UCS 2411-DATABASE LAB	AY: 2022-2023
M. Rohith 3122 21 5001 085	Date: 12.03.2023 Ex. No. 1
Assignment 1 -DDL Comm	aands
Aim:	
To learn the DDL Commands such as a) CREATE b) DROP c) ALTER	
To implement the above commands in boat reservation problem	1.

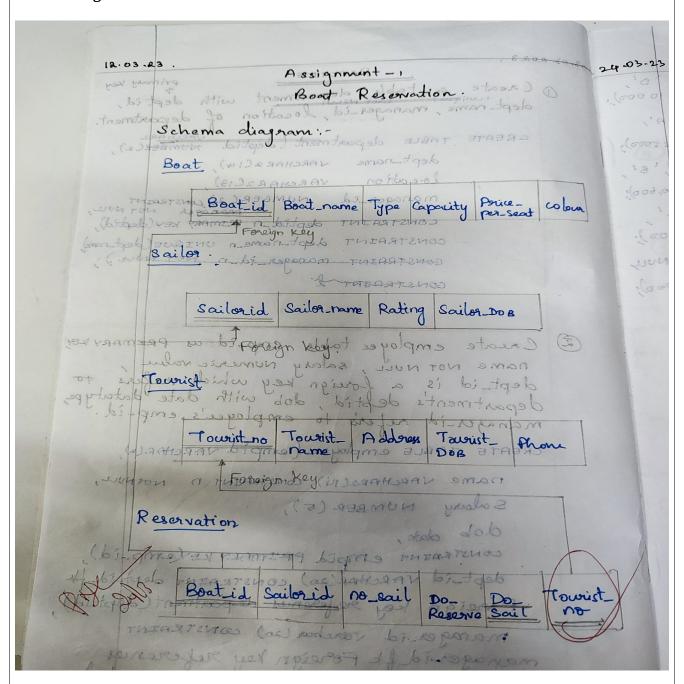
M. Rohith

Date: 12.03.2023
3122 21 5001 085

Ex. No. 1

AY: 2022-2023

#### **Schema Diagram:**



# **UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 **Script File:** SQL>@"Z:\Rohith\_085\Assignment-1\Creation.sql" SQL> REM Dropping tables SQL> SQL> DROP table Reservation; Table dropped. SQL> DROP TABLE Tourist; Table dropped. SQL> DROP TABLE Sailor; Table dropped. SQL> DROP TABLE Boat; Table dropped. SQL> SQL> SQL> SQL> SQL> REM Boat table creation SQL> SQL> CREATE TABLE Boat( 2 boat\_id VARCHAR(10) CONSTRAINT boat\_id\_pk PRIMARY KEY, 3 boat\_name VARCHAR(20), 4 type VARCHAR(20) CONSTRAINT type\_check CHECK(type in ('LUX','CAR','CRU')), 5 capacity NUMBER(4), 6 price\_per\_seat NUMBER(12), 7 colour VARCHAR(20) 8); Table created. SOL> SQL> SQL> SQL> SQL> REM Description values

```
UCS 2411-DATABASE LAB
                                                                             AY: 2022-2023
M. Rohith
                                                                           Date: 12.03.2023
3122 21 5001 085
                                                                                  Ex. No. 1
SQL>
SQL> DESCRIBE Boat;
Name
                                           Null? Type
BOAT ID
                                             NOT NULL VARCHAR2(10)
BOAT NAME
                                                     VARCHAR2(20)
TYPE
                                                VARCHAR2(20)
CAPACITY
                                                   NUMBER(4)
PRICE_PER_SEAT
                                                       NUMBER(12)
COLOUR
                                                  VARCHAR2(20)
SQL>
SQL>
SQL>
SQL> REM insertion of valid rows in Boat
SQL>
SQL> INSERT INTO Boat VALUES('B101', 'Greater Chennai', 'LUX', 100, 60000, 'White');
1 row created.
SQL> INSERT INTO Boat VALUES('B102', 'Fantastic four', 'CRU', 200, 150000, 'Green');
1 row created.
SQL> INSERT INTO Boat VALUES('B103', 'Avengers', 'CAR', 150, 60000, 'Red');
1 row created.
SQL> INSERT INTO Boat VALUES('B104', 'Bessy_Beach', 'LUX', 200, 450000, 'Gold');
1 row created.
SQL> INSERT INTO Boat VALUES('B105','Luck fellow','CAR',130,780000,'Black');
1 row created.
SQL>
SOL>
SQL> REM Violation of PRIMARY KEY
SOL>
SQL> INSERT INTO Boat VALUES('B101', 'Feast', 'LUX', 160, 60000, 'White');
INSERT INTO Boat VALUES('B101', 'Feast', 'LUX', 160, 60000, 'White')
```

```
UCS 2411-DATABASE LAB
                                                                           AY: 2022-2023
M. Rohith
                                                                         Date: 12.03.2023
3122 21 5001 085
                                                                                Ex. No. 1
ERROR at line 1:
ORA-00001: unique constraint (01085.BOAT_ID_PK) violated
SQL>
SQL> REM Violation of Check Constraint - Rating
SQL>
