

Devashish Kankanwar

ASSIGNMENT 2

```
CREATE TABLE Module_Info
(
Module_id VARCHAR2(20) NOT NULL,
Module_Name VARCHAR2(40),
Module_Duration NUMBER(11),
CONSTRAINT Module_Info PRIMARY KEY
(
Module_id
)
ENABLE
);
CREATE TABLE QUESTIONS(
QUESTION_Id varchar2(20) NOT NULL,
Module_id varchar2(20) ,
Question_Text varchar2(900),
PRIMARY KEY (QUESTION_ID),
FOREIGN KEY (Module_id)
REFERENCES Module_Info(Module_Id) ENABLE
);
```

```
CREATE TABLE Associate_Info
(
Associate_id VARCHAR2(20) NOT NULL,
Salutation VARCHAR2(7),
Associate_Name VARCHAR(30),
Associate_Location VARCHAR2(30),
Associate_Track VARCHAR2(15),
Associate_Qualification VARCHAR2(200),
Associate_Email VARCHAR2(100),
Associate_Password VARCHAR2(20),
CONSTRAINT Associate_Info PRIMARY KEY
(
Associate_id
)
ENABLE
);
```

create table Associate_Status(

**Associate_Id varchar2(20),
Module_Id varchar2(20),
Start_Date varchar2(20),
End_Date varchar2(20),
AFeedbackGiven varchar2(20),
TFeedbackGiven varchar2(20),**

**foreign key(Associate_Id) references Associate_Info(Associate_Id),
foreign key(Module_Id) references Module_Info(Module_Id)
ENABLE
);**

**CREATE TABLE Associate_Feedback(
Associate_id varchar2(20),
Question_id varchar2(20),
Module_id varchar2(20),
Associate_Rating varchar2(11),
foreign key(Associate_Id) references Associate_Info(Associate_Id),
foreign key(Module_Id) references Module_Info(Module_Id),
foreign key(Question_id) references Questions(QUESTION_Id)

);**

**CREATE TABLE Login_Details(
User_id varchar2(20),
User_password varchar2(20),
);**

**CREATE TABLE Trainer_Info
(
Trainer_id NUMBER(20) NOT NULL,
Salutation VARCHAR2(7),
Trainer_Name VARCHAR2(30),
Trainer_Location VARCHAR2(30),
Trainer_Track VARCHAR2(15),**

```
Trainer_Qualification VARCHAR2(100),
Trainer_Experience NUMBER(11),
Trainer_Email VARCHAR2(100),
Trainer_Password VARCHAR2(20),
CONSTRAINT Trainer_Info PRIMARY KEY
(
Trainer_id
)
ENABLE
);
```

```
CREATE TABLE Batch_Info
(
Batch_id VARCHAR2(20) NOT NULL,
Batch_Owner VARCHAR2(30),
Batch_BU_Name VARCHAR2(30),
CONSTRAINT Batch_Info PRIMARY KEY
(
Batch_id
)
ENABLE
);
```

```
CREATE TABLE Trainer_Feedback (
Trainer_id VARCHAR2(20),
Question_id VARCHAR2(20),
Batch_id varchar2(20),
Module_id varchar2(20),
Trainer_Rating number(11),
FOREIGN KEY (Trainer_id)
REFERENCES Trainer_Info(Trainer_id),
FOREIGN KEY (Question_Id)
REFERENCES Questions(Question_Id),
FOREIGN KEY (Batch_Id)
REFERENCES Batch_Info(Batch_id),
FOREIGN KEY (Module_id)
REFERENCES Module_Info(Module_Id)
);
```

```
ALTER TABLE Trainer_Info
MODIFY Trainer_Id varchar2(20);
```

insert into Batch_Info values('B001','MRS.SWATI ROY','MSP');
insert into Batch_Info values('B002','MRS.ARURNA K','HEALTHCARE');
insert into Batch_Info values('B003','MR.RAJESH KRISHNAN','LIFE SCIENCES');
insert into Batch_Info values('B004','MR.SACHIN SHETTY','BFS');
insert into Batch_Info values('B005','MR.RAMESH PATEL','COMMUNICATIONS');
insert into Batch_Info values('B006','MRS.SUSAN CHERIAN','RETAIL AND HOSPITALITY');
insert into Batch_Info values('B007','MRS.SAMPADA JAIN','MSP');
insert into Batch_Info values('B008','MRS.KAVITA REGE','BPO');
insert into Batch_Info values('B009','MR.RAVI SEJPAL','MSP');

