# SQL

## HOTEL

1) create table Hotel (ID int, Name of the food varchar (255), Rate int);

2) Insert into ~~table~~ Hotel values (1, 'Biriyani', 100);
Insert into Hotel values (2, 'Fried Rice', 90);
Insert into Hotel values (3, 'Tandori', 100);

| ID | Name of the food | Rate |
|---|---|---|
| 1 | Biriyani | 100 |
| 2 | Fried rice | 90 |
| 3 | Tandori | 100 |

3) Alter table Hotel Add Type of food varchar (255);
Alter table Hotel Add place varchar (255);

| ID | Name of food | Rate | Type of food | place |
|---|---|---|---|---|
| 1 | Biriyani | 100 | Meals | Chennai |
| 2 | Fried Rice | 90 | Meals | chennai |
| 3 | Tandori | 100 | Starters | chennai |

Select MAX(Rate) from hotel where rate <
(Select MAX(Rate) from hotel);

Inner Join:-

Return records that have matching values in both tables.

(1) Student

| Roll No | Name | LOCATION | ph. No | Age |
|---|---|---|---|---|
| 1 | Alen | UP | 95100 | 17 |
| 2 | Peter | AP | 701100 | 18 |
| 3 | Ruby | TN | 824965 | 18 |

(2) Course.

| CourseID | Roll No |
|---|---|
| 101 | 1 |
| 102 | 2 |
| 103 | 3 |

* Select student.name, student.age, course.courseID from student Inner join course ON student.rollNo = course.RollNo

| Name | age | CourseID |
|---|---|---|
| Alen | 17 | 101 |
| Peter | 18 | 102 |
| Ruby | 18 | 103 |

* Select student.loc, student.phno, Course.courseid from student inner join course on student.rollno = course.RollNo

| loc | ph No | courseID. |
|---|---|---|
| UP | 95100 | 101 |
| AP | 701100 | 102 |
| TN | 824965 | 103 |

Left outer join:

Returns all record from left table and matched record from Right table.

* Select Student.name, Course.courseid from student left join Course on Course.RollNo = student.rollno;

| Name | Courseid |
|---|---|
| Alen | 101 |
| Peter | 102 |
| Ruby | 103 |

* Select Emp_name, order No from Employee Left join orde on Employee.emp_ID = order ID;

| Emp_Name | order No |
|---|---|
| Rio | 1111 |
| Raven gt | 2222 |
| Rahul | 5555 |
| Ravi | 7777 |
| Sara | 9999 |

* Select Stu_ID, Mark from student left join Mark on student.stu_ID = marks.stu_ID;

| Stu_ID | Marks |
|---|---|
| T001 | 98 |
| T002 | 97 |
| T003 | 85 |
| T004 | 81 |

Right outer join :-

Return all records from right table and matched from the left table.

* Select Student.name, Course.course id from Stude
Right join course on student.roll no = course.roll

| Name | Course ID |
|---|---|
| Alex | 101 |
| Peter | 102 |
| Ruby | 103 |

Select Emp_Name, order No from employee Right Join order On Employee. Emp-id = order. ID;

| Emp-name | order Number |
|---|---|
| Rio | 1111 |
| Ravi | 7777 |
| Sara | 9999 |

* Select stu_ID, Marks from student Right Join Marks on student. stu_ID = Marks. Stu_ID.

| stu-ID | Marks |
|---|---|
| T001 | 98 |
| T002 | 97 |
| T003 | 85 |
| T004 | 81 |

Subquery :-

Employee

| EmpID | Emp Name | Job_name | manager_ID | hire date | Salary | Commion | dep_id |
|---|---|---|---|---|---|---|---|
| 150 | Alen | Consultant | 1 | 5/9/2011 | 40000 | 0 | 500 |
| 242 | Peter | JD | 2 | 1/4/2013 | 50000 | 0 | 600 |
| 304 | Ruby | AP | 3 | 2/5/2014 | 40000 | 0 | 700 |
| 434 | Andrew | Writter | 4 | 8/7/16 | 30000 | 0 | 800 |
| 609 | Rakan | Tester | 5 | 9/7/19 | 45000 | 0 | 900 |

* Select Emp_name from Employee where Salary > (Select Salary from Employee where Emp_id = 609);

output

| Emp name |
|---|
| Peter |

* Select Max(Salary) from Employee where Salary < (Select Max(Salary) from Employee);

| Salary |
|---|
| 45000 |

Salary

* Select Emp_Name, Emp_Name, Manager ID from Employee where Salary < (Select Salary from Employee where Sal > 4000

| Emp_Name | Manager_ID | Salary |
|---|---|---|
| Peter | 2 | 50000 |
| Rakan | 5 | 45000 |