SQL> INSERT INTO Boat VALUES('B102', 'Fantastic', 'XYZ', 210, 30000, 'Red');
INSERT INTO Boat VALUES('B102', 'Fantastic', 'XYZ', 210, 30000, 'Red')
ERROR at line 1:
ORA-02290: check constraint (01085.TYPE_CHECK) violated
SQL>
SQL>
SQL>
SQL>
SQL> REM Sailor Table creation
SOL>
SQL> CREATE TABLE Sailor(
2 sailor_id VARCHAR(10) CONSTRAINT sailor_id PRIMARY KEY,
3 sailor name VARCHAR(20),
4 rating VARCHAR(1) CONSTRAINT rating check CHECK(rating IN ('A','B','C')),
5 sailor DOB DATE CONSTRAINT date check CHECK((2023-extract(year from
sailor_DOB)>25))
6);
Table created.
SQL>
SQL>
SQL>
SQL> REM Description of Sailor
SQL>
SQL> DESCRIBE Sailor;
Name
                                          Null? Type
SAILOR_ID
                                             NOT NULL VARCHAR2(10)
SAILOR_NAME
                                                     VARCHAR2(20)
RATING
                                                VARCHAR2(1)
```

# **UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 **DATE** SAILOR DOB SQL> SQL> SQL> SQL> REM inserting valid values into Sailor SQL> SQL> INSERT INTO Sailor VALUES('S001','Jackie Chan','A',TO\_DATE('1993-10-12','YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Sailor VALUES('S002', 'James Bond', 'A', TO DATE('1993-10-12', 'YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Sailor VALUES('S003','John Smith','B',TO\_DATE('1990-10-12','YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Sailor VALUES('S004','Leo','C',TO\_DATE('1991-10-12','YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Sailor VALUES('S005','Neil Arms','A',TO\_DATE('1995-10-12','YYYY-MM-DD')); 1 row created. SQL> SQL> SQL> REM violation of primary key SOL> SQL> INSERT INTO Sailor VALUES('S001','Jason','B',TO\_DATE('1990-11-5','YYYY-MM-DD')); INSERT INTO Sailor VALUES('S001', 'Jason', 'B', TO\_DATE('1990-11-5', 'YYYY-MM-DD')) ERROR at line 1: ORA-00001: unique constraint (01085.SAILOR\_ID) violated SQL>

```
UCS 2411-DATABASE LAB
                                                                           AY: 2022-2023
M. Rohith
                                                                          Date: 12.03.2023
3122 21 5001 085
                                                                                Ex. No. 1
SQL>
SQL>
SQL> REM violation of check constraint - DOB
SOL>
SQL> INSERT INTO Sailor VALUES('S001','Jill','B',TO_DATE('2012-11-5','YYYY-MM-DD'));
INSERT INTO Sailor VALUES('S001','Jill','B',TO_DATE('2012-11-5','YYYY-MM-DD'))
ERROR at line 1:
ORA-02290: check constraint (01085.DATE CHECK) violated
SQL>
SQL>
SQL>
SQL> REM Violation of CHECK constraint - Rating
SQL>
SQL> INSERT INTO Sailor VALUES('S002', 'Jane', 'E', TO_DATE('1993-10-12', 'YYYY-MM-DD'));
INSERT INTO Sailor VALUES('S002', 'Jane', 'E', TO_DATE('1993-10-12', 'YYYY-MM-DD'))
ERROR at line 1:
ORA-02290: check constraint (01085.RATING CHECK) violated
SQL>
SQL>
SOL>
SQL> REM Tourist table creation
SQL>
SQL> CREATE TABLE Tourist(
2 tourist_id VARCHAR(10) CONSTRAINT tourist_id_pk PRIMARY KEY,
3 tourist name VARCHAR(20),
4 address VARCHAR(20),
5 tourist_DOB DATE,
6 phone INT
7);
Table created.
SOL>
SQL>
SQL>
SQL>
SQL>
```

