SQL> SET PAGES 140

SQL> SET LINES 140

SQL> SELECT * FROM EMP;

EMPNO ENAM	E JOB	MGR HIREDATE	SAL	COMM	DEPTNO
 7369 SMITH	CLERK	7902 17-DEC-80	800	20	
7499 ALLEN	SALESMAN	7698 20-FEB-81	1600	300	30
7521 WARD	SALESMAN	7698 22-FEB-81	1250	500	30
7566 JONES	MANAGER	7839 02-APR-81	2975		20
7654 MARTIN	SALESMAN	N 7698 28-SEP-81	1250	1400	30
7698 BLAKE	MANAGER	7839 01-MAY-81	2850		30
7782 CLARK	MANAGER	7839 09-JUN-81	2450		10
7788 SCOTT	ANALYST	7566 19-APR-87	3000	20	0
7839 KING	PRESIDENT	17-NOV-81	5000	10	
7844 TURNER	SALESMAN	7698 08-SEP-81	1500	0	30
7876 ADAMS	CLERK	7788 23-MAY-87	1100	2	0
7900 JAMES	CLERK	7698 03-DEC-81	950	30	
7902 FORD	ANALYST	7566 03-DEC-81	3000	20)
7934 MILLER	CLERK	7782 23-JAN-82	1300	10	

14 rows selected.

SQL> SELECT * FROM TAB;

TNAME	TABTYPE CLUSTERID
DEPT	TABLE
EMP	TABLE
BONUS	TABLE
SALGRADE	TABLE

6 rows selected. **SQL> -- WITHOUT CONSTRAINTS** SQL> CREATE TABLE WORKER (2 NAME VARCHAR(20), 3 ID NUMBER (4), 4 SALARY NUMBER (6,2), 5 ADDRESS VARCHAR(25), 6 PHNO NUMBER (10)); Table created. SQL> SELECT * FROM TAB; TNAME TABTYPE CLUSTERID DEPT TABLE EMP TABLE TABLE BONUS TABLE SALGRADE COLLAGE TABLE TABLE CSTUD WORKER TABLE 7 rows selected.

Null? Type

COLLAGE TABLE

CSTUD TABLE

SQL> DESC WORKER;

Name

NAME		VARCHAR2(20)
ID		NUMBER(4)
SALARY		NUMBER(6,2)
ADDRESS		VARCHAR2(25)
PHNO		NUMBER(10)
SQL> INSERT INT	O WORKER	
2 VALUES ('SAN	U',1,3500,'ODISHA CUTTAC	<',9861160892);
1 row created.		
SQL> COMMIT;		
Commit complet	e.	
SQL> CREATIOI	N OF TABLE WITH CONSTRAI	NT
SQL> CREATE TAI	BLE PRODUCT(
2 PNAME VARO	HAR(20) NOT NULL,	
3 PRICE NUMBI	ER(6,2) DEFAULT (100.25),	
4 EXDATE DATE	CHECK (EXDATE BETWEEN '	01-JAN-2021' AND '01-JAN-2025'));
Table created.		
SQL> SELECT * FF	ROM TAB;	
TNAME	TABTYPE CLUSTERID	
DEPT	TABLE	
EMP	TABLE	

BONUS	TABLE					
SALGRADE	TABLE					
COLLAGE	TABLE					
CSTUD	TABLE					
WORKER	TABLE					
PRODUCT	TABLE					
8 rows selected.	8 rows selected.					
SQL> DESC PRODU	CT;					
Name		Null? Type				
PNAME		NOT NULL MARCHARA(20)				
PRICE		NOT NULL VARCHAR2(20) NUMBER(6,2)				
EXDATE		DATE				
ENOTHE		DATE				
SQL> INSERT INTO	PRODUCT					
2 VALUES ('CHOC	COLATE',150,'15-JA	.N-2024');				
1 row created.						
SQL> INSERT INTO PRODUCT						
2 VALUES ('CHOCOLATE',120.25,'17-DEC-2024');						
1 row created.						
SQL> INSERT INTO PRODUCT						
2 VALUES (NULL,120.25,'17-DEC-2024');						
VALUES (NULL,120.25,'17-DEC-2024')						

ORA-01400: cannot insert NULL into ("SCOTT"."PRODUCT"."PNAME") SQL> DESC PRODUCT; Name Null? Type **PNAME** NOT NULL VARCHAR2(20) **PRICE** NUMBER(6,2) **EXDATE** DATE SQL> INSERT INTO PRODUCT (PNAME, EXDATE) 2 VALUES ('CHIPS','21-NOV-2023'); 1 row created. SQL> SELECT * FROM PRODUCT; PNAME PRICE EXDATE -----CHOCOLATE 150 15-JAN-24 CHOCOLATE 120.25 17-DEC-24 CHIPS 100.25 21-NOV-23 **SQL> INSERT INTO PRODUCT** 2 VALUES ('ICE CREAM',180,'19-MAR-2026'); **INSERT INTO PRODUCT** ERROR at line 1: ORA-02290: check constraint (SCOTT.SYS_C007006) violated

