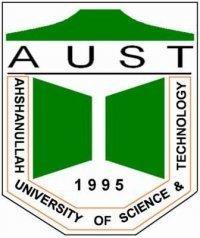
**Ahsanullah University of Science and**

**Technology**



**Distributed Database Lab**



**CSE 4126**



***Project name:*** National patient Management System.

***Submitted by:***

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***Submitted to:***

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National Patient management system

**Project Abstract:**

This will be a database of patient management system which will be able to be operated nationally. There will be the information of all patients around Bangladesh so that when a patient will go to a new doctor at new hospital, they will be able to check his/her past history through this database. So, the diagnosis will be more perfect and easy for the doctor and patient will be benefited at most.

**User of this database:**

Hospital authority.

**Need of having distributed database for this project:**

As this will be a national patient database so the data will be entered from every hospital around Bangladesh. That’s why we need distributed database management system.

**Global relations of this project:**

**Doctors** (dr\_id, dr\_name, dr\_age, dr\_sex , dr\_phn, dr\_email, dr\_hospital\_chamber, designation, degree, department, experience, time, Fee, day, primary key (dr\_id))

**Reports** (rep\_id, rep\_date, impression, primary key (rep\_id))

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**Medicine** (med\_id, med\_name, med\_generic\_name,med\_company, med\_work, med\_per\_price, primary key (med\_id))

**Diagnosis** (dia\_id, dia\_name, dia\_cost, dia\_requirements,dia\_hospital, rep\_id, primary key (dia\_id), foreign key(rep\_id) references reports(rep\_id))

**History** (his\_id, his\_date, problem, rep\_id, dr\_id, med\_id, primarykey (his\_id), foreign key(rep\_id) references reports(rep\_id), foreign key(dr\_id) references doctors(dr\_id), foreign key(med\_id) references medicine(med\_id))

**Surgical\_history** (s\_his\_id, s\_date, s\_name, s\_hospital, s\_cost, dr\_id,primary key (s\_his\_id), foreign key(dr\_id) references doctors(dr\_id))

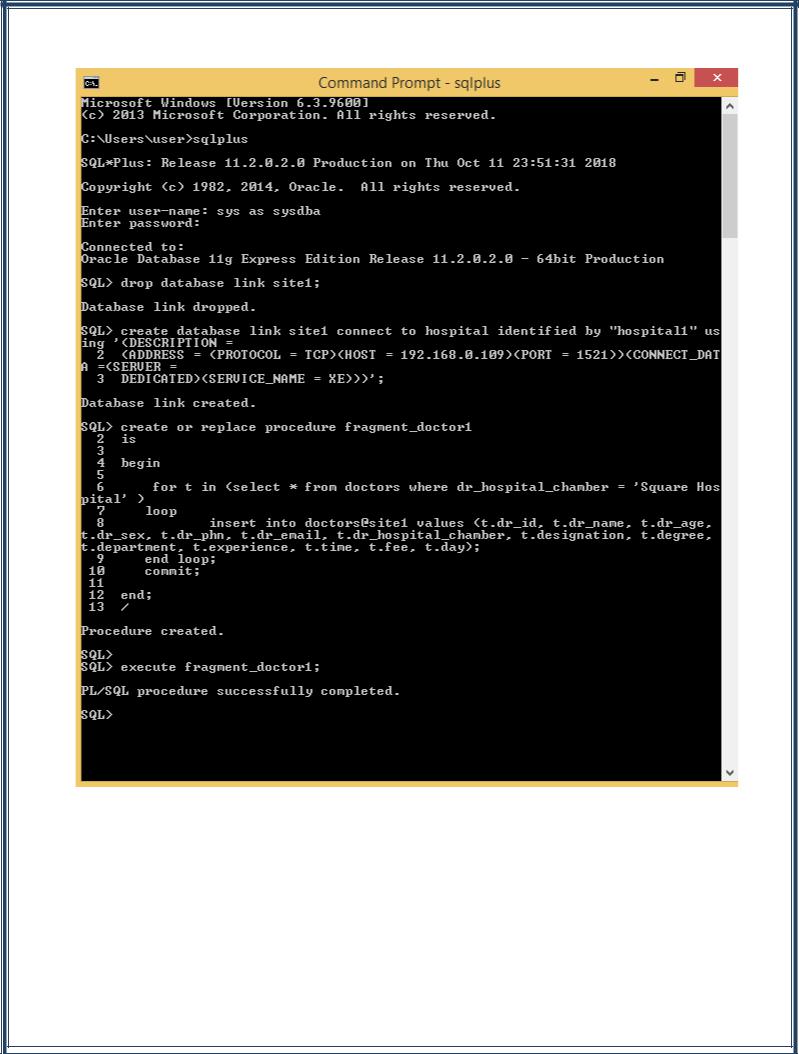
**Patient** (pt\_id, pt\_name, pt\_age, pt\_sex, pt\_phn, pt\_house, pt\_road,pt\_block, pt\_section, pt\_district, bl\_grp, weight, height, dia\_id, his\_id, s\_his\_id, primary key (pt\_id), foreign key(dia\_id) references diagnosis(dia\_id), foreign key(his\_id) references history(his\_id), foreign key(s\_his\_id) references surgical\_history(s\_his\_id))

**Fragments of this project:**

Doctors1 = SL dr\_hospital\_chamber=”Square Hospital” Doctors

Doctors2 = SL dr\_hospital\_chamber =”Medinova Diagnostic” Doctors

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**Sites of this project:**

Site1 (Square Hospital) : Doctors1, patient, reports, medicine, diagnosis, history, surgical\_history.