insert into Questions values('Q001','EM001','Instructor knowledgeable and able to handle all your queries');
insert into Questions values('Q002','EM001','All the topics in a particular course handled by the trainer without any gaps or slippages');
insert into Questions values('Q003','EM002','The course materials presentation, handson, etc. referred during the training are relevant and useful.');
insert into Questions values('Q004','EM002','The Hands on session adequate enough to grasp the understanding of the topic.');
insert into Questions values('Q005','EM002','The reference materials suggested for each module are adequate.');
insert into Questions values('Q006','EM003','Knowledge and skills presented in this training are applicatible at your work');
insert into Questions values('Q007','EM003','This training increases my proficiency level');
insert into Questions values('Q008','EM004','The physical environment e.g. classroom space, air-conditioning was conducive to learning.');
insert into Questions values('Q009','EM004','The software/hardware environment provided was sufficient for the purpose of the training.');
insert into Questions values('Q010','EM005','This training will improve your job performance.');
insert into Questions values('Q011','EM005','This training align with the business priorities and goals.');
insert into Questions values('Q012','TM001','Participants were receptive and had attitude towards learning.');
insert into Questions values('Q013','TM001','All participats gained the knowledge and the practical skills after this training.');

insert into Questions values('Q014','TM002','The course materials presentation, handson, etc. available for the session covers the entire objectives of the course.');
insert into Questions values('Q015','TM002','Complexity of the course is adequate for the particpate level.');
insert into Questions values('Q016','TM002','Case study and practical demos helpful in understanding of the topic');
insert into Questions values('Q017','TM003','The physical environment e.g. classroom space, air-conditioning was conducive to learning.');
insert into Questions values('Q018','TM003','The software/hardware environment provided was adequate for the purpose of the training.');

insert into Associate_Info values('A001','Miss.','GAYATHRI NARAYANAN','Gurgaon','Java','Bachelor of Technology','Gayathri.Narayanan@hp.com','tne1@123');
insert into Associate_Info values('A002','Mrs.','RADHIKA MOHAN','Kerala','Java','Bachelor of Engineering In Information Technology','Radhika.Mohan@cognizant.com','tne2@123');
insert into Associate_Info values('A003','Mr.','KISHORE SRINIVAS','Chennai','Java','Bachelor of Engineering In Computers','Kishore.Srinivas@ibm.com','tne3@123');
insert into Associate_Info values('A004','Mr.','ANAND RANGANATHAN','Mumbai','DotNet','Master of Computer Applications','Anand.Ranganathan@finolex.com','tne4@123');
insert into Associate_Info values('A005','Miss.','LEELA MENON','Kerala','Mainframe','Bachelor of Engineering In Information Technology','Leela.Menon@microsoft.com','tne5@123');
insert into Associate_Info values('A006','Mrs.','ARTI KRISHNAN','Pune','Testing','Master of Computer Applications','Arti.Krishnan@cognizant.com','tne6@123');
insert into Associate_Info values('A007','Mr.','PRABHAKAR SHUNMUGHAM','Mumbai','Java','Bachelor of Technology','Prabhakar.Shunmugham@honda.com','tne7@123');