## **UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 SQL> REM description of Tourist table SQL> SQL> DESCRIBE Tourist; Null? Type Name NOT NULL VARCHAR2(10) TOURIST ID TOURIST\_NAME VARCHAR2(20) **ADDRESS** VARCHAR2(20) TOURIST\_DOB DATE **PHONE** NUMBER(38) SQL> SQL> SQL> SQL> REM Insertion of valid values into Tourist SQL> SQL> INSERT INTO Tourist VALUES('T001','David','1st Main RD',TO\_DATE('2000-10-12','YYYY-MM-DD'),1234567890); 1 row created. SQL> INSERT INTO Tourist VALUES('T002','Ashwin','3rd Main RD',TO\_DATE('2003-10-12', 'YYYY-MM-DD'), 1232367890); 1 row created. SQL> INSERT INTO Tourist VALUES("T003', 'Khwaja', '4th Main RD', TO\_DATE('2010-11-12', 'YYYY-MM-DD'), 1234567831); 1 row created. SQL> INSERT INTO Tourist VALUES('T004','Hello','5th Main RD',TO\_DATE('2011-02-09','YYYY-MM-DD'),1234567878); 1 row created. SQL> INSERT INTO Tourist VALUES('T005','Smith','6th Main RD',TO\_DATE('2015-02-10','YYYY-MM-DD'),1234555878);

1 row created.

SQL>

# **UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 DATE RESERVE DATE DATE\_SAIL NOT NULL DATE SOL> SQL> SOL> SQL> REM Insertion of Valid Rows SQL> SQL> INSERT INTO Reservation VALUES('B101','S001','T001',10,TO DATE('2000-10-12','YYYY-MM-DD'),TO\_DATE('2000-10-25','YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Reservation VALUES('B102','S002','T002',10,TO\_DATE('2011-10-12','YYYY-MM-DD'),TO\_DATE('2011-10-25','YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Reservation VALUES('B103','S003','T003',10,TO DATE('2012-05-11','YYYY-MM-DD'),TO\_DATE('2012-05-30','YYYY-MM-DD')); 1 row created. SQL> INSERT INTO Reservation VALUES('B104','S004','T004',10,TO\_DATE('2013-01-12','YYYY-MM-DD'),TO\_DATE('2013-01-25','YYYY-MM-DD')); 1 row created. SQL> SQL> SQL> REM Violation of primary key SQL> SOL> INSERT INTO Reservation Values('B101','S001','T002',10,TO DATE('2000-10-12','YYYY-MM-DD'),TO DATE('2000-10-25','YYYY-MM-DD')); INSERT INTO Reservation Values('B101','S001','T002',10,TO\_DATE('2000-10-12','YYYY-MM-DD'),TO\_DATE('2000-10-25','YYYY-MM-DD')) ERROR at line 1: ORA-00001: unique constraint (01085.RESERVATION CK) violated SQL> SQL>