Site2 (Apollo Hospital) : Doctors2, patient, reports, medicine, diagnosis, history, surgical\_history.

**Triggers of this project:**

Trigger 1: There are two tables at site1 where male and female patients are differentiated.

Trigger 2: There is a new table at site 1 when a phone number of a patient is changed it is stored there.

**A procedure which works from site to server:**

There is a procedure named blood\_group\_find where from site1 means

from Square Hospital they can search patients of blood group B+ from

server’s patient table.

**Level-3 distribution transparency:**

If a doctor of Square hospital changes his chamber to Medinova diagnostic center then his information will be deleted from site 1 and inserted to site 2.

Select dr\_name, dr\_age, dr\_sex, dr\_phn, dr\_email, designation, degree, department, experience, time, fee, day into $dr\_name, $dr\_age, $dr\_sex, $dr\_phn, $dr\_email, $designation, $degree, $department, $experience, $time, $fee, $day from doctors1 at site1

Where dr\_id = 9002

IF #FOUND then,

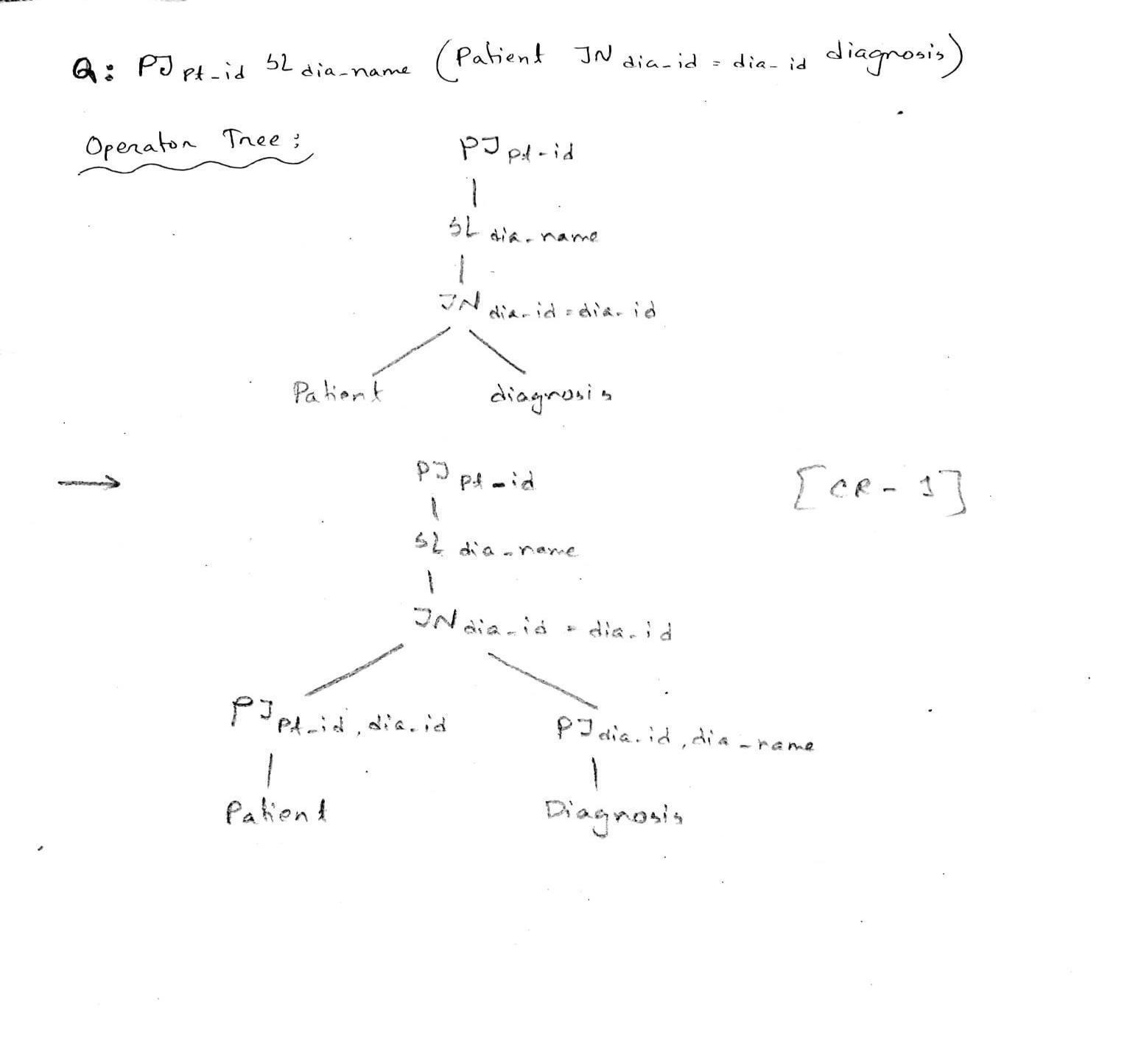
Insert into doctors2 at site2: (9002, $dr\_name, $dr\_age, $dr\_sex,

