

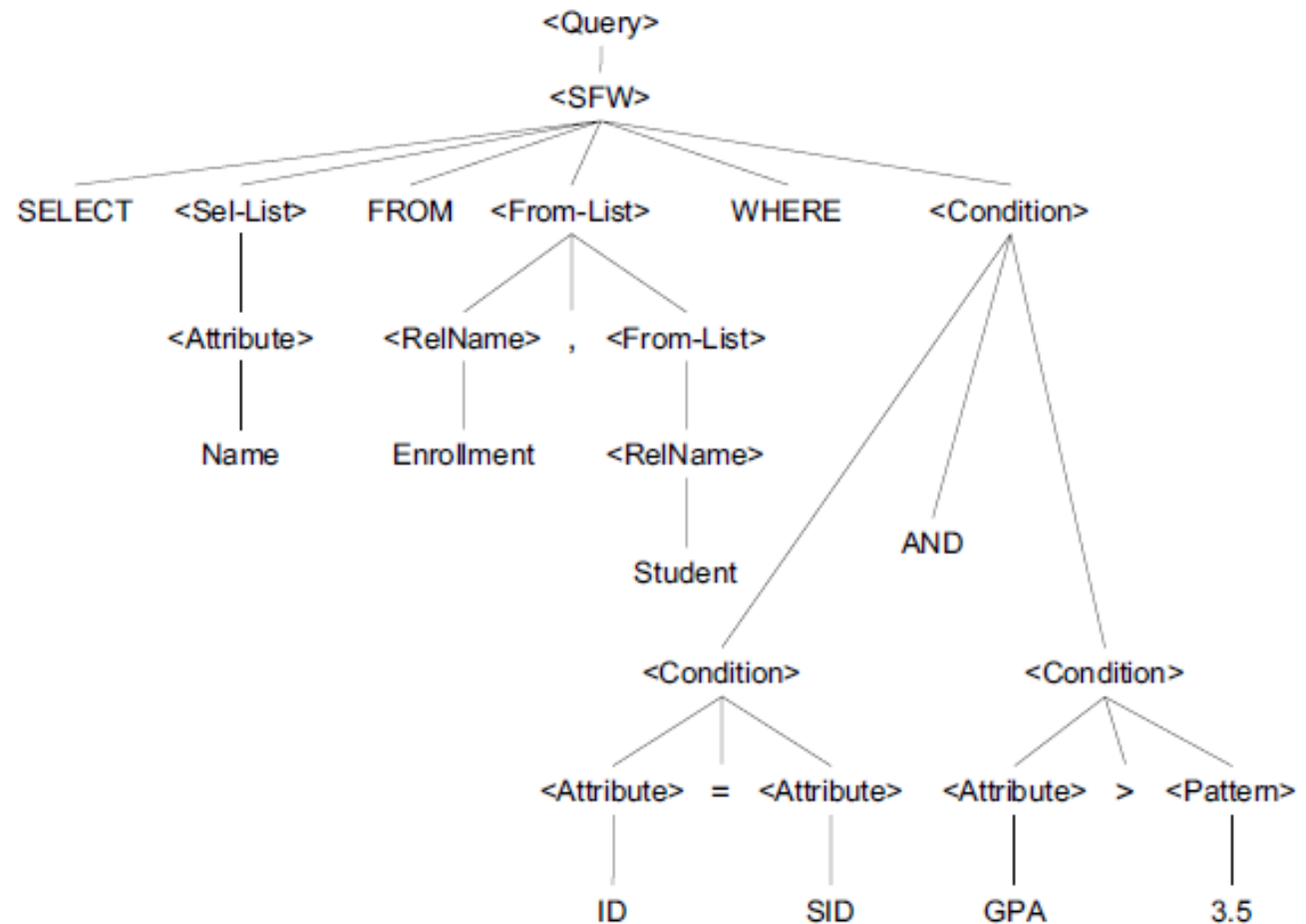
SQL Queries and Relational Algebra

MRU – Orestes Appel, PhD

SQL Query and associated Parse Tree

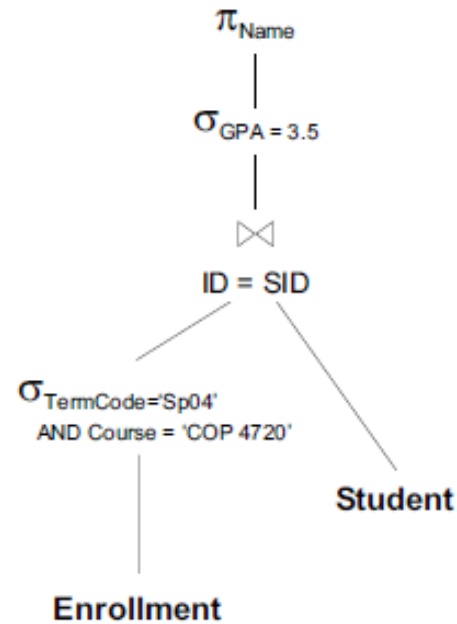
The parse tree for the query

```
SELECT Name
FROM Enrollment, Student
WHERE ID = SID AND GPA > 3.5
```

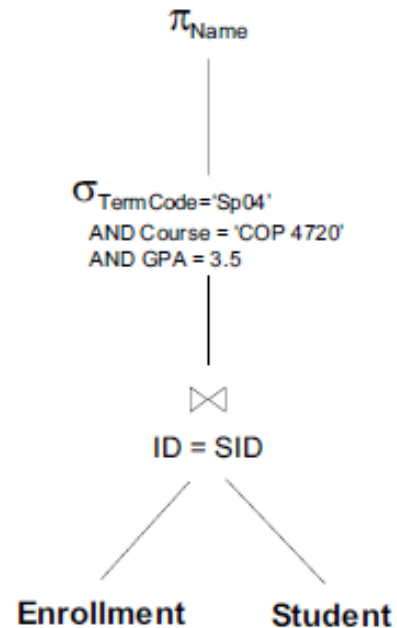


SQL Query and Expression Trees for three equivalent Logical Query Plans

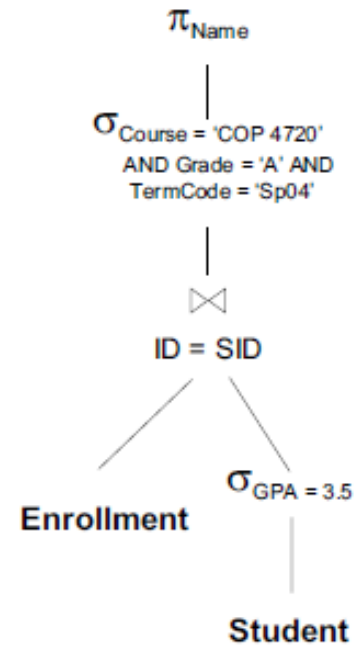
```
SELECT Name FROM Enrollment, Student
WHERE Enrollment.ID = Student.SID AND Enrollment.Course = 'COP 4720'
AND Enrollment.TermCode = 'Sp04' AND Student.GPA = 3.5;
```



(a)



(b)



(c)