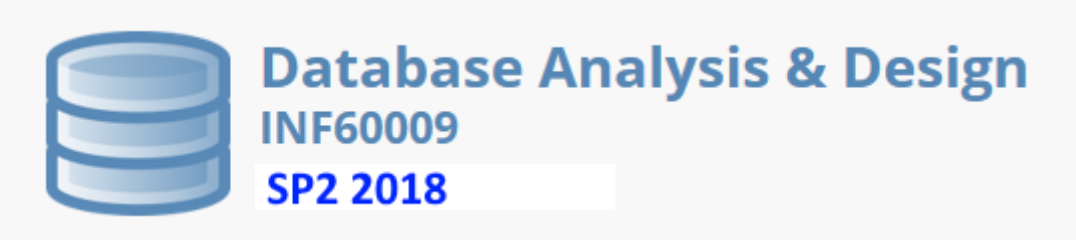


Task 8 – Credits

Student ID: 102227966

Student Name: THI KHANH HOA NGUYEN

Credit Task 1

Part a to c

Paste all DROP, CREATE & INSERT statements here.

```
DROP TABLE STUDENT;
CREATE TABLE STUDENT (
STUID       NUMBER  PRIMARY KEY
, FULLNAME  VARCHAR(30)
, GENDER    VARCHAR(1)
);
INSERT INTO STUDENT (STUID,FULLNAME,GENDER) VALUES (2719000,'Emma Jay','F');
INSERT INTO STUDENT (STUID,FULLNAME,GENDER) VALUES (9091431,'Dave Smith','M');
INSERT INTO STUDENT (STUID,FULLNAME,GENDER) VALUES (9198112,'Jane Jones','F');
INSERT INTO STUDENT (STUID,FULLNAME,GENDER) VALUES (8184398,'Mike Jacobs','M');

DROP TABLE STAFF;
CREATE TABLE STAFF (
STFID       NUMBER  PRIMARY KEY
, FULLNAME  VARCHAR(30)
, GENDER    VARCHAR(1)
);
INSERT INTO STAFF (STFID,FULLNAME,GENDER) VALUES (131,'Karen Lovell','F');
INSERT INTO STAFF (STFID,FULLNAME,GENDER) VALUES (232,'Denise Randle','F');
INSERT INTO STAFF (STFID,FULLNAME,GENDER) VALUES (455,'Sean Mellerick','F');
INSERT INTO STAFF (STFID,FULLNAME,GENDER) VALUES (217,'Haley Daniel','F');

DROP TABLE SEMINAR;
CREATE TABLE SEMINAR (
SEMID       NUMBER  PRIMARY KEY
, TITLE     VARCHAR(30)
, SDATE     DATE
);

INSERT INTO SEMINAR (SEMID,TITLE,SDATE) VALUES (401,'Database Security','13-JAN-2016');
INSERT INTO SEMINAR (SEMID,TITLE,SDATE) VALUES (402,'Agile Programming','14-JAN-2016');
INSERT INTO SEMINAR (SEMID,TITLE,SDATE) VALUES (406,'Business Inelligence','13-JAN-2016');
INSERT INTO SEMINAR (SEMID,TITLE,SDATE) VALUES (409,'Social Media Analytics','14-JAN-2016');

DROP TABLE STAFF_ALLOCATION;
CREATE TABLE STAFF_ALLOCATION (
STFID NUMBER ,
SEMID NUMBER,
PRIMARY KEY (STFID, SEMID),
FOREIGN KEY (STFID) REFERENCES  STAFF,
FOREIGN KEY (SEMID) REFERENCES SEMINAR
```

```
);

INSERT INTO STAFF_ALLOCATION (STFID, SEMID) VALUES (131,401);
INSERT INTO STAFF_ALLOCATION (STFID, SEMID) VALUES (455,401);
INSERT INTO STAFF_ALLOCATION (STFID, SEMID) VALUES (131,402);
INSERT INTO STAFF_ALLOCATION (STFID, SEMID) VALUES (217,402);
INSERT INTO STAFF_ALLOCATION (STFID, SEMID) VALUES (455,406);


DROP TABLE ATTENDANCE;
CREATE TABLE ATTENDENCE (
STUID NUMBER
, SEMID NUMBER
, SCORE NUMBER
, PRIMARY KEY (STUID, SEMID)
,FOREIGN KEY (STUID) REFERENCES  STUDENT
,FOREIGN KEY (SEMID) REFERENCES  SEMINAR
);

INSERT INTO ATTENDENCE (STUID, SEMID, SCORE) VALUES (9091431, 401, 8);
INSERT INTO ATTENDENCE (STUID, SEMID, SCORE) VALUES (9198112, 401, 5);
INSERT INTO ATTENDENCE (STUID, SEMID, SCORE) VALUES (8184398, 401, 7);
INSERT INTO ATTENDENCE (STUID, SEMID, SCORE) VALUES (9198112, 402, 6);
INSERT INTO ATTENDENCE (STUID, SEMID, SCORE) VALUES (9091431, 402, 7);
INSERT INTO ATTENDENCE (STUID, SEMID, SCORE) VALUES (9198112, 406, 4);
```

