SQL

1. Primary Key….??(Parent Table)

Syntex : create table student(id int, rollno int , name varchar(50), subject varchar(50), primary key (id));

2. Foregin Key….??(Child Table)

Syntex : Create table course(id int ,cId int, cName varchar(50), subject varchar(50), FOREIGN KEY (id) references student(id));

**1. Whenever we insert value in child table we can insert only matching value with parent table, we can’t insert unmatching value.**

**2. Matching will be based on primary key column and foreign key column.**

3. Unique Key….??(Child Table)

Syntex : **create table student1(id int unique, rollno int unique, name varchar(50), subject varchar(50));**

4. Full Outer join in MYSQL.

**Full outer join does not support in MySQL so use UNION for full outer join like below.**

**Syntex : select \* from employee e Left outer join depart d ON e.id = d.deptid union select \* from employee e Right outer join depart d ON e.id = d.deptid;**

4. BETWEEN and IN Operator.

**Without between :**

**Select \* from student where age >= 23 && age <= 30;**

**Without between :**

**We cannot use && instead of and in between operator.**

**Select \* from student age BETWEEN 23 and 30.**

**IN Operator :**

**IN operator is used to avoid repetition of OR condition.**

**Without IN :**

**Select \* from student where name =”Santosh” OR name =”Priyanka” OR name =”Nitin”**

**With IN :**

**Select \* from student where name IN(”Santosh”, ”Priyanka”, ”Nitin”);**

**Select \* from student where name NOT IN(”Santosh”, ”Priyanka”, ”Nitin”);**

**(It will not include above name for NOT IN)**

4. Select second Hight salary of the employee.

**select \* from user order by salary desc limit 1 offset 1;**

5. Select max salary according to each department of the employee.

**1. select max(salary) from user group BY dept.**

**2. select \* from department d1 join (select dept\_id, max(salary) salary from department group by dept\_id) d2 ON d1.dept\_id=d2.dept\_id AND d1.salary = d2.salary;**

4. How to join three tables….??

**SELECT** **name**, scores, address, email **FROM** Student s   **INNER** JOIN Marks m **on** s.stud\_id = m.stud\_id   **INNER** JOIN Details d **on** d.school\_id = m.school\_id;

**SELECT** **name**, scores, address, email   **FROM** Student s, Marks m, Details d

**WHERE** s.stud\_id = m.stud\_id AND m.school\_id = d.school\_id;