Problem statements based on the tables :

Problem Statement:

Modify the table Associate\_Status to include following two columns:

Column Name: Batch\_Id

Details: Batch Id from batch\_Info

Data Types: Character

Size: 20

ALTER TABLE batch\_info MODIFY Batch\_Id CHARACTER(20)

Column Name: Trainer\_Id

Details: Trainer Id from trainer\_Info

Data Types: Character

Size: 20

ALTER TABLE trainer\_info MODIFY Trainer\_Id CHARACTER(20)

Modify two columns data types of the table Associate\_Status as follow

Start\_Date

Desired Type: Date

End\_Date

Desired Type: Date

Deliverables Expected:

New Columns in batch\_Info & trainer\_Info & changed column data types

ALTER TABLE associate\_status MODIFY Start\_Date Date, modify End\_Date Date

**Exercise 2**

Problem Statement:

Insert below details into table:

**Trainer\_Info**

Trainer\_Id,Salutation,Trainer\_Name,Trainer\_Location,Trainer\_Track,Trainer\_Qualification,Trainer\_Experiance,Trainer\_Email,Trainer\_Password

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

INSERT INTO trainer\_info (Trainer\_Id,Salutation,Trainer\_Name,Trainer\_Location,Trainer\_Track,Trainer\_Qualification,Trainer\_Experiance,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');

**Batch\_Info**

Batch\_Id,Batch\_Owner,Batch\_BU\_Name

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 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');

**Module\_Info**

Module\_Id,Module\_Name,Module\_Duration

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 SQl Server 2008,120

MSBI08,MS BI Studio 2008,158

SHRPNT,MS Share Point ,80

ANDRD4,Android 4.0,200

EM001,Instructor,0

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 module\_info ( Module\_Id,Module\_Name,Module\_Duration)

VALUES

('J2SE','Core Java SE 1.6',288),

('J2EE','Advanced Java EE 1.6',80),

('JAVA FX','JavaFX 2.1',80),

('DOTNT4','.Net Framework 4.0' ,50),

('SQL2008','MS SQl Server 2008',120),

('MSBI08','MS BI Studio 2008',158),

('SHRPNT','MS Share Point' ,80),

('ANDRD4','Android 4.0',200),

('EM001','Instructor',0),

('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);

**Associate\_Info**

Associate\_Id,Salutation,Associate\_Name,Associate\_Location,Associate\_Track,Associate\_Qualification,Associate\_Email,Associate\_Password

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

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','Mrs.','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');

**Questions**

Question\_Id,Module\_Id,Question\_Text

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 particpate level.

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 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.'),**

**('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 presentation, handson, etc. available for the session covers the entire objectives of the course.'),**

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

**('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.');**

**Associate\_Status**

Associate\_Id,Module\_Id,Batch\_Id,Trainer\_Id,Start\_Date,End\_Date

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

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

**INSERT INTO**

**`associate\_status` (`Associate\_Id`, `Module\_Id`, `Batch\_Id`, `Trainer\_Id`, `Start\_Date`, `End\_Date`)**

**VALUES**

**('A001','O10SQL','B001','F001',DATE('2000-12-15'),DATE('2000-12-25')),**

**('A001','O10SQL','B001','F001',DATE('2000-12-15'),DATE('2000-12-25')),**

**('A002','O10SQL','B001','F001',DATE('2000-12-15'),DATE('2000-12-25')),**

**('A003','O10SQL','B001','F001',DATE('2000-12-15'),DATE('2000-12-25')),**

**('A001','O10PLSQL','B002','F002',DATE('2001-2-1'),DATE('2001-2-12')),**

**('A002','O10PLSQL','B002','F002',DATE('2001-2-1'),DATE('2001-2-12')),**

**('A003','O10PLSQL','B002','F002',DATE('2001-2-1'),DATE('2001-2-12')),**

**('A001','J2SE','B003','F003',DATE('2002-8-20'),DATE('2002-10-25')),**

**('A002','J2SE','B003','F003',DATE('2002-8-20'),DATE('2002-10-25')),**

**('A001','J2EE','B004','F004',DATE('2005-12-1'),DATE('2005-12-25')),**

**('A002','J2EE','B004','F004',DATE('2005-12-1'),DATE('2005-12-25')),**

**('A003','J2EE','B004','F004',DATE('2005-12-1'),DATE('2005-12-25')),**

**('A004','J2EE','B004','F004',DATE('2005-12-1'),DATE('2005-12-25')),**

**('A005','JAVAFX','B005','F006',DATE('2005-12-4'),DATE('2005-12-20')),**

**('A006','JAVAFX','B005','F006',DATE('2005-12-4'),DATE('2005-12-20')),**

**('A006','SQL2008','B006','F007',DATE('2007-6-21'),DATE('2007-6-28')),**

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

**('A002','MSBI08','B007','F006',DATE('2009-6-26,'),DATE('2009-6-29')),**

**('A003','MSBI08','B007','F006',DATE('2009-6-26'),DATE('2009-6-29')),**

**('A004','MSBI08','B007','F006',DATE('2009-6-26'),DATE('2009-6-29')),**

**('A002','ANDRD4','B008','F005',DATE('2010-6-5'),DATE('2010-6-28')),**

**('A005','ANDRD4','B008','F005',DATE('2010-6-5'),DATE('2010-6-28')),**

**('A003','ANDRD4','B009','F005',DATE('2011-8-1'),DATE('2011-8-20')),**

**('A006','ANDRD4','B009','F005',DATE('2011-8-1'),DATE('2011-8-20'));**

**Exercise 2.1**

Problem Statement:

Change the password of trainer F004 from fac4@123 to nn4@123

Deliverables Expected:

Updated password of trainer F004

UPDATE `trainer\_info` SET `Trainer\_Password`='[nn4@123]' WHERE Trainer\_Id = F004;

Problem Statement:

Remove following record form associate\_status table

A003,J2EE, B004,F004,2005-12-1,2005-12-25

Deliverables Expected:

Removed record from associate status.

DELETE FROM associate\_status WHERE Associate\_Id='A003' && Module\_Id='J2EE' && Batch\_Id='B004' && Trainer\_Id='F004';

Problem Statement:

Fetch first five trainers who have maximum years of experience & display there details.

Deliverables Expected:

Top five experience trainers

SELECT Trainer\_Id,Module\_Id,Batch\_Id,MAX(End\_Date-Start\_Date)

FROM associate\_status

ORDER BY Associate\_Id;

Problem Statement:

Begin transaction & insert below to records into Login\_Details

'U001' Admin1@123

'U002' Admin2@123

**INSERT INTO `login\_details`(`User\_Id`, `User\_Password`) VALUES**

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

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

Perform rollback operation & verify whether any records are inserted in table or not.

2 rows inserted. (Query took 0.0100 seconds.) [ROLLBACK occurred.]

Problem Statement:

Create a dummy user in database. Grant create & select table privilege to him/her.

create user "<devil>" identified by "<royal>";

grant create table to devil;

grant select table to devil;

Repeat the above all queries using login credentials of newly created user.

Revoke the privilege assigned to this newly created user.

Problem Statement:

Remove table Login\_Details from database.

revoke create table from devil;

revoke select table from devil;