EMPLOYEE ID:2211575 DATE:14-08-2022

Exercise.NO:1

CREATE TABLE Trainer_Info(

Trainer_Id VARCHAR(20) PRIMARY KEY UNIQUE NOT NULL,

Salutation VARCHAR(7),

Trainer_Name VARCHAR(30),

Trainer Location VARCHAR(30),

Trainer_Track VARCHAR(15),

Trainer_Qualification VARCHAR(100),

Trainer_Experience INTEGER,

Trainer Email VARCHAR(100) UNIQUE,

Trainer Password VARCHAR(20));

CREATE TABLE Batch_Info(

Batch_Id VARCHAR(20) PRIMARY KEY UNIQUE NOT NULL,

Batch_Owner VARCHAR(30),

Batch_BU_Name VARCHAR(30));

CREATE TABLE Module_Info(

Module_Id VARCHAR(20) PRIMARY KEY UNIQUE NOT NULL,

Module_Name VARCHAR(40),

Module_Duration INTEGER);

```
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CREATE TABLE Associate Info(
Associate Id VARCHAR(20) PRIMARY KEY UNIQUE NOT NULL,
Salutation VARCHAR(7),
Associate_Name VARCHAR(30),
Associate Location VARCHAR(30),
Associate track VARCHAR(15),
Associate_Qualification VARCHAR(200),
Associate_Email VARCHAR(100) UNIQUE,
Associate Password VARCHAR(20));
CREATE TABLE Questions(
Question_Id VARCHAR(20) PRIMARY KEY UNIQUE NOT NULL,
Module Id VARCHAR(20),
Question Text VARCHAR(900),
FOREIGN KEY (Module Id) REFERENCES Module info(Module Id));
CREATE TABLE Associate Status(
Associate_Id VARCHAR(20),
Module_Id VARCHAR(20),
Batch Id VARCHAR(20),
Trainer Id VARCHAR(20),
Start Date VARCHAR(20),
End_Date VARCHAR(20),
FOREIGN KEY (Associate_Id) REFERENCES Associate_Info(Associate_Id),
```

```
EMPLOYEE ID:2211575
                                                        DATE:14-08-2022
FOREIGN KEY (Module Id) REFERENCES Module Info(Module Id),
FOREIGN KEY (Batch Id) REFERENCES Batch Info(Batch Id),
FOREIGN KEY (Trainer Id) REFERENCES Trainer Info(Trainer Id));
CREATE TABLE Trainer Feedback(
Trainer Id VARCHAR(20),
Question_Id VARCHAR(20),
Batch_Id VARCHAR(20),
Module Id VARCHAR(20),
Trainer Rating INTEGER,
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));
CREATE TABLE Associate Feedback(
Associate Id VARCHAR(20),
Question Id VARCHAR(20),
Module Id VARCHAR(20),
Associate Rating INTEGER,
FOREIGN KEY (Associate Id) REFERENCES Associate Info(Associate Id),
FOREIGN KEY (Question Id) REFERENCES Questions(Question Id),
FOREIGN KEY (Module Id) REFERENCES Module Info(Module Id));
```

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DATE:14-08-2022

CREATE TABLE Login_Details(

User_Id VARCHAR(20) UNIQUE PRIMARY KEY NOT NULL,

User_Password VARCHAR(20) NOT NULL);

Exercise.NO:2

INSERT INTO Trainer_Info(Trainer_Id, Salutation, Trainer_Name, Trainer_Location, Trainer_Track, Trainer_Qualification, Trainer_Experience, Trainer_Email, Trainer_Password)

VALUES ('F001', 'Mr.', 'PANKAJ GHOSH', 'Pune', 'Java', 'Bachelor of Technology', 12 , 'Pankaj.Ghosh@alliance.com', 'fac1@123'),

('F002','Mr.','SANJAY RADHAKRISHNAN','Bangalore','DotNet','Bachelor of Technology',12,'Sanjay.Radhakrishnan@alliance.com','fac2@123'),

('F003','Mr.','VIJAY MATHUR','Chennai','Mainframe','Bachelor of Technology',10,'Vijay.Mathur@alliance.com','fac3@123'),

('F004','Mrs.','NANDINI NAIR','Kolkata','Java','Master of Computer Applications',9,'Nandini.Nair@alliance.com','fac4@123'),