M. Rohith

Date: 12.03.2023
3122 21 5001 085

Ex. No. 1

AY: 2022-2023

SQL> REM violation of Check constraint

SQL>

SQL> INSERT INTO Reservation VALUES('B105','S005','T005',10,TO\_DATE('2014-09-12','YYYY-MM-DD'),TO\_DATE('2014-09-15','YYYY-MM-DD'));

INSERT INTO Reservation VALUES('B105','S005','T005',10,TO\_DATE('2014-09-12','YYYY-MM-DD'),TO\_DATE('2014-09-15','YYYY-MM-DD'))

\*

ERROR at line 1:

ORA-02290: check constraint (01085.ADVANCE\_CHECK) violated

SQL>

SQL>

SQL> REM Violation of Foreign key constraint

SQL>

SQL> INSERT INTO Reservation Values('T101','B001','S002',11,TO\_DATE('2000-10-12','YYYY-MM-DD'),TO\_DATE('2000-10-25','YYYY-MM-DD'));

INSERT INTO Reservation Values('T101','B001','S002',11,TO\_DATE('2000-10-12','YYYY-MM-DD'),TO\_DATE('2000-10-25','YYYY-MM-DD'))

\*

ERROR at line 1:

ORA-02291: integrity constraint (01085.TOURIST\_ID\_FK) violated - parent key not found

SQL>

SQL>

SQL>

SQL>

SQL>

SQL> SELECT \*

2 FROM Boat:

BOAT_	ID BOAT_NAN	ME TYPE	CA	APACITY PRICE_PE	R_SEAT COLOUR
B101 B102 B103 B104 B105	Greater Chenna Fantastic four Avengers Bessy_Beach Luck fellow	i LUX CRU CAR LUX CAR	100 200 150 200 130	60000 White 150000 Green 60000 Red 450000 Gold 780000 Black	
SQL>					

SQL> SELECT \*

2 FROM Sailor;

M. Rohith Date: 12.03.2023 Ex. No. 1

AY: 2022-2023

3122 21 5001 085

### SAILOR\_ID SAILOR\_NAME R SAILOR\_DO

S001	Jackie Chan	A 12-OCT-93
S002	James Bond	A 12-OCT-93
S003	John Smith	B 12-OCT-90
S004	Leo	C 12-OCT-91
S005	Neil Arms	A 12-OCT-95

SQL>

SQL> SELECT \*

2 FROM Tourist;

### TOURIST\_ID TOURIST\_NAME ADDRESS TOURIST\_D PHONE

-----

T001	David	1st Main RD	12-OCT-00 1234567890
T002	Ashwin	3rd Main RD	12-OCT-03 1232367890
T003	Khwaja	4th Main RD	12-NOV-10 1234567831
T004	Hello	5th Main RD	09-FEB-11 1234567878
T005	Smith	6th Main RD	10-FEB-15 1234555878

SQL>

SQL> SELECT \*

2 FROM Reservation;

#### BOAT\_ID SAILOR\_ID TOURIST\_ID NUMBER\_PERSONS DATE\_RESE DATE\_SAIL

B101	S001	T001	10 12-OCT-00 25-OCT-00
B102	S002	T002	10 12-OCT-11 25-OCT-11
B103	S003	T003	10 11-MAY-12 30-MAY-12
B104	S004	T004	10 12-JAN-13 25-JAN-13

SQL>

SQL>

 $SQL> @"Z:\Rohith\_085\Assignment-1\Alter.sql"$ 

SQL> REM Alter Commands

SQL>

SQL>

SQL> REM 8. It is identified that the number of children have to be mentioned while booking the boat by the tourists.

