* classroom(building, room\_number, capacity)
* department(dept\_name, building, budget)
* course(course\_id, title, dept\_name, credits)
* instructor(ID, name, dept\_name, salary)
* section(course\_id, sec\_id, semester, year, building, room\_number, time\_slot\_id)
* teaches(ID, course\_id, sec\_id, semester, year)
* student(SID, name, dept\_name, tot\_cred)
* takes(SID, course\_id, sec\_id, semester, year, grade)
* advisor(sID, iID)
* Time\_slot(time\_slot\_id, day, start\_time, end\_time)
* prereq(course\_id, prereq\_id)

1.Display id of students who have taken the course offered by physics department

Ans:

Select student.SID from student, course, takes where course.dept\_name=”physics” and student.SID= takes.SID and course.course\_id =takes.course\_id;

2.List out the 4 credit courses offered by ICT department

Using, course(course\_id, title, dept\_name, credits)

select credits from course where dept\_name= “ICT” and credits=4;

3.Display names of all instructors from Maths department

Using instructor(ID, name, dept\_name, salary)

Select name from instructor where dept\_name=”Maths”

4. Retrieve the names of all instructors, along with their department names and department building name.

Using instructor(ID, name, dept\_name, salary)

department(dept\_name, building, budget)

Select name, dept\_name from instructor, department where instructor.dept\_name=department.dept\_name

5.Display Student and their respective advisor information.

advisor(sID, iID)

select \* from advisor;

6.Display **Course** and its prerequisite information.

prereq(course\_id, prereq\_id)

select \* from prereq;

7.Display the **computer science courses** which are held in **room no**=105 and building AB5

* classroom(**building**, room\_number, capacity)
* department(**dept\_name**, **building**, budget)
* course(course\_id, title, **dept\_name**, credits)

select course\_id from classroom, department, course where course.dept\_name =department.dept\_name and department.building=classroom.building and course.dept\_name=”CS” and building=’AB5’ and room\_number=105;

Alternatively,

* course(course\_id, title, dept\_name, credits)
* section(course\_id, sec\_id, semester, year, building, room\_number, time\_slot\_id)

select course\_id from course, section where course.course\_id=section.course\_id and building=’AB5’ and room\_number=105 and dept\_name=’CS’;

8. Display the student’ details who scored A or A+ grade in ICT3157 course.

* student(SID, name, dept\_name, tot\_cred)
* takes(SID, course\_id, sec\_id, semester, year, grade)

select name, dept\_name, grade from student, takes where student.SID= takes.SID and course\_id=’ICT3157’ and grade=”A” or grade=”A+”;

9. Display names of all advisors from Maths department

* advisor(sID, iID)
* instructor(ID, name, dept\_name, salary)

select name from instructor where iID=ID and dept\_name=”Maths”;