('F005','Miss.','ANITHA PAREKH','Hyderabad','Testing','Master of Computer Applications',6,'Anitha.Parekh@alliance.com','fac5@123'),

('F006','Mr.','MANOJ AGRAWAL','Mumbai','Mainframe','Bachelor of Technology',9,'Manoj.Agrawal@alliance.com','fac6@123'),

('F007','Ms.','MEENA KULKARNI','Coimbatore','Testing','Bachelor of Technology',5,'Meena.Kulkarni@alliance.com','fac7@123'),

('F009','Mr.','SAGAR MENON','Mumbai','Java','Master of Science In Information Technology',12,'Sagar.Menon@alliance.com','fac8@123');

```
EMPLOYEE ID:2211575
                                                           DATE:14-08-2022
INSERT INTO Batch Info(Batch Id, Batch Owner, Batch BU Name)
VALUES('B001','MRS.SWATI ROY','MSP'),
('B002','MRS.ARURNA K','HEALTHCARE'),
('B003','MR.RAJESH KRISHNAN','LIFE SCIENCES'),
('B004','MR.SACHIN SHETTY','BFS'),
('B005','MR.RAMESH PATEL','COMMUNICATIONS'),
('B006', 'MRS.SUSAN CHERIAN', 'RETAIL & HOSPITALITY'),
('B007', 'MRS.SAMPADA JAIN', 'MSP'),
('B008', 'MRS.KAVITA REGE', 'BPO'),
('B009','MR.RAVI SEJPAL','MSP');
INSERT INTO Module Info(Module Id, Module Name, Module Duration)
VALUES ('O10SQL','Oracle 10g SQL',16),
('O10PLSQL','Oracle 10g PL/ SQL',16),
('J2SE', 'Core Java SE 1.6', 288),
('J2EE','Advanced Java EE 1.6',80),
('JAVAFX','JavaFX 2.1',80),
('DOTNT4','.Net Framework 4.0',50),
('SQL2008','MS SQI Server 2008',120),
('MSBI08','MS BI Studio 2008',158),
('SHRPNT', 'MS Share Point', 80),
('ANDRD4','Android 4.0',200),
('EM001','Instructor',0),
```

```
EMPLOYEE ID:2211575

('EM002','Course Material',0),

('EM003','Learning Effectiveness',0),

('EM004','Environment',0),

('EM005','Job Impact',0),

('TM001','Attendees',0),

('TM002','Course Material',0),

('TM003','Environment',0);
```

INSERT INTO Associate_Info(Associate_Id, Salutation, Associate_Name, Associate_Location, Associate_Track, Associate_Qualification, Associate_Email, Associate_Password)

VALUES ('A001','Miss.','GAYATHRI NARAYANAN','Gurgaon','Java','Bachelor of Technology','Gayathri.Narayanan@hp.com','tne1@123'),

('A002','Mrs.','RADHIKA MOHAN','Kerala','Java','Bachelor of Engineering In Information Technology','Radhika.Mohan@cognizant.com','tne2@123'),

('A003','Mr.','KISHORE SRINIVAS','Chennai','Java','Bachelor of Engineering In Computers','Kishore.Srinivas@ibm.com','tne3@123'),

('A004','Mr.','ANAND RANGANATHAN','Mumbai','DotNet','Master of Computer Applications','Anand.Ranganathan@finolex.com','tne4@123'),

('A005','Miss.','LEELA MENON','Kerala','Mainframe','Bachelor of Engineering In Information Technology','Leela.Menon@microsoft.com','tne5@123'),

('A006','Mrs.','ARTI KRISHNAN','Pune','Testing','Master of Computer Applications','Arti.Krishnan@cognizant.com','tne6@123'),

('A007','Mr.','PRABHAKAR SHUNMUGHAM','Mumbai','Java','Bachelor of Technology','Prabhakar.Shunmugham@honda.com','tne7@123');

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EMPLOYEE ID:2211575

INSERT INTO Questions(Question_Id,Module_Id,Question_Text)

VALUES

('Q001','EM001','Instructor knowledgeable and able to handle all your queries'),

('Q002','EM001','All the topics in a particular course handled by the trainer without any gaps or slippages'),

('Q003','EM002','The course materials presentation, handson, etc. refered during the training are relevant and useful.'),

('Q004','EM002','The Hands on session adequate enough to grasp the understanding of the topic.'),

('Q005','EM002','The reference materials suggested for each module are adequate.'),

('Q006', 'EM003', 'Knowledge and skills presented in this training are applicatible at your work'),

('Q007', 'EM003', 'This training increases my proficiency level'),

('Q008','EM004','The physical environment e.g. classroom space, air-conditioning was conducive to learning.'),

('Q009','EM004','The software/hardware environment provided was sufficient for the purpose of the training.'),

('Q010', 'EM005', 'This training will improve your job performance.'),

('Q011','EM005','This training align with the business priorities and goals.'),

('Q012','TM001','Participants were receptive and had attitude towards learning.'),

('Q013','TM001','All participats gained the knowledge and the practical skills after this training.'),

('Q014','TM002','The course materials presentation, handson, etc. available for the session covers the entire objectives of the course.'),

('Q015','TM002','Complexity of the course is adequate for the participate level.'),

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('Q016','TM002','Case study and practical demos helpful in understanding of the topic'),

('Q017','TM003','The physical environment e.g. classroom space, air-conditioning was conducive to learning.'),

('Q018','TM003','The software/hardware environment provided was adequate for the purpose of the training.');

INSERT INTO

Associate_Status(Associate_Id,Module_Id,Batch_Id,Trainer_Id,Start_Date,End_Date)

```
VALUES('A001','O10SQL','B001','F001','2000-12-15','2000-12-25'),
('A002','O10SQL','B001','F001','2000-12-15','2000-12-25'),
('A003','O10SQL','B001','F001','2000-12-15','2000-12-25'),
('A001','O10PLSQL','B002','F002','2001-2-1','2001-2-12'),
('A002','O10PLSQL','B002','F002','2001-2-1','2001-2-12'),
('A003','O10PLSQL','B002','F002','2001-2-1','2001-2-12'),
('A001','J2SE','B003','F003','2002-8-20','2002-10-25'),
('A002','J2SE','B003','F003','2002-8-20','2002-10-25'),
('A001','J2EE','B004','F004','2005-12-1','2005-12-25'),
('A002','J2EE','B004','F004','2005-12-1','2005-12-25'),
('A003','J2EE','B004','F004','2005-12-1','2005-12-25'),
('A004','J2EE','B004','F004','2005-12-1','2005-12-25'),
('A005','JAVAFX','B005','F006','2005-12-4','2005-12-20'),
('A006','JAVAFX','B005','F006','2005-12-4','2005-12-20'),
('A006','SQL2008','B006','F007','2007-6-21','2007-6-28'),
```

('A007','SQL2008','B006','F007','2007-6-21','2007-6-28'),

```
EMPLOYEE ID:2211575
                                                            DATE:14-08-2022
('A002','MSBI08','B007','F006','2009-6-26','2009-6-29'),
('A003','MSBI08','B007','F006','2009-6-26','2009-6-29'),
('A004','MSBI08','B007','F006','2009-6-26','2009-6-29'),
('A002','ANDRD4','B008','F005','2010-6-5','2010-6-28'),
('A005','ANDRD4','B008','F005','2010-6-5','2010-6-28'),
('A003','ANDRD4','B009','F005','2011-8-1','2011-8-20'),
('A006','ANDRD4','B009','F005','2011-8-1','2011-8-20');
Exercise.NO:3
SELECT *
FROM Trainer Info;
UPDATE Trainer Info
SET Trainer Password = 'nn4@123'
WHERE Trainer Id = 'F004';
Exercise.NO:4
SELECT *
FROM Associate_Status;
```

DELETE FROM Associate Status

WHERE Associate Id = 'A003' AND Module Id = 'J2EE';

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```
Exercise.NO:5
```

```
SELECT * FROM Trainer_info ORDER BY Trainer_experience DESC LIMIT 5;
```

```
Exercise.NO:6

SELECT *

FROM Login_Details;

START TRANSACTION;

INSERT INTO Login_Details(User_Id,User_Password)

VALUES('U001','Admin1@123'),

('U002','Admin2@123');

ROLLBACK;

SELECT *

FROM Login_Details;
```

Exercise.NO:7

```
CREATE USER 'ignesh'@'localhost' IDENTIFIED BY 'password1';

GRANT CREATE ON hands_on TO 'ignesh'@'localhost';

GRANT SELECT ON hands_on.Login_Details TO 'ignesh'@'localhost';

SELECT *

FROM Login_Details;

START TRANSACTION;

INSERT INTO Login_Details(User_Id,User_Password)

VALUES('U001','Admin1@123'),

('U002','Admin2@123');
```

```
EMPLOYEE ID:2211575
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ROLLBACK;
SELECT *
FROM Login_Details;
REVOKE CREATE ON hands_on FROM 'ignesh'@'localhost';
REVOKE SELECT ON hands on.Login Details FROM 'ignesh'@'localhost';
Exercise.NO:8
DROP TABLE Login_Details;
Exercise.NO:9
CREATE TABLE Suppliers(
Supplier_Id INTEGER NOT NULL,
Supplier_Name VARCHAR(50) NOT NULL,
Address VARCHAR(50),
City VARCHAR(50),
State VARCHAR(50),
Zip Code VARCHAR(10));
Exercise.NO:10
CREATE TABLE Course Fees(
Course Code INTEGER UNIQUE PRIMARY KEY NOT NULL,
Base Fees INTEGER,
Special_fees INTEGER,
Discount INTEGER);
```

```
EMPLOYEE ID:2211575
                                                          DATE:14-08-2022
CREATE TABLE Course Fees History(
Course Code INTEGER UNIQUE PRIMARY KEY NOT NULL,
Base_Fees INTEGER,
Special_fees INTEGER,
Created By VARCHAR(20),
Updated By VARCHAR(20));
INSERT INTO Course_Fees(Course_Code,Base_Fees,Special_fees,Discount)
VALUES(1,180,100,10),
(2,150,110,10),
(3,160,170,5),
(4,150,100,10),
(6,190,100,40);
INSERT INTO
Course Fees History(Course Code, Base Fees, Special fees, Created By, Updated
By)
VALUES(1,120,123,'Ram','Ramesh'),
(2,150,110,'Bala','Ram'),
(3,160,170,'Bala','Vinu'),
(4,170,235,'Ram','Ram'),
(6,190,100,'Vinod','Vinod');
```

```
EMPLOYEE ID:2211575
                                                       DATE:14-08-2022
SELECT Course Code, Base Fees, Special fees
FROM course fees
UNION
SELECT Course_Code,Base_Fees,Special_fees
FROM Course Fees History;
Exercise.NO:11
SELECT COUNT(*)
FROM Course Fees;
SELECT COUNT(DISTINCT(Course Code))
FROM Course Fees;
SELECT COUNT(DISTINCT(Base_Fees))
FROM Course Fees;
SELECT COUNT(DISTINCT(Special Fees))
FROM Course Fees;
SELECT COUNT(*)
FROM Course Fees History;
SELECT COUNT(DISTINCT(Course_Code))
FROM Course Fees History;
SELECT COUNT(DISTINCT(Base Fees))
FROM Course_Fees_History;
SELECT COUNT(DISTINCT(Special_Fees))
FROM Course_Fees_History;
```

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EMPLOYEE ID:2211575

Exercise.NO:12

```
CREATE TABLE Course_info(
Course_Code VARCHAR(10) PRIMARY KEY,
Course_Name VARCHAR(20) NOT NULL,
Course Description VARCHAR(25),
Course Start date Date,
Course_Duration INT,
No_of_Participants INT,
Course type CHAR(3));
CREATE TABLE Student Info(
Student_Id VARCHAR(10) PRIMARY KEY,
First_Name VARCHAR(20),
Last_NAME VARCHAR(25),
Address VARCHAR(150));
CREATE TABLE Course info(
Course_Code VARCHAR(10) PRIMARY KEY,
Course_Name VARCHAR(20) NOT NULL,
Course Description VARCHAR(25),
Course Start date Date,
Course Duration INT,
No_of_Participants INT,
```

Course_type CHAR(3));

```
EMPLOYEE ID:2211575
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CREATE TABLE Student Info(
Student_Id VARCHAR(10) PRIMARY KEY,
First_Name VARCHAR(20),
Last_NAME VARCHAR(25),
Address VARCHAR(150));
select * from course_fees;
INSERT INTO course fees(Course code, Base fees, Special fees, Discount)
VALUES(11, NULL, 150, 50),
(12, NULL, 200, 100),
(13,300,350,120),
(14,175,150,60);
SELECT MAX(Base_fees) FROM course_fees;
SELECT MIN(Base fees) FROM course fees; INSERT INTO
course_fees(Course_code,Base_fees,Special_fees,Discount)
VALUES(11, NULL, 150, 50),
(12, NULL, 200, 100),
(13,300,350,120),
(14,175,150,60);
SELECT MAX(Base fees) FROM course fees;
SELECT MIN(Base fees) FROM course fees;
```

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EMPLOYEE ID:2211575