SQL>

SQL> ALTER TABLE RESERVATION

2 ADD children\_count INT;

UCS 2411-DATABASE LAB	AY: 2022-2023
M. Rohith 3122 21 5001 085	Date: 12.03.2023 Ex. No. 1
Table altered.	
SQL> SQL> DESCRIBE Reservation;	
Name	Null? Type
BOAT_ID SAILOR_ID TOURIST_ID NUMBER_PERSONS DATE_RESERVE DATE_SAIL CHILDREN_COUNT	NOT NULL VARCHAR2(10) NOT NULL VARCHAR2(10) VARCHAR2(10) NUMBER(38) DATE NOT NULL DATE NUMBER(38)
SQL> SQL> SQL> SQL> SQL> SQL> REM 9. The width of a tourist name SQL> SQL> REM Inserting large name into Touri SQL> INSERT INTO Tourist VALUES('TO RD',TO_DATE('2000-10-12','YYYY-MM-I INSERT INTO Tourist VALUES('T001','ada 10-12','YYYY-MM-DD'),1234567890)  * ERROR at line 1:	st 01','adadadadadadadadadad','1st Main
	1085"."TOURIST"."TOURIST_NAME" (actual: 22,
SQL> SQL> REM Altering the constraint SQL> ALTER TABLE Tourist 2 MODIFY tourist_name VARCHAR(60) Table altered.	;
SQL> SQL> DESCRIBE Tourist; Name	Null? Type

**UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 TOURIST\_ID **NOT NULL VARCHAR2(10)** TOURIST\_NAME VARCHAR2(60) **ADDRESS** VARCHAR2(20) TOURIST DOB DATE **PHONE** NUMBER(38) SQL> SQL> REM Insertion of large name SQL> INSERT INTO Tourist VALUES('T010', 'adadadadadadadadadadadad', '1st Main RD',TO\_DATE('2000-10-12','YYYY-MM-DD'),1234567890); 1 row created. SQL> SQL> SQL> SOL> SQL> REM 10. Reservation can not be done without the reserve\_date. SOL> SQL> ALTER TABLE Reservation 2 MODIFY date\_reserve DATE NOT NULL; Table altered. SQL> SQL> DESCRIBE Reservation; Null? Type Name BOAT\_ID NOT NULL VARCHAR2(10) SAILOR\_ID NOT NULL VARCHAR2(10) TOURIST ID VARCHAR2(10) NUMBER PERSONS NUMBER(38) DATE\_RESERVE NOT NULL DATE DATE\_SAIL NOT NULL DATE CHILDREN\_COUNT NUMBER(38) SQL> SQL> REM Insertion of NULL value SQL> INSERT INTO Reservation VALUES('B101', 'S001', 'T001', NULL, TO\_DATE('2000-10-25','YYYY-MM-DD'),3);

## **UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 SQL> SQL> SQL> REM 12. The rating for sailor D has to be added. SOL> SQL> REM Constraint violation SQL> INSERT INTO Sailor VALUES('S007', 'Minsker', 'D', TO\_DATE('1993-10-12', 'YYYY-MM-DD')); INSERT INTO Sailor VALUES('S007', 'Minsker', 'D', TO\_DATE('1993-10-12', 'YYYY-MM-DD')) ERROR at line 1: ORA-02290: check constraint (01085.RATING CHECK) violated SQL> SQL> REM Alter Statement SQL> ALTER TABLE Sailor 2 DROP CONSTRAINT rating\_check; Table altered. SOL> SQL> ALTER TABLE Sailor 2 ADD (CONSTRAINT rating\_check CHECK(rating IN ('A','B','C','D'))); Table altered. SQL> SQL> DESCRIBE Sailor; Null? Type Name SAILOR\_ID NOT NULL VARCHAR2(10) SAILOR\_NAME VARCHAR2(20) **RATING** VARCHAR2(1) SAILOR\_DOB **DATE** SQL> SQL> REM Insertion of valid row after alter SQL> INSERT INTO Sailor VALUES('S007', 'Minsker', 'D', TO DATE('1993-10-12', 'YYYY-MM-DD')); 1 row created.