insert into Trainer_Info values ('F001','Mr.','PANKAJ GHOSH','Pune','Java','Bachelor of Technology',12,'Pankaj.Ghosh@alliance.com','fac1@123');
insert into Trainer_Info values('F002','Mr.','SANJAY RADHAKRISHNAN','Bangalore','DotNet','Bachelor of Technology',12,'Sanjay.Radhakrishnan@alliance.com','fac2@123');
insert into Trainer_Info values('F003','Mr.','VIJAY MATHUR','Chennai','Mainframe','Bachelor of Technology',10,'Vijay.Mathur@alliance.com','fac3@123');

```

insert into Trainer_Info values('F004','Mrs.','NANDINI NAIR','Kolkata','Java','Master of
Computer Applications',9,'Nandini.Nair@alliance.com','fac4@123');
insert into Trainer_Info values('F005','Miss.','ANITHA
PAREKH','Hyderabad','Testing','Master of Computer
Applications',6,'Anitha.Parekh@alliance.com','fac5@123');
insert into Trainer_Info values('F006','Mr.','MANOJ AGRAWAL'
,'Mumbai','Mainframe','Bachelor of
Technology',9,'Manoj.Agrawal@alliance.com','fac6@123');
insert into Trainer_Info values ('F007','Ms.','MEENA
KULKARNI','Coimbatore','Testing','Bachelor of
Technology',5,'Meena.Kulkarni@alliance.com','fac7@123');
insert into Trainer_Info values('F009','Mr.','SAGAR MENON' ,'Mumbai','Java','Master of
Science In Information Technology',12,'Sagar.Menon@alliance.com','fac8@123');

```

```

insert into Module_Info values('O10SQL','Oracle 10g SQL',16);
insert into Module_Info values('O10PLSQL','Oracle 10g PL/ SQL',16);
insert into Module_Info values('J2SE','Core Java SE 1.6',288);
insert into Module_Info values('J2EE','Advanced Java EE 1.6',80);
insert into Module_Info values('JAVAFX','JavaFX 2.1',80);
insert into Module_Info values('DOTNET4',' .Net Framework 4.0',50);
insert into Module_Info values('SQL2008','MS SQL Server 2008',120);
insert into Module_Info values('MSBI08','MS BI Studio 2008',158);
insert into Module_Info values('SHRPNT','MS Share Point',80);
insert into Module_Info values('ANDRD4','Android 4.0',200);
insert into Module_Info values('EM001','Instructor',0);
insert into Module_Info values('EM002','Course Material',0);
insert into Module_Info values('EM003','Learning Effectiveness',0);
insert into Module_Info values('EM004','Environment',0);
insert into Module_Info values('EM005','Job Impact',0);
insert into Module_Info values('TM001','Attendees',0);
insert into Module_Info values('TM002','Course Material',0);
insert into Module_Info values('TM003','Environment',0);

```

```

insert into Associate_Status
values('A001','O10SQL','B001','F001','2000-12-15','2000-12-25');
insert into Associate_Status
values('A002','O10SQL','B001','F001','2000-12-15','2000-12-25');
insert into Associate_Status
values('A003','O10SQL','B001','F001','2000-12-15','2000-12-25');

```

```

insert into Associate_Status
values('A001','O10PLSQL','B002','F002','2001-2-1','2001-2-12');
insert into Associate_Status
values('A002','O10PLSQL','B002','F002','2001-2-1','2001-2-12');
insert into Associate_Status
values('A003','O10PLSQL','B002','F002','2001-2-1','2001-2-12');
insert into Associate_Status values('A001','J2SE','B003','F003','2002-8-20','2002-10-25');
insert into Associate_Status values('A002','J2SE','B003','F003','2002-8-20','2002-10-25');
insert into Associate_Status values('A001','J2EE','B004','F004','2005-12-1','2005-12-25');
insert into Associate_Status values('A002','J2EE','B004','F004','2005-12-1','2005-12-25');
insert into Associate_Status values('A003','J2EE','B004','F004','2005-12-1','2005-12-25');
insert into Associate_Status values('A004','J2EE','B004','F004','2005-12-1','2005-12-25');
insert into Associate_Status
values('A005','JAVAFX','B005','F006','2005-12-4','2005-12-20');
insert into Associate_Status
values('A006','JAVAFX','B005','F006','2005-12-4','2005-12-20');
insert into Associate_Status values('A006','SQL2008','B006','F007','2007-6-21','2007-6-28');
insert into Associate_Status values('A007','SQL2008','B006','F007','2007-6-21','2007-6-28');
insert into Associate_Status values('A002','MSBI08','B007','F006','2009-6-26','2009-6-29');
insert into Associate_Status values('A003','MSBI08','B007','F006','2009-6-26','2009-6-29');
insert into Associate_Status values('A004','MSBI08','B007','F006','2009-6-26','2009-6-29');
insert into Associate_Status values('A002','ANDRD4','B008','F005','2010-6-5','2010-6-28');
insert into Associate_Status values('A005','ANDRD4','B008','F005','2010-6-5','2010-6-28');
insert into Associate_Status values('A003','ANDRD4','B009','F005','2011-8-1','2011-8-20');
insert into Associate_Status values('A006','ANDRD4','B009','F005','2011-8-1','2011-8-20');

