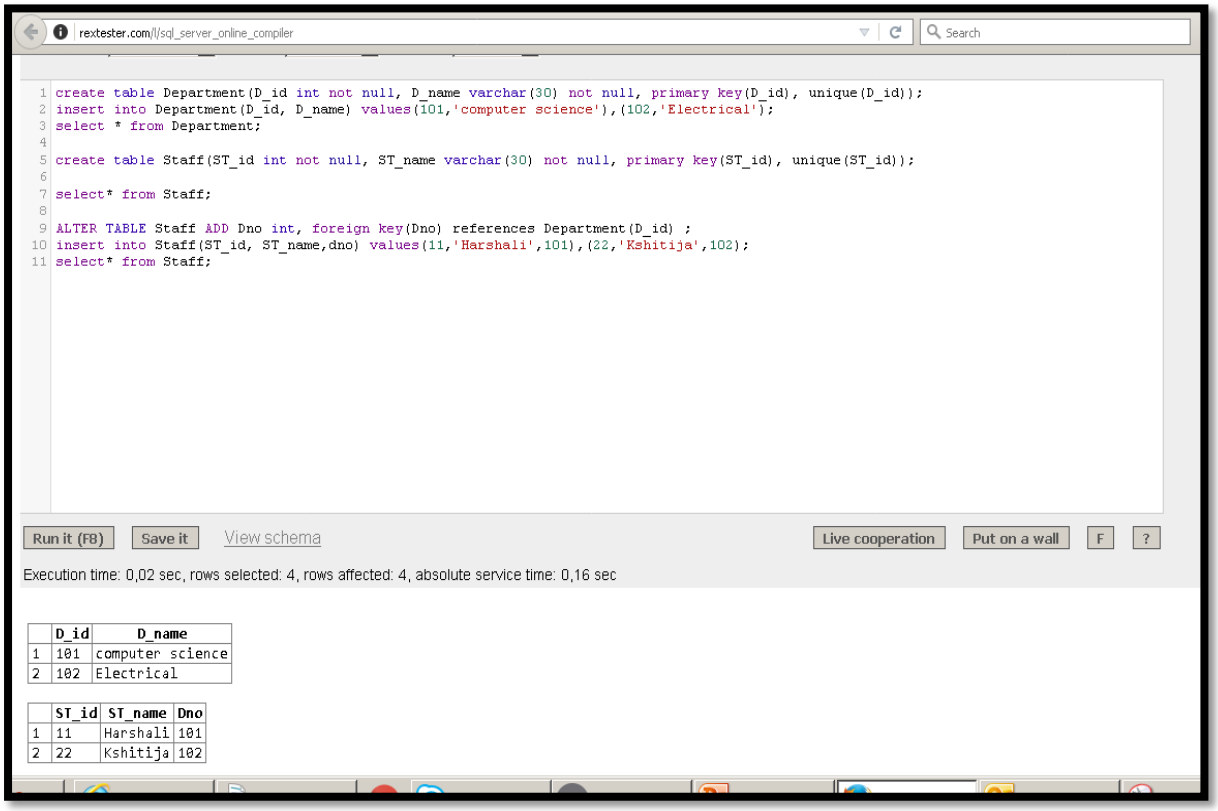
3) Query for Insertion into School table:



	SC_id	SC_name	SC_contact
1	1	GPD	6798
2	2	RGD	5678

	D_id	D_name
1	101	computer science
2	102	Electrical

4) Query to show the data of the table :



	D_id	D_name
1	101	computer science
2	102	Electrical

	ST_id	ST_name	Dno
1	11	Harshali	101
2	22	Kshitija	102

5) Query to alter the table schema:

compile sql server online

Language: Sql Server Editor: CodeMirror Layout: Vertical

```
1  create table Department(D_id int not null, D_name varchar(30) not null, primary key(D_id), unique(D_id));
2  insert into Department(D_id, D_name) values(101,'computer science'),(102,'Electrical');
3  select * from Department;
4
5  create table Staff(ST_id int not null, ST_name varchar(30) not null, primary key(ST_id), unique(ST_id));
6  select* from Staff;
7
8  ALTER TABLE Staff ADD Dno int, foreign key(Dno) references Department(D_id) ;
9  insert into Staff(ST_id, ST_name,dno) values(11,'Harshali',101),(22,'Kshitija',102);
10 select* from Staff;
11
12 UPDATE staff SET ST_name = 'Tanvi' where ST_id=11;
13 select* from Staff;
```

Run it (F8) Save it View schema Live cooperation Put on a wall F ?

