Student

Course

Batch

Q) SQL query to get the below student information

Htno

Name

Course name

select s.htno,s.sname,c.cname from student1 s join courses c on s.courseid=c.cid;

Q) SQL query to get the below student information

Htno

Name

Course name

Batch timings

select s.htno,s.sname,c.cname,b.timings from student1 s join courses c on s.courseid=c.cid join batch b on s.batchid=b.batchid;

Types of Joins

1. Inner Join or Equi Join
2. Outer Join
   1. Left Outer Join
   2. Right Outer Join
   3. Full Join
3. Cross Join

Inner Join or Equi Join

Fetches the matched data between both the tables

Ignores the unmatched data

We must use a keyword called JOIN to establish join between two tables

All above queries are the examples for Inner Join

Left Outer Join

* Fetches the matched data between two tables and unmatched from left hand side table
* LEFT JOIN is the keyword to implement left outer join

Q) Write a SQL query to retrieve all the student’s information who enrolled for some course as well as not enrolled for any course

select s.htno,s.sname,c.cname from student1 s left join courses c on s.courseid=c.cid;

OR

select s.htno,s.sname,c.cname from student1 s join courses c on s.courseid=c.cid(+);

Right Outer Join

* Fetches the matched data from two tables and unmatched from right hand side table
* RIGHT JOIN is the keyword to implement left outer join

Q) Write a SQL query to retrieve the list of students who enrolled for various courses

select s.htno,s.sname,c.cname from student1 s right join courses c on s.courseid=c.cid;

OR

select s.htno,s.sname,c.cname from student1 s join courses c on s.courseid(+)=c.cid;

Full Join

* Fetches the matched data from two tables and unmatched from both the tables
* FULL JOIN is the keyword to implement left outer join

Q) Write a sql query to retrieve the students and courses information

select s.htno,s.sname,c.cname from student1 s full join courses c on s.courseid=c.cid;

CROSS JOIN

* Every row from the Left hand side tables maps to all the rows present in the right hand side table

Ex: select s.htno,s.sname,c.cname from student1 s cross join courses c;