Ensure that you include statements to create and populate all FIVE tables

---

Part d1

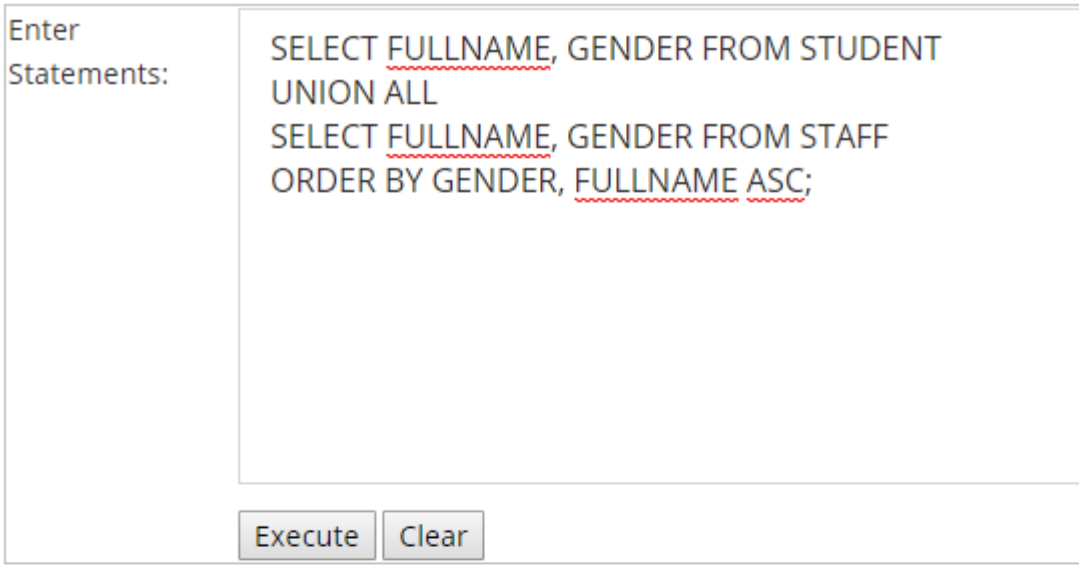
Paste the UNION statement and Result set here.

```
SELECT FULLNAME, GENDER FROM STUDENT

UNION ALL

SELECT FULLNAME, GENDER FROM STAFF

ORDER BY GENDER, FULLNAME ASC;
```



SELECT FULLNAME, GENDER FROM STUDENT UNION ALL SELECT FULLNAME, GENDER FROM STAFF ORDER BY GENDER, FULLNAME ASC

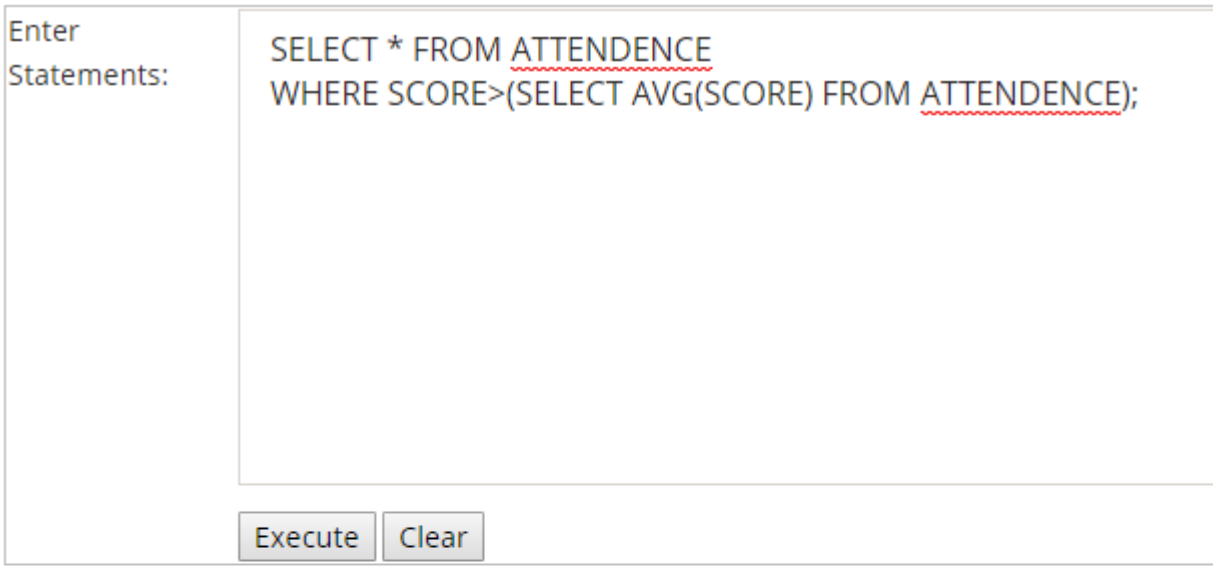
FULLNAME	GENDER
Denise Randle	F
Emma Jay	F
Haley Daniel	F
Jane Jones	F
Karen Lovell	F
Sean Mellerick	F
Dave Smith	M
Mike Jacobs	M

OK. 8 rows selected.

Part d2

Paste the SUBQUERY statement and Result set here.
SELECT * FROM ATTENDENCE

WHERE SCORE>(SELECT AVG(SCORE) FROM ATTENDENCE);



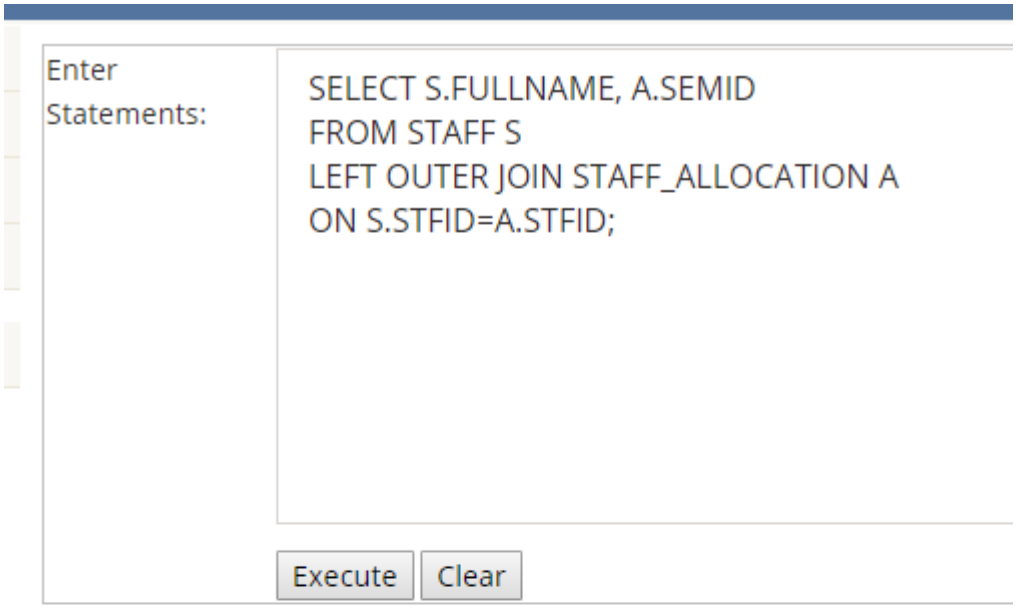
SELECT * FROM ATTENDENCE WHERE SCORE>(SELECT AVG(SCORE) FROM ATTENDENCE)

STUID	SEMID	SCORE
9091431	401	8
8184398	401	7
9091431	402	7

OK. 3 rows selected.

Part d3

Paste the LEFT OUTER JOIN statement and Result set here.



SELECT S.FULLNAME, A.SEMID FROM STAFF S LEFT OUTER JOIN STAFF_ALLOCATION A ON S.STFID=A.STFID

FULLNAME	SEMID
Karen Lovell	401
Karen Lovell	402
Haley Daniel	402
Denise Randle	
Sean Mellerick	401
Sean Mellerick	406

OK. 6 rows selected.

Part d4

Paste the RIGHT OUTER JOIN statement and Result set here.

Enter Statements:

```
SELECT U.FULLNAME, S.TITLE, E.SCORE
FROM ATTENDENCE E
RIGHT OUTER JOIN SEMINAR S
ON E.SEMID=S.SEMID
RIGHT OUTER JOIN STUDENT U
ON E.STUID=U.STUID;
```

Execute Clear

SELECT U.FULLNAME, S.TITLE, E.SCORE FROM ATTENDENCE E RIGHT OUTER JOIN SEMINAR S ON E.SEMID=S.SEMID RIGHT OUTER JOIN STUDENT U ON E.STUID=U.STUID

FULLNAME	TITLE	SCORE
Emma Jay		
Mike Jacobs	Database Security	7
Dave Smith	Agile Programming	7
Dave Smith	Database Security	8
Jane Jones	Database Security	5
Jane Jones	Agile Programming	6
Jane Jones	Business Inelligence	4

OK. 7 rows selected.