SQL HANDS-ON DOCUMENT FINAL

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QUESTION 1

```
create database handsonassignment;
use handsonassignment;
#Table 1
create table Trainer_info
(
Trainer_Id varchar(20),
Salutation char (7),
Trainer_Name char(30),
Trainer_Location char(30),
Trainer_Track char(15),
Trainer_Qualification char(100),
Trainer_Email varchar(100),
Trainer_Password char(20),
Trainer_Experience int (11)
);

#Table 2
create table Batch_Info
(
Batch_Id varchar(20),
Batch_Owner char(30),
Batch_BU_Name char(30)
);

#Table 3
create table Module_Info
(
Module_Id varchar(20),
Module_Name char(40),
Module_Duration int(11)
);

#Table 4
create table Associate_Info
(
Associate_Id varchar(20),
Salutation char(7),
Associate_Name char(30),
```

```sql
Associate_Location char(30),
Associate_Track char(15),
Associate_Qualification char(200),
Associate_Email varchar(100),
Associate_Password varchar(20)
);

#Table 5
create table Questions
(
Question_Id char(20),
Module_Id char(20),
Question_Text varchar(900)
);

#Table 6
create table Associate_Status
(
Associate_Id char(20),
Module_Id char(20),
Start_Date char(20),
End_Date char (20),
AFeedbackGiven char(20),
TFeedbackGiven char(20)
);

#Table 7
create table Trainer_Feedback
(
Trainer_Id varchar(20),
Question_Id varchar(20),
Batch_Id varchar(20),
Module_Id varchar(20),
Trainer_Rating int(11)
);

#Table 8
create table Associate_Feedback
(
Associate_Id varchar(20),
Question_Id varchar(20),
Module_Id varchar(20),
Associate_Rating int(11)
);
```

```
#Table 9
create table Login_Details
(
User_Id varchar(20),
User_Password varchar(20)
);
```

QUESTION 2

```
use handsonassignment;

#table 1
insert into Trainer_Info
(Trainer_Id,Salutation,Trainer_Name,Trainer_Location,Trainer_Track,Trainer_Qualification,Trainer_Exp
erience,Trainer_Email,Trainer_Password)
values('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');

#table 2
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');
```

```
#table 3
Insert into Module_Info 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 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);

#TABLE 4
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');

#TABLE 5
insert into questions(Question_Id,Module_Id,Question_Text)
```

```sql
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 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.');

#table 6
Alter table associate_status
add column Batch_Id varchar(50);
Alter table associate_status
add column Trainer_Id varchar(50);

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'),
('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');

QUESTION 3

```
use handsonassignment;
SET SQL_SAFE_UPDATES = 0;
update trainer_info
set Trainer_Password='nn4@123'
where Trainer_Password='fac4@123';

select * from trainer_info where Trainer_id='F004';
```

QUESTION 4

```
use handsonassignment;
select * from associate_status;
delete from associate_status
where Associate_Id='A003' and 'Module_Id'='J2EE' and Batch_Id='B004'
and Trainer_Id='F004' and Start_Date='2005-12-1' and End_Date='2005-12-25';
```

QUESTION 5

```
use handsonassignment;
select * from trainer_info
order by (Trainer_Experience) desc
limit 5;
```

QUESTION 6

```
use handsonassignment;
select * from login_details;

start transaction;
insert into login_details values('U001','Admin1@123'),('U002','Admin2@123');
rollback;
select * from login_details;
```

QUESTION 7

```
use handsonassignment;
create user khyati IDENTIFIED BY 'abcd';
GRANT CREATE ON handsonassignment.login_details to khyati with grant option;
GRANT SELECT ON handsonassignment.login_details to khyati with grant option;
select * from login_details;
start transaction;
insert into login_details values('U001','Admin1@123'),('U002','Admin2@123');
rollback;
select * from login_details;
revoke create on handsonassignment.login_details from khyati;
revoke select on handsonassignment.login_details from khyati;
```

QUESTION 8

```
use handsonassignment;
drop table login_details;
```

QUESTION 9

```
use handsonassignment;
create table suppliers
```

```
(
supplier_id int(10) not null,
supplier_name varchar(50) not null,
address varchar(50),
city varchar(50),
state varchar(25),
zip_code varchar(10));
```

QUESTION 10

```
use handsonassignment;
create table course_fees_HISTORY
(
Course_Code varchar(20),
Base_Fees integer(20),
Special_Fees integer(20),
Created_By varchar(20),
Updated_By varchar(20)
);

create table course_fees
(
Course_Code varchar(20),
Base_Fees integer(20),
Special_Fees integer(20),
Discount integer(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');

select distinct Course_Code from course_fees
union
select distinct Course_Code from course_fees_HISTORY;