```

--Exercise 3

```

UPDATE Trainer_info
SET Trainer_password = 'fac4@123'
where Trainer_id = 'F004';

```

--Exercise 4

```

DELETE from Associate_Status
where Associate_Id = 'A003' AND start_date = 'B004' AND Module_Id = 'J2EE';

```

--Exercise 5

```
select * from (  
SELECT * FROM TRAINER_INFO ORDER BY trainer_experience DESC  
) WHERE ROWNUM<=5;
```

--Exercise 6

```
SET TRANSACTION READ WRITE ;  
INSERT INTO IOGIN_DETAILS VALUES('U001' , 'Admin1@123');  
INSERT INTO IOGIN_DETAILS VALUES('U002' , 'Admin2@123');  
commit;  
SET TRANSACTION READ WRITE ;  
INSERT INTO IOGIN_DETAILS VALUES('U001' , 'Admin1@123');  
SAVEPOINT MY_SAVEPOINT  
INSERT INTO IOGIN_DETAILS VALUES('U002' , 'Admin2@123');  
ROLLBACK TO SAVEPOINT MY_SAVEPOINT;
```

```
SELECT * from login_details;
```

-- Exercise7

--Exercise 8

```
drop table login_details;
```

--Exercise9

```
CREATE TABLE suppliers(  
supplier_id varchar(20) NOT NULL,  
supplier_name varchar2(50) NOT NULL,  
Adress varchar2(50),  
city varchar2(50),  
state varchar2(25),  
zp_code varchar2(10)  
);
```

```
CREATE TABLE COURSE_FEES(  
COURSE_CODE VARCHAR2(10) NOT NULL,  
BASE_FEES NUMBER(10),  
SPECIAL_FEES NUMBER(10),  
DISCOUNT NUMBER(10),
```

```
CONSTRAINT COURSE_FEES PRIMARY KEY
```



```
(  
COURSE_CODE  
)
```

```
);
```

```
create table Course_Fees_History(  
Course_Code varchar2(10) PRIMARY KEY REFERENCES course_fees(COURSE_CODE) ,  
base_fees number(10) ,  
Special_fees number(10) ,  
Created_by varchar2(10),  
Updated_by varchar2(10)  
  
);
```

```
INSERT INTO COURSE_FEES_HISTORY VALUES('1',120,123,'Ram','Ramesh');  
INSERT INTO COURSE_FEES_HISTORY VALUES('2',150,110,'Bala','Ram');  
INSERT INTO COURSE_FEES_HISTORY VALUES('3',160,170,'Bala','Vinu');  
INSERT INTO COURSE_FEES_HISTORY VALUES('4',170,235,'Ram','Ram');  
INSERT INTO COURSE_FEES_HISTORY VALUES('5',190,100,'Vinod','Vinod');
```

```
INSERT INTO COURSE_FEES VALUES('1',180,100,10);  
INSERT INTO COURSE_FEES VALUES('2',150,110,10);  
INSERT INTO COURSE_FEES VALUES('3',160,170,5);  
INSERT INTO COURSE_FEES VALUES('4',150,100,10);  
INSERT INTO COURSE_FEES VALUES('5',190,100,40);
```

```
SELECT COURSE_CODE FROM COURSE_FEES  
UNION  
SELECT COURSE_CODE FROM COURSE_FEES_HISTORY
```

```
MINUS
```

```
SELECT COURSE_CODE FROM COURSE_FEES  
INTERSECT  
SELECT COURSE_CODE FROM COURSE_FEES_HISTORY;
```