ERROR at line 2:

```
SQL> INSERT INTO PRODUCT
2 VALUES ('ICE CREAM',180,'19-MAR-2020');
INSERT INTO PRODUCT
ERROR at line 1:
ORA-02290: check constraint (SCOTT.SYS_C007006) violated
SQL> INSERT INTO PRODUCT
2 VALUES ('ICE CREAM',180,'19-MAR-2022');
1 row created.
SQL> SELECT * FROM PRODUCT;
PNAME PRICE EXDATE
CHOCOLATE 150 15-JAN-24
CHOCOLATE 120.25 17-DEC-24
CHIPS 100.25 21-NOV-23
ICE CREAM 180 19-MAR-22
SQL> COMMIT;
Commit complete.
SQL> INSERT INTO PRODUCT
```

2 VALUES ('ICE CREAM',180,NULL);

1 row created.				
SQL> COMMIT;				
Commit comple	Commit complete.			
SQL> SELECT *	SQL> SELECT * FROM PRODUCT;			
	PRICE EXDATE			
CHOCOLATE	150 15-JAN-24			
CHOCOLATE	120.25 17-DEC-24			
CHIPS	100.25 21-NOV-23			
ICE CREAM	180 19-MAR-22			
ICE CREAM	180			
SQL> CREAT	ION OF STUDENT TABLE			
SQL> CREATE T	ABLE STUDENT(
2 SID NUMBE	R (4) PRIMARY KEY,			
3 SNAME VAR	RCHAR (20) NOT NULL,			
4 ADDRESS VARCHAR (30) DEFAULT ('MARATHALLI'),				
5 PHNO NUMBER(10) UNIQUE,				
6 GENDER VA	RCHAR(6) CHECK (GENDER IN ('M','F')));			
Table created.				
SQL> SELECT * FROM TAB;				
TNAME	TABTYPE CLUSTERID			
DEPT	TABLE			

EMP TABLE BONUS TABLE SALGRADE TABLE COLLAGE TABLE CSTUD TABLE WORKER TABLE PRODUCT TABLE TABLE STUDENT 9 rows selected. **SQL> INSERT INTO STUDENT** 2 VALUES (1,'RAM','KR PURAM','8888800000','M'); 1 row created. **SQL> INSERT INTO STUDENT** 2 VALUES (1,'RAM','KR PURAM','8888800000','M'); **INSERT INTO STUDENT** ERROR at line 1: ORA-00001: unique constraint (SCOTT.SYS_C007009) violated **SQL> INSERT INTO STUDENT** 2 VALUES (NULL, SIMA', WHITE FIELD', '986727432', 'F'); VALUES (NULL, 'SIMA', 'WHITE FIELD', '986727432', 'F') ERROR at line 2: ORA-01400: cannot insert NULL into ("SCOTT"."STUDENT"."SID")

SQL> INSERT INTO STUDENT (SID, SNAME) 2 VALUES (3,'DEEP'); 1 row created. **SQL> INSERT INTO STUDENT** 2 VALUES (14,'LALIT','TIN FACTORY',8787087787,'M'); 1 row created. SQL> --CREATE PARENT-CHILD EXAMPLE SQL> CREATE TABLE COUR(2 CID NUMBER(4) PRIMARY KEY, 3 CNAME VARCHAR (20), 4 TNAME VARCHAR (25)); Table created. SQL> SELECT * FROM TAB;

TABTYPE CLUSTERID

DEPT	TABLE
EMP	TABLE
BONUS	TABLE
SALGRADE	TABLE
COLLAGE	TABLE
CSTUD	TABLE
WORKER	TABLE
PRODUCT	TABLE

TNAME

```
STUDENT TABLE
COUR
             TABLE
10 rows selected.
SQL> INSERT INTO COUR
2 VALUES (101,'JAVA','RAVEESH');
1 row created.
SQL> INSERT INTO COUR
2 VALUES (102, 'WEB', 'KISHORE');
1 row created.
SQL> SELECT * FROM COUR;
   CID CNAME TNAME
  101 JAVA RAVEESH
   102 WEB KISHORE
SQL> --CREATE A CHILD TABLE
SQL> CREATE TABLE STUD(
2 SID NUMBER(4) PRIMARY KEY,
3 SNAME VARCHAR(20) NOT NULL,
4 AGE NUMBER(3) CHECK (AGE>18),\
5 CID NUMBER(4) REFERENCES COUR(CID));
AGE NUMBER(3) CHECK (AGE>18),\
ERROR at line 4:
```

ORA-00911: invalid character

SQL> CREATE TABLE STUD(

- 2 SID NUMBER(4) PRIMARY KEY,
- 3 SