# **Task 8 – Credits**

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## **Credit Task 1**

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Part a to c
DROP TABLE STUDENT;
CREATE TABLE STUDENT (
STUID NUMBER PRIMARY KEY
, FULLNAME VARCHAR(30)
, GENDER VARCHAR(1)
);
DROP TABLE STAFF;
CREATE TABLE STAFF (
STFID NUMBER PRIMARY KEY
, FULLNAME VARCHAR(30)
, GENDER VARCHAR(1)
);
DROP TABLE SEMINAR;
CREATE TABLE SEMINAR (
SEMID NUMBER PRIMARY KEY
, TITLE VARCHAR(30)
, SDATE DATE
);
```

DROP TABLE STAFFALLOCATION;

```
CREATE TABLE STAFFALLOCATION (
STFID NUMBER
, SEMID NUMBER
, PRIMARY KEY (STFID, SEMID)
, FOREIGN KEY (SEMID) references SEMINAR
, FOREIGN KEY (STFID) references STAFF
);
DROP TABLE ATTENDANCE;
CREATE TABLE ATTENDANCE (
StuID NUMBER,
SemID NUMBER,
PRIMARY KEY (STUID, SEMID),
FOREIGN KEY (StuID) references STUDENT,
FOREIGN KEY (SemID) references SEMINAR,
Score INTEGER
);
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');
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');
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');

INSERT INTO STAFFALLOCATION (STFID, SEMID) VALUES (131, 401);

INSERT INTO STAFFALLOCATION (STFID, SEMID) VALUES (455, 401);

INSERT INTO STAFFALLOCATION (STFID, SEMID) VALUES (131, 402);

INSERT INTO STAFFALLOCATION (STFID, SEMID) VALUES (217, 402);

INSERT INTO STAFFALLOCATION (STFID, SEMID) VALUES (455, 406);

INSERT INTO ATTENDANCE (StuID, SemID, Score) VALUES (9091431, 401, 8);

INSERT INTO ATTENDANCE (StuID, SemID, Score) VALUES (9198112, 401, 5);

INSERT INTO ATTENDANCE (StuID, SemID, Score) VALUES (8184398, 401, 7);

INSERT INTO ATTENDANCE (StuID, SemID, Score) VALUES (9198112, 402, 6);

INSERT INTO ATTENDANCE (StuID, SemID, Score) VALUES (9091431, 402, 7);

INSERT INTO ATTENDANCE (StuID, SemID, Score) VALUES (9198112, 406, 4);

Paste the UNION statement and Result set here.

SELECT FullName, Gender FROM STUDENT

**UNION ALL** 

SELECT FullName, Gender FROM STAFF

ORDER BY 1, 2 ASC;

SELECT FullName, Gender FROM STUDENT UNION ALL SELECT FullName, Gender FROM STAFF ORDER BY 1, 2 ASC

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

OK. 8 rows selected.

Paste the SUBQUERY statement and Result set here.

## SELECT \* FROM ATTENDANCE

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

Enter Statements:	SELECT * FROM ATTENDANCE WHERE SCORE > (SELECT AVG(SCORE)FROM ATTENDANCE);
	Execute Clear

SELECT \* FROM
ATTENDANCE WHERE
SCORE > (SELECT
AVG(SCORE)FROM
ATTENDANCE)

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

OK. 3 rows selected.

Paste the LEFT OUTER JOIN statement and Result set here.

SELECT STAFF.FullName, STAFFALLOCATION.SEMID

FROM STAFF

LEFT JOIN STAFFALLOCATION ON STAFF.STFID = STAFFALLOCATION.STFID;

SELECT STAFF.FullName, STAFFALLOCATION.SEMID FROM STAFF LEFT JOIN STAFFALLOCATION ON STAFF.STFID =

## STAFFALLOCATION.STFID

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

OK. 6 rows selected.

Paste the RIGHT OUTER JOIN statement and Result set here.

SELECT STUDENT.FULLNAME, SEMINAR.TITLE, ATTENDANCE.SCORE

FROM ATTENDANCE

RIGHT OUTER JOIN STUDENT ON STUDENT.STUID = ATTENDANCE.STUID

LEFT JOIN SEMINAR ON ATTENDANCE.SEMID = SEMINAR.SEMID;

SELECT STUDENT.FULLNAME,
SEMINAR.TITLE, ATTENDANCE.SCORE
FROM ATTENDANCE RIGHT OUTER
JOIN STUDENT ON STUDENT.STUID =
ATTENDANCE.STUID LEFT OUTER JOIN
SEMINAR ON ATTENDANCE.SEMID =
SEMINAR.SEMID

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

OK. 7 rows selected.