--exercise 11

```
SELECT COURSE_CODE,base_fees,special_fees FROM COURSE_FEES  
UNION  
SELECT COURSE_CODE,base_fees,special_fees FROM COURSE_FEES_HISTORY  
  
MINUS
```

```
SELECT COURSE_CODE,base_fees,special_fees FROM COURSE_FEES  
INTERSECT  
SELECT COURSE_CODE,base_fees,special_fees FROM COURSE_FEES_HISTORY;
```

--Exercise 12

```
CREATE TABLE student_info(  
student_id varchar(10),  
first_name varchar(20),  
last_name varchar(25),  
address varchar(150),  
PRIMARY KEY(student_id)  
ENABLE  
);  
insert into student_info values('1','Sumeet','Karbhari','Bidar');  
insert into student_info values('2','Devashish','kankanwar','pandharpur');  
insert into student_info values('3','vaibhav','ingle','Pune');  
insert into student_info values ('4','gurunath','deshmukh','nashik');
```

```
CREATE TABLE course_info (  
course_code varchar2(10),  
course_name varchar2(10) NOT NULL,  
course_description varchar2(25),  
course_start_date DATE,  
course_duration number(10),  
no_of_participants number(10),  
course_type varchar2(5),  
PRIMARY KEY(course_code)  
ENABLE
```

);

```
INSERT INTO COURSE_FEES VALUES('7',NULL,120,0);
INSERT INTO COURSE_FEES VALUES('8',NULL,100,0);
INSERT INTO COURSE_FEES VALUES('9',300,120,0);
INSERT INTO COURSE_FEES VALUES('10',175,120,0);
SELECT MIN(BASE_FEES) ,MAX(BASE_FEES) FROM COURSE_FEES;
```

--EXERCISE 13

```
ALTER table course_fees
add infra_fees number(5,3);
UPDATE COURSE_FEES SET INFRA_FEES='45.751' WHERE COURSE_CODE='1';
UPDATE COURSE_FEES SET INFRA_FEES='43.453' WHERE COURSE_CODE='2';
UPDATE COURSE_FEES SET INFRA_FEES='47.897' WHERE COURSE_CODE='3';
UPDATE COURSE_FEES SET INFRA_FEES='51.558' WHERE COURSE_CODE='4';
UPDATE COURSE_FEES SET INFRA_FEES='46.007' WHERE COURSE_CODE='5';
UPDATE COURSE_FEES SET INFRA_FEES='33.453' WHERE COURSE_CODE='6';
UPDATE COURSE_FEES SET INFRA_FEES='57.897' WHERE COURSE_CODE='7';
UPDATE COURSE_FEES SET INFRA_FEES='15.558' WHERE COURSE_CODE='8';
UPDATE COURSE_FEES SET INFRA_FEES='61.007' WHERE COURSE_CODE='9';
```

```
SELECT AVG(infra_fees) from course_fees;
```

--Exwercise 14

```
INSERT INTO COURSE_FEES
(INFRA_FEES)
ALTER TABLE COURSE_FEES ADD INFRA_FEES NUMBER(5,3);
```

```
SELECT course_name, datediff(day,sysdate ,start_date) from course_info;
```

```
insert into course_info
values('1','PHY','Physics',to_date('18-01-2022','DD-MM-YYYY'),6,40,'sci');
select course_name,FLOOR(sysdate-course_start_date) AS DateDiff from course_info
where course_code = '1';
```

--Exercise 15

```
select course_name || ' ' || course_code as "<Course Name><Course Code>"  
,course_name from course_info;
```

--Exercise 16

```
select avg(nvl(base_fees,0)) from course_fees;
```

--Exercise 17

```
INSERT into course_info  
VALUES('2','micro','classroom',to_date('18-01-2022','DD-MM-YYYY'),'6','6','CLR');  
INSERT into course_info  
VALUES('3','E-learning','E-learning',to_date('18-01-2022','DD-MM-YYYY'),'6','6','EL');  
INSERT into course_info VALUES('4','STS','offline  
Reading',to_date('02-10-2020','DD-MM-YYYY'),'6','6','OF');  
INSERT into course_info VALUES('167','STS4004','offline  
Reading',to_date('02-10-2020','DD-MM-YYYY'),'10','600','spl');
```

```
SELECT course_type, course_description from course_info  
where course_code >1;
```

--Exercise 18

```
select course_start_date,SUM(no_of_participants)  
from course_info  
GROUP by course_start_date;
```

--Exercise 19

```
select course_start_date,SUM(no_of_participants)  
from course_info  
where course_type = 'CLR'  
GROUP by course_start_date;
```

--Exercise 20

```
select course_start_date,SUM(no_of_participants)
from course_info
where course_type = 'CLR'
GROUP by course_start_date
having SUM(no_of_participants) >10;
```

--Exercise 21

```
SELECT course_name from course_info
ORDER BY course_duration;
```

--Exercise 22

```
select * from course_fees;
select * from course_info;
```

```
create table student_courses (
  student_id varchar(10),
  course_code varchar2(10),
  foreign key (student_id) references student_info(student_id),
  foreign key (course_code) references course_info(course_code)
);
```

```
insert into student_courses values('1' , '167');
insert into student_courses values('2' , '167');
insert into student_courses values('3' , '1');
insert into student_courses values('4' , '2');
```

```
select * from student_courses;
```

```
select student_info.student_id, student_info.first_name,
  student_info.last_name,student_courses.course_code from student_info
full outer join
  student_courses
ON student_info.student_id = student_courses.student_id
where course_code = '167';
```

```
SELECT S.STUDENT_ID,S.FIRST_Name,S.LAST_NAME,C.COURSE_CODE FROM
STUDENT_INFO S INNER JOIN
STUDENT_COURSES C ON (S.STUDENT_ID = C.STUDENT_ID) INNER JOIN
COURSE_INFO I ON (C.COURSE_CODE = I.COURSE_CODE) WHERE C.COURSE_CODE
= 167;
```

--Exercise 23

```
select * from course_fees;
select * from course_info;
```

```
select course_fees.course_code,course_fees.discount,course_info.course_description
from course_fees
FULL OUTER JOIN course_info
on course_fees.course_code = course_info.course_code
ORDER BY course_code;
```

--Exercise 24

```
insert into student_info values('5','sanket','mahadik','mahad');
```

```
SELECT s.first_name,c.course_code from student_info s left join student_courses c
on s.student_id=c.student_id;
```

```
SELECT s.first_name,c.course_code from student_courses c right join student_info s
on s.student_id=c.student_id;
```

--Exercise 25

```
insert into course_info values('5','JAVA','language
study',to_date('18-01-2022','DD-MM-YYYY'),6,40,'J');
insert into course_info values('6','C','basic
language',to_date('18-01-2022','DD-MM-YYYY'),6,40,'C');
INSERT INTO COURSE_FEES VALUES('5',NULL,'380','0','65.80');
INSERT INTO COURSE_FEES VALUES('6',NULL,'400','0','49.65');
```

```
select * from student_info;
```

```

SELECT C.COURSE_CODE,TEMP.FEES,S.STUDENT_ID FROM student_courses S INNER
JOIN
COURSE_INFO C ON (s.course_code = c.course_code) INNER JOIN
(
SELECT COURSE_CODE, BASE_FEES AS "FEES" FROM COURSE_FEES WHERE
BASE_FEES<1500
)TEMP ON C.COURSE_CODE = TEMP.COURSE_CODE;

```

--Exercise 26

```

SELECT C.COURSE_CODE,TEMP.FEES,S.STUDENT_ID,s1.first_name||' '||s1.last_name as
"NAME" FROM student_info s1 inner join student_courses S on
(s1.student_id=S.student_id) INNER JOIN
COURSE_INFO C ON (s.course_code = c.course_code) INNER JOIN
(
SELECT COURSE_CODE, BASE_FEES AS "FEES" FROM COURSE_FEES WHERE
BASE_FEES<1500
)TEMP ON C.COURSE_CODE = TEMP.COURSE_CODE ;

```