

Lab SQL (Join)

Create the following tables with the help of the description given below and solve the SQL queries.

Trainer

Column Name	Data Type	Description
TrainerID	Number(2)	Primary Key
TrainerName	Varchar2(10)	Not Null
EmailID	Varchar2(10)	Unique
Phone	Varchar2(10)	Can be null

Trainer

TrainerID	TrainerName	EmailID	Phone
1	Abraham	t1@i.com	9844499901
2	Boyce	t2@i.com	9844499902
3	Camilla	t3@i.com	9844499903
4	Davis	t4@i.com	9844499904
5	Elsa	t5@i.com	9844499405

Course_Details

Column Name	Data Type	Description
CourseID	Char(3)	Primary Key
CourseName	Varchar2(40)	Not Null

Course_Details

CourseID	CourseName
GPF	Programming Fundamentals
GDB	Relational Database Management System
ODB	Oracle 9i
OVb	Visual Basic
JJA	Java
JJE	Java JEE1

Batch_Schedule

Column Name	Data Type	Description
BatchName	Varchar2(8)	PK
CourseID	Char(3)	FK/PK
Start_Date	Date	Not Null
End_Date	Date	Not Null, End_Date should be > = Start_Date

Batch_Schedule

BatchName	CourseID	Start_Date	End_Date
Batch1	GPF	10-Jan-2008	20-Jan-2008
Batch1	GDB	21-Jan-2008	31-Jan-2008
Batch1	ODB	01-Feb-2008	20-Feb-2008
Batch1	OVb	21-Feb-2008	28-Feb-2008
Batch2	GPF	10-Jan-2008	20-Jan-2008
Batch3	GPF	21-Jan-2008	01-Feb-2008
Batch3	JJA	02-Feb-2008	08-Feb-2008

FeedBack

Column Name	Data Type	Description	
TrainerID	Number(2)	FK	PK
CourseID	Char(3)		
BatchName	Varchar2(8)	FK	
FBRate	Number(3,2)	Not Null, FBRate should be between 0 and 5.	

FeedBack

TrainerID	CourseID	BatchName	FBRate
1	GPF	Batch1	4.18
2	GDB	Batch1	4.65
3	ODB	Batch1	4.51
4	OVb	Batch1	4.68
5	GPF	Batch2	4.28

1	GPF	Batch3	4.28
3	JJA	Batch3	4.32

Perform the following queries:

- 1- List the TrainerName, CourseID and FBRate of all the Trainers, who have handled the sessions.
- 2- List the TrainerName, CourseName and FBRate of all the handled courses.
The output should be <TrainerName> <CourseName><FBRate>
- 3- List the name of trainers who have handled more than one course.
- 4- List the TrainerId, name of trainers, course names and the number of times each course has been handled.
- 5- List the batch name and start date of batches starting on the same date.
(Hint: Use concept of Self Join)
- 6- List the Course Name and average FBRate the course. Also print the CourseName even if the Feedback is not available for that course.
(Hint: use concept of Outer Join)
- 7- List the CourseID which has the highest average feedback.