QUESTION 11

---

use handsonassignment;
select distinct(course_code) from course_fees;
select distinct(Base_Fees) from course_fees;
select distinct(Special_Fees) from course_fees;

select distinct(Course_Code) from course_fees_history;
select distinct(Base_Fees) from course_fees_history;
select distinct(Special_Fees) from course_fees_history;

QUESTION 12

---

use handsonassignment;
CREATE table Course_info
(
Course_code varchar(10) not null,
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),
primary key(course_code)
);

Create table Student_info
(
Student_id varchar(10) not null,
first_name varchar(20),
last_name varchar(25),
address varchar(150),
primary key(Student_id)
);

```
insert into course_fees(Course_Code,Special_Fees,Discount)
values
('6',500,75),('9',800,34);

insert into course_fees(Course_Code,Base_Fees,Special_Fees,Discount)
values
('1',300,765,45),('3',175,234,34);

select * from course_fees;

select max(Base_Fees) from course_fees;
select min(Base_Fees) from course_fees;

select * from course_fees;
```

QUESTION 13 AND 14

```
use handsonassignment;
select * from course_fees;
alter table course_fees
add column infra_fees DECIMAL(5,3);

UPDATE course_fees
SET infra_fees=45.741
WHERE Course_Code='1';

UPDATE course_fees
SET infra_fees=34.785
WHERE Course_Code='2';

UPDATE course_fees
SET infra_fees=67.785
WHERE Course_Code='3';

UPDATE course_fees
SET infra_fees=29.785
WHERE Course_Code='4';

UPDATE course_fees
SET infra_fees=89.785
WHERE Course_Code='5';
```

```
UPDATE course_fees
SET infra_fees=25.785
WHERE Course_Code='6';

UPDATE course_fees
SET infra_fees=35.785
WHERE Course_Code='9';

select avg(infra_fees) from course_fees;

select * from course_fees;
select * from course_info;
 insert into course_info(Course_Code,Course_Name,Course_start_date)
 values
 ('1','biology','2022-06-15'),('2','CSE','2022-01-01');

select Course_name,datediff(CURDATE(),Course_start_date) AS NO_OF_DAYS from course_info;
```

QUESTION 15

```
use handsonassignment;
select CONCAT('<',course_name,course_code,'>') from course_info;
```

QUESTION 16

```
use handsonassignment;
select avg(IFNULL(base_fees,0)) from course_fees;
```

QUESTION 17

```
use handsonassignment;
select * from course_fees;
insert into course_info
values
('4','english','grammr and literature','2022-08-01','45','32','CLR'),
('5','HINDI','grammr and literature','2022-04-08','45','12','EL'),
('6','FRENCH','grammr and literature','2022-03-25','45','2','OF');
SELECT * FROM course_info;
```

```
SELECT course_type,
CASE
WHEN course_type='CLR' THEN 'CLASS ROOM'
WHEN course_type='EL' THEN 'ELEARNING'
WHEN course_type='OF' THEN 'offline READING'
END AS message
from course_info;
```

QUESTION 18

```
use handsonassignment;
select course_start_date,sum(no_of_participants) as no_of_participants
from course_info
group by course_start_date;
```

QUESTION 19

```
use handsonassignment;
select course_start_date,no_of_participants
from course_info
where course_type='CLR'
group by course_start_date;
```

QUESTION 20

```
use handsonassignment;
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;
```

QUESTION 21

```
use handsonassignment;
select * from course_info
```

order by course_duration asc;

QUESTION 22

use handsonassignment;
select * from student_info;
select * from course_info;
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=course_info.course_code
where course_info.course_code='167';

QUESTION 23

use handsonassignment;
select course_fees.Discount,course_info.Course_description from course_fees
inner join course_info
on course_fees.Course_Code=course_info.Course_code;

QUESTION 24

use handsonassignment;
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;

select student_info.first_name, course_info.Course_code
from course_info right join
student_info on course_info.course_code=student_info.Course_code;

QUESTION 25

use handsonassignment;
select * from course_info;

```
insert into course_info
values
('7','python','coding','2021-09-09','56','12','CLR'),
('8','C++','coding','2021-05-09','5','18','EL');

select * from course_fees;

insert into course_fees
values
('7','250','800','87','69.987'),
('8','450','963','54','30.987');

select * from student_info;

insert into student_info
values
('45','khyati','dahiya','delhi','7'),
('46','mridul','singh','punjab','8');


select distinct student_info.Student_id from student_info
inner join course_fees
on student_info.course_code=course_fees.course_code
where (base_fees+Special_Fees+infra_fees)*(1-Discount/100)<1500;
```

QUESTION 26

```
use handsonassignment;

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_fees+Special_Fees+infra_fees)*(1-Discount/100)<1500;
```