Execution time: 0,03 sec, rows selected: 6, rows affected: 5, absolute service time: 0,19 sec

6) Query to update the value of any particular field:

Run it (F8) Save it View schema

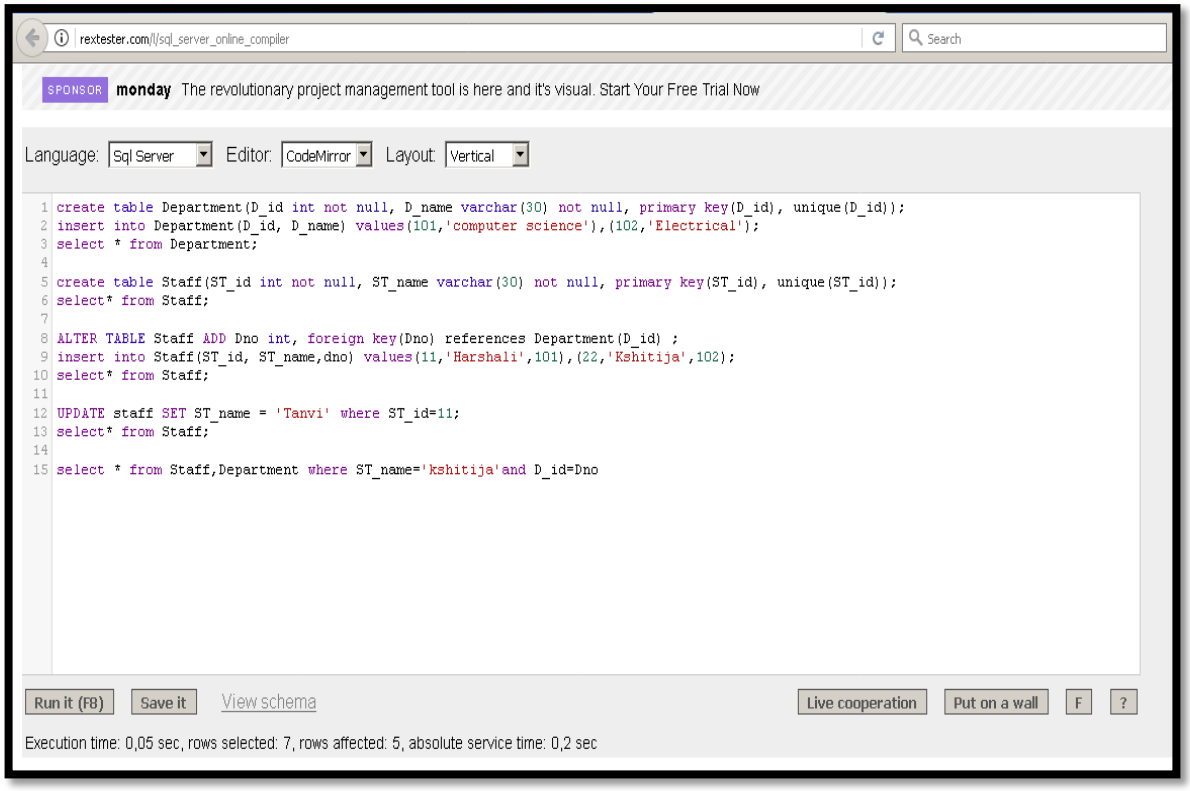
Execution time: 0,03 sec, rows selected: 6, rows affected: 5, absolute service time: 0,19 sec