UCS 2411-DATABASE LAB	AY: 2022-2023
M. Rohith 3122 21 5001 085	Date: 12.03.2023 Ex. No. 1
SQL> SQL> SQL> SQL> SQL> SQL> SQL> SQL>	
5 rows deleted.	
SQL> DELETE FROM Boat;	
5 rows deleted.	
SQL> SQL> ALTER TABLE Boat 2 ADD CONSTRAINT colour_chk CHECK((colour IN ('CAR','CRU'));	IN ('yellow') AND type IN ('LUX')) OR type
Table altered.	
SQL> SQL> DESCRIBE Boat; Name Null?	Type 
BOAT_NAME	T NULL VARCHAR2(10) VARCHAR2(20) VARCHAR2(20) NUMBER(4) NUMBER(12) VARCHAR2(20)
SQL> SQL> REM: inserting row that will be accepted SQL> INSERT INTO Boat VALUES ('B006', 'Boat-6',	'LUX', 10, 599, 'yellow');
1 row created.	
SQL> INSERT INTO Boat VALUES ('B026', 'Boat-26	', 'CAR', 10, 599, 'green');

## **UCS 2411-DATABASE LAB** AY: 2022-2023 M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1 1 row created. SQL> SQL> REM: inserting row that will violate check constraint SQL> INSERT INTO Boat VALUES ('B007', 'Boat-7', 'LUX', 10, 1200, 'black'); INSERT INTO Boat VALUES ('B007', 'Boat-7', 'LUX', 10, 1200, 'black') ERROR at line 1: ORA-02290: check constraint (01085.COLOUR CHK) violated SQL> INSERT INTO Boat VALUES ('B007', 'Boat-7', 'LRT', 10, 1200, 'black'); INSERT INTO Boat VALUES ('B007', 'Boat-7', 'LRT', 10, 1200, 'black') ERROR at line 1: ORA-02290: check constraint (01085.COLOUR CHK) violated SQL> SQL> SOL> SQL> SOL> REM 14. Each boat should have different name. SQL> SQL> ALTER TABLE Boat 2 ADD CONSTRAINT name\_unique UNIQUE(boat\_name); Table altered. SQL> SQL> DESCRIBE Boat; Name Null? Type BOAT\_ID NOT NULL VARCHAR2(10) BOAT\_NAME VARCHAR2(20) VARCHAR2(20) **TYPE CAPACITY** NUMBER(4) PRICE PER SEAT NUMBER(12) **COLOUR** VARCHAR2(20) SQL> SQL> REM Constraint violation

M. Rohith Date: 12.03.2023 3122 21 5001 085 Ex. No. 1

AY: 2022-2023

SQL> REM Adding constraint to reflect on all tables

SQL>

SQL> ALTER TABLE Reservation

- 2 MODIFY boat id varchar2(10) CONSTRAINT boat id fk REFERENCES Boat(boat id)
- 3 ON DELETE CASCADE;

Table altered.

SOL>

SQL> ALTER TABLE Reservation

- 2 MODIFY sailor id varchar2(10) CONSTRAINT sailor id fk REFERENCES Sailor(sailor id)
- 3 ON DELETE CASCADE;

Table altered.

SQL>

SQL> DESCRIBE Reservation;

Null? Type

BOAT ID NOT NULL VARCHAR2(10) NOT NULL VARCHAR2(10) SAILOR ID TOURIST ID NUMBER PERSONS DATE RESERVE DATE SAIL NOT NULL DATE CHILDREN\_COUNT

SOL>

SQL> REM Inserting values into Reservation Table

SOL>

SQL> INSERT INTO Reservation values('B006','S001','T002',7,TO\_DATE('2023-03-11', 'YYYY-MM-DD'),TO\_DATE('2023-03-31', 'YYYY-MM-DD'),5);

VARCHAR2(10)

NOT NULL DATE

NUMBER(38)

NUMBER(38)

1 row created.

SQL> INSERT INTO Reservation values('B107','S002','T004',12,TO\_DATE('2023-03-05', 'YYYY-MM-DD'),TO\_DATE('2023-03-25', 'YYYY-MM-DD'),6);

1 row created.

SQL> INSERT INTO Reservation values('B108','S004','T001',9,TO\_DATE('2023-03-02', 'YYYY-MM-DD'),TO\_DATE('2023-03-30', 'YYYY-MM-DD'),7);

M. Rohith Date: 12.03.2023 Ex. No. 1

AY: 2022-2023

3122 21 5001 085

1 row created.