```
Exercise.NO:13 & 14
```

ALTER TABLE Course_Fees

ADD COLUMN Infra_Fees DECIMAL(5,3) NOT NULL

AFTER Special_Fees;

```
UPDATE Course Fees SET Infra Fees = 45.751 WHERE Course Code = 1;
```

UPDATE Course_Fees SET Infra_Fees = 43.542 WHERE Course_Code = 2;

UPDATE Course_Fees SET Infra_Fees = 42.453 WHERE Course_Code = 3;

UPDATE Course Fees SET Infra Fees = 41.456 WHERE Course Code = 4;

UPDATE Course Fees SET Infra Fees = 47.564 WHERE Course Code = 5;

UPDATE Course Fees SET Infra Fees = 41.678 WHERE Course Code = 6;

UPDATE Course_Fees SET Infra_Fees = 48.432 WHERE Course_Code = 7;

UPDATE Course Fees SET Infra Fees = 40.258 WHERE Course Code = 8;

UPDATE Course Fees SET Infra Fees = 45.712 WHERE Course Code = 9;

SELECT AVG(Infra fees) FROM course fees;

Exercise.NO:15

SELECT CONCAT('<',Course_Name,'><',Course_code,'>')

FROM Course Info;

Exercise.NO:16

SELECT AVG(IFNULL(Base_Fees,0)) FROM Course_Fees;

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Exercise.NO:17

```
select * from course_info;

ALTER TABLE Course_info ADD message VARCHAR(30);

INSERT INTO course_info(Course_code,Course_Name,Course_Type,message)

VALUES('ST111','xx','CLR','Class Room'),

('ST112','YY','EL','ELearning'),

('ST113','ZZ','OF','Offline Reading');

select course_type,message from course_info
```

Exercise.NO:18

where Course type in ('CLR', 'EL', 'OF');

select Course_Start_date, sum(No_of_Participants)as No_of_Participants from course_info group by Course_Start_date;

Exercise.NO:19

select course_start_date, sum(No_of_Participants)as No_of_Participants from course_info where Course_type='CLR' group by course_start_date;

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Exercise.NO:20

select course_start_date, sum(No_of_Participants)as No_of_Participants from course_info where Course_type='CLR' group by course_start_date having sum(No_of_Participants)>10;

Exercise.NO:21

select Course_Name from course_info order by Course_Duration;

Exercise.NO:22

SELECT student_info.student_id,student_info.first_name,student_info.last_name, course_info.course_code FROM student_info INNER JOIN course_info ON student_info.course_code WHERE student_info.course_code='167';

Exercise.NO:23

SELECT course_fees.discount, course_info.course_description FROM course_fees INNER JOIN course_info ON course_info.course_code=course_fees.course_code;

Exercise.NO:24

INSERT INTO student_info VALUES ('11','st09','varun','india');

SELECT student_info.first_name,course_info.course_code FROM student_info LEFT JOIN

 $course_info\ ON\ student_info.course_code = course_info.course_code;$

EMPLOYEE ID:2211575 DATE:14-08-2022

SELECT student_info.first_name, course_info.course_code FROM course_info RIGHT JOIN

student_info ON student_info.course_code=course_info.course_code;

Exercise.NO:25

SELECT * FROM course fees;

INSERT INTO course_info VALUES ('ST11','I','ML','2021-01-01','50','1','CLR','Class Room'),('ST12','M','AI','2020-02-11',30,1,'EL','ELearning');

INSERT INTO course_fees VALUES ('ST11','1020','100','10','10'),('ST12','900','300','50','15');

INSERT INTO student info VALUES (2,'ST11','VARUN','RAJ','UP');

INSERT INTO student info VALUES (3,'ST12','RAJ','JU','MP');

SELECT DISTINCT student_info.student_id FROM student_info INNER JOIN course fees

ON student_info.course_code=course_fees.course_code WHERE ((base_feest+special_feestinfra_fees)*(1-discount/100))<1500;

Exercise.NO:26

SELECT DISTINCT student_info.student_id,student_info.first_name FROM student info

INNER JOIN course_fees ON student_info.course_code=course_fees.course_code WHERE

((base_feest+special_feestinfra_fees)*(1-discount/100))<1500;