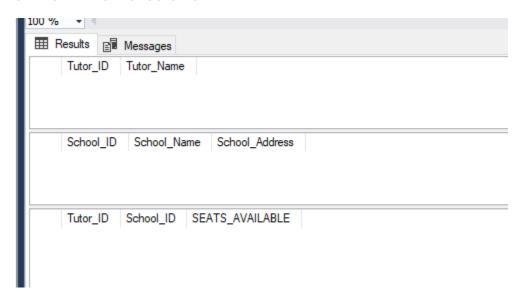
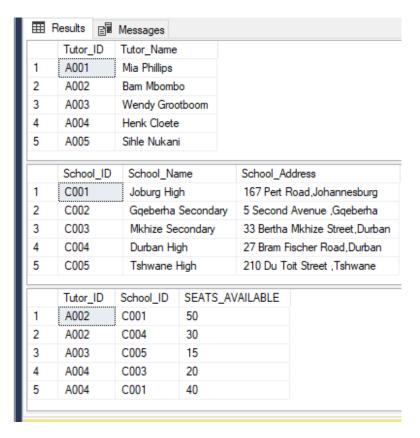
```
1.1
CREATE DATABASE TUTORIALSESSIONS;
USE TUTORIALSESSIONS;
--1.1
CREATE TABLE TUTOR (
Tutor_ID VARCHAR(5) primary key NOT NULL,
Tutor_Name VARCHAR(1000) NOT NULL,
);
CREATE TABLE SCHOOL (
School_ID VARCHAR(5) primary key NOT NULL,
School_Name VARCHAR(50)NOT NULL,
School_Address VARCHAR(150)NOT NULL,
);
CREATE TABLE SESSIONS(
Tutor_ID VARCHAR(5),
FOREIGN KEY (Tutor_ID) REFERENCES TUTOR(Tutor_ID),
School_ID VARCHAR(5),
FOREIGN KEY (School_ID) REFERENCES SCHOOL(School_ID),
SEATS_AVAILABLE smallint,
);
SELECT * FROM TUTOR
SELECT * FROM SCHOOL
```

SELECT * FROM SESSIONS



```
1.2
INSERT INTO TUTOR VALUES('A001','Mia Phillips'),
('A002','Bam Mbombo'),
('A003','Wendy Grootboom'),
('A004','Henk Cloete'),
('A005','Sihle Nukani');
INSERT into SCHOOL values ('C001', 'Joburg High', '167 Pert Road, Johannesburg'),
('C002', 'Gqeberha Secondary', '5 Second Avenue, Gqeberha'),
('C003','Mkhize Secondary','33 Bertha Mkhize Street, Durban'),
('C004','Durban High','27 Bram Fischer Road, Durban'),
('C005','Tshwane High','210 Du Toit Street ,Tshwane');
INSERT INTO SESSIONS VALUES('A002', 'C001', 50),
('A002','C004',30),
('A003','C005',15),
('A004','C003',20),
```

('A004','C001',40);



1.3

ALTER TABLE SESSIONS

ADD SEATS_BOOKED SMALLINT;

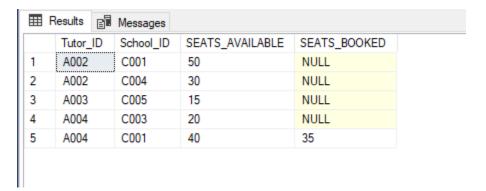
	Tutor_ID	School_ID	SEATS_AVAILABLE	SEATS_BOOKED
1	A002	C001	50	NULL
2	A002	C004	30	NULL
3	A003	C005	15	NULL
4	A004	C003	20	NULL
5	A004	C001	40	35

1.4

UPDATE SESSIONS

SET SEATS_BOOKED = 35

WHERE Tutor_ID ='A004' and School_ID='C001';

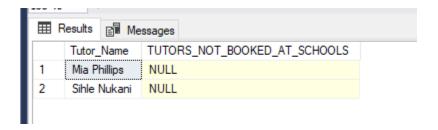


2.1

SELECT TUTOR.Tutor_Name,SESSIONS.SEATS_AVAILABLE AS TUTORS_NOT_BOOKED_AT_SCHOOLS

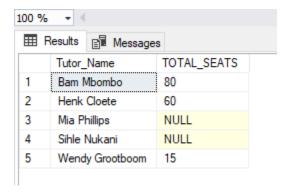
FROM TUTOR

LEFT JOIN SESSIONS ON TUTOR.Tutor_ID = SESSIONS.Tutor_ID
WHERE SESSIONS.SEATS_AVAILABLE IS NULL;



SELECT TUTOR.Tutor_Name, SUM(SESSIONS.SEATS_AVAILABLE) AS TOTAL_SEATS FROM TUTOR

LEFT JOIN SESSIONS ON TUTOR.Tutor_ID = SESSIONS.Tutor_ID GROUP BY TUTOR.Tutor_Name
ORDER BY Tutor_Name ASC;



2.3

SELECT TUTOR.Tutor_Name,SCHOOL.School_Name,MAX(SESSIONS.SEATS_AVAILABLE) AS SEATS_AVAILABLE

FROM TUTOR

JOIN SESSIONS ON TUTOR.Tutor_ID = SESSIONS.Tutor_ID

JOIN SCHOOL ON SCHOOL.School_ID = SESSIONS.School_ID

WHERE SESSIONS.Tutor_ID ='A004'

GROUP BY Tutor_Name, School_Name, SEATS_AVAILABLE

ORDER BY SESSIONS.SEATS_AVAILABLE DESC;