SQL> INSERT INTO Reservation values('B026', 'S003', 'T003', 25, TO\_DATE('2023-03-06', 'YYYY-MM-DD'),TO\_DATE('2023-03-28', 'YYYY-MM-DD'),8);

1 row created.

SQL>

SQL> REM Reservation table before cascade

SQL>

SQL> SELECT \*

2 FROM Reservation;

### BOAT\_ID SAILOR\_ID TOURIST\_ID NUMBER\_PERSONS DATE\_RESE DATE\_SAIL CHILDREN\_COUNT

T0027 11-MAR-23 31-MAR-23T00412 05-MAR-23 25-MAR-23T0019 02-MAR-23 30-MAR-23T00325 06-MAR-23 28-MAR-23 B006 S001 5 S002 B107 6 B108 S004 7 B026 S003 8

SQL>

SQL> REM Boat table before the cascade

SQL>

SQL> SELECT \*

2 FROM Boat;

BOAT_I	D BOAT_NA	ME	ТҮРЕ	C	APACITY PRICE	_PER_SEAT COLOUR
B108 B006 B026 B107	Greater Cbe Boat-6 Boat-26 Greater Tuty	LUX LUX CAR LUX		100 10 10 100	60000 yellow 599 yellow 599 green 60000 yellow	
SQL> SQL> REM Sailor table before the cascade SQL>						

SQL> SELECT \*

2 FROM Sailor;

SAILOR\_ID SAILOR\_NAME R SAILOR\_DO

```
UCS 2411-DATABASE LAB
                                                                        AY: 2022-2023
M. Rohith
                                                                      Date: 12.03.2023
3122 21 5001 085
                                                                             Ex. No. 1
S001
                     A 12-OCT-93
       Jackie Chan
S002
       James Bond
                      A 12-OCT-93
       John Smith
S003
                      B 12-OCT-90
                 C 12-OCT-91
S004
       Leo
       Neil Arms A 12-OCT-95
Minsker D 12-OCT-93
S005
S007
6 rows selected.
SQL>
SQL> REM : deleting values from Boats & Sailors table.
SQL>
SQL> DELETE Boat
2 WHERE boat_id = 'B107';
1 row deleted.
SQL>
SQL> DELETE FROM Sailor
2 WHERE sailor_id = 'S004';
1 row deleted.
SQL>
SQL> REM Reservation table after cascade
SQL>
SOL> SELECT *
2 FROM Reservation;
BOAT_ID SAILOR_ID TOURIST_ID NUMBER_PERSONS DATE_RESE DATE_SAIL
CHILDREN COUNT
               T002 7 11-MAR-23 31-MAR-23
T003 25 06-MAR-23 28-MAR-23
B006
       S001
                                                           5
B026
        S003
                                                            8
SQL>
SQL> REM Boat table after the cascade
SQL>
SQL> SELECT *
2 FROM Boat;
BOAT_ID BOAT_NAME TYPE CAPACITY PRICE_PER_SEAT COLOUR
```

M. Rohith

Date: 12.03.2023
3122 21 5001 085

Ex. No. 1

AY: 2022-2023

 B108
 Greater Cbe
 LUX
 100
 60000 yellow

 B006
 Boat-6
 LUX
 10
 599 yellow

 B026
 Boat-26
 CAR
 10
 599 green

SQL>

SQL> REM Sailor table after the cascade

SQL>

SQL> SELECT \*

2 FROM Sailor;

### SAILOR\_ID SAILOR\_NAME R SAILOR\_DO

\_\_\_\_\_\_

S001	Jackie Chan	A 12-OCT-93
S002	James Bond	A 12-OCT-93
S003	John Smith	B 12-OCT-90
S005	Neil Arms	A 12-OCT-95
S007	Minsker	D 12-OCT-93

SQL>

SQL>

SQL> spool off;

#### **Results / Inferences:**

Thus DDL Commands for the Boat Reservation problem has been implemented in SQL plus along with various constraints violation checking.