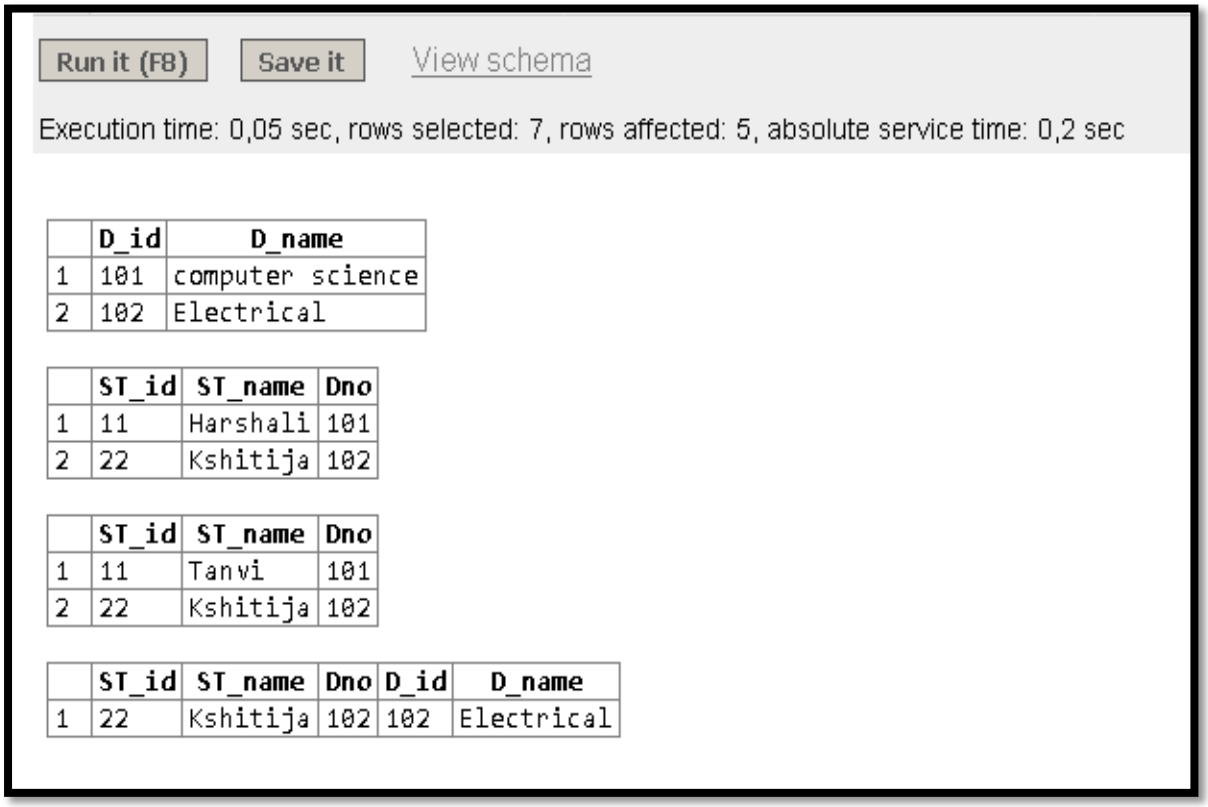
	D_id	D_name
1	101	computer science
2	102	Electrical

	ST_id	ST_name	Dno
1	11	Harshali	101
2	22	Kshitija	102

	ST_id	ST_name	Dno
1	11	Tanvi	101
2	22	Kshitija	102

7) Query to show any particular row or field using two different table(Relation of the table):





	D_id	D_name
1	101	computer science
2	102	Electrical

	ST_id	ST_name	Dno
1	11	Harshali	101
2	22	Kshitija	102

	ST_id	ST_name	Dno
1	11	Tanvi	101
2	22	Kshitija	102

	ST_id	ST_name	Dno	D_id	D_name
1	22	Kshitija	102	102	Electrical

SQL Queries

1) Query for Creating and using the database:

- *Create database StuddyBuddy;*
- *Use StuddyBuddy*

1) Query for Creation of school table :

- *create table student(ST_id int not null, ST_name varchar(30) not null, ST_contact int, primary key(ST_id), unique(ST_id));*

3) Query for Insertion into School table:

- *Insert into Student (ST_id,ST_name,ST_contact) values(01, 'Harshali', 995544),(02,'Kshitija',956622);*

4) Query to show the data of the table :

- *select* from Student;*

5) Query to alter the table schema:

- *alter table Staff add Dno int, foreign key(Dno)references Department(D_id);*

6) Query to update the value of any particular field:

- *update Staff set ST_name='Tanvi' where St_name='Harshali';*

7) Query to show any particular row or field using two different table (Relation of the table):

- *select* from Department,Staff where ST_name='Kshitija' and Department.D_id=Staff.Dno;*

Thank -You