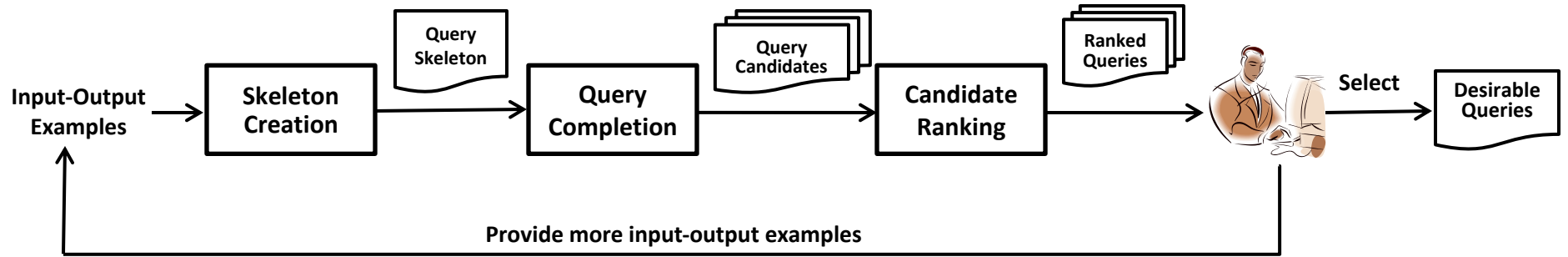


```
select    Student.Student_name, <Aggregation>
from      student, enrolled
where     student.Student_key = enrolled.Student_key
           and <Conditions>
group by  Student.Student_name
having    <Conditions>
```



Column1	Column2	Column3	Column 4
101	2001	3020	01-01-11
101	2001	3002	02-01-11
101	2001	3001	03-01-11
102	2002	3002	01-01-11

Column1	Column2	Column 3
20011	2001	200131
20012	2001	200132
20013	2001	200133

Column1	Column 2
20011	Site
20012	Site
20013	Site

(a) Three input tables: T1 (top), T2 (left), and T3 (right)



```

select min(T1.Column1), T2.Column3,
        min(T1.Column4), min(T3.Column2)
from T1, T2, T3
where T1.Column2 = T2.Column2
        and T2.Column1 = T3.Column1
group by T2.Column3
  
```

(b) A SQL query inferred by SQLSythensizer

101	200131	01-01-11	Site
101	200132	01-01-11	Site
101	200133	01-01-11	Site

(c) The output table

student_id	name	level
1	Adam	senior
2	Bob	junior
3	Erin	senior
4	Rob	junior
5	Dan	senior
6	Peter	senior
7	Sai	senior

student_id	course_id	score
1	1	4
1	2	2
2	1	3
2	2	2
2	3	3
3	2	1
4	1	4
4	3	4
5	2	5
5	3	2
5	4	1
6	2	4
6	4	5
7	1	2
7	3	3
7	4	4



```

select student.name, max(enrolled.score)
from student, enrolled
where student.student_id = enrolled.student_id
      and student.level = 'senior'
group by student.student_id
having count(enrolled.course_id) > 3

```

name	max_score
Dan	5
Sai	5

(a) The 'student' input table

(b) The 'enrolled' input table

(c) A SQL query inferred by SQLSynthesizer

(d) The output table