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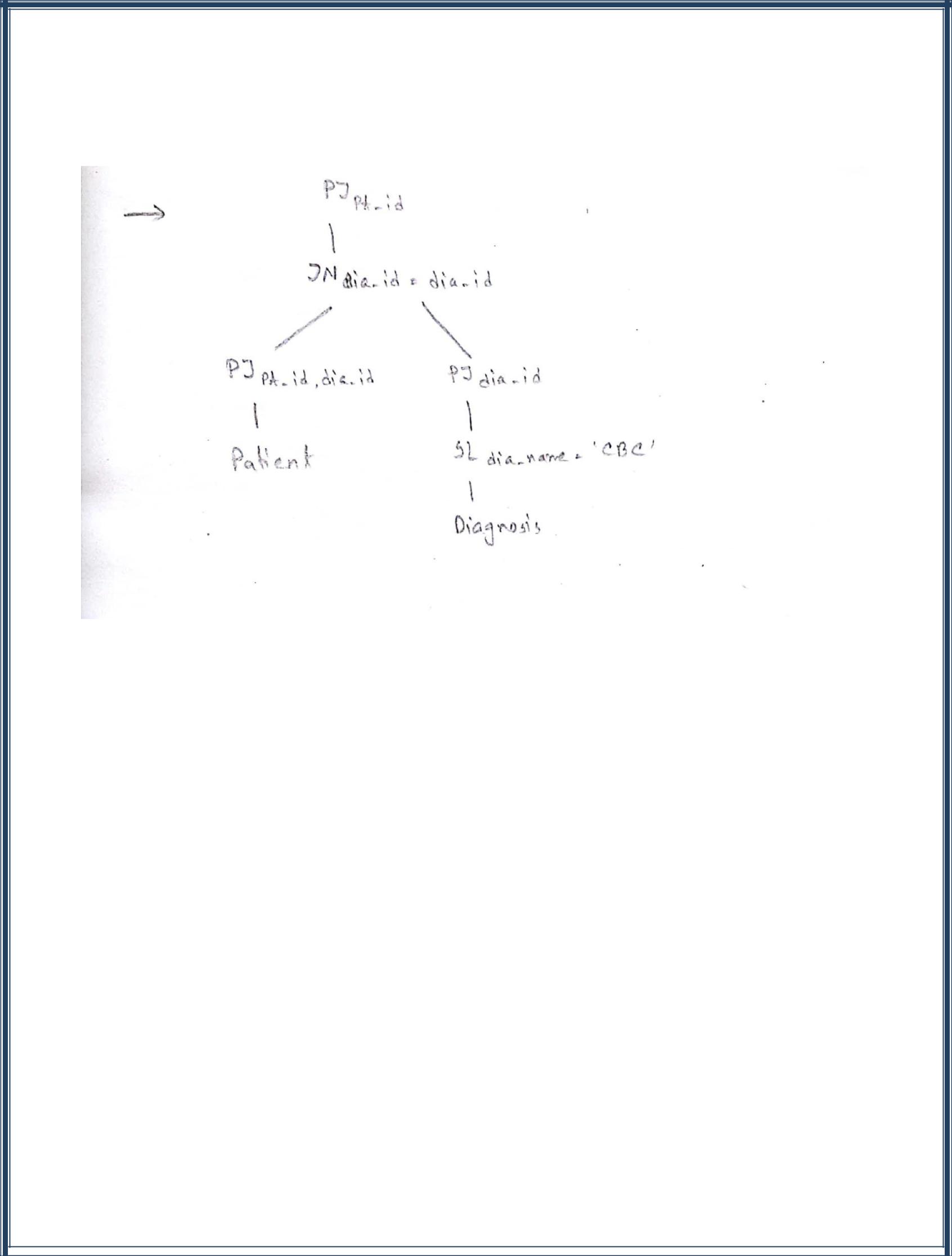
$dr\_phn, $dr\_email, “Medinova”, $designation, $degree, $department, $experience, $time, $fee, $day);

Delete doctors1 at site1 where dr\_id = 9002;

**Operator Tree:**



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**Conclusion:**

We have worked this far on this project. We hope that this project will be really helpful at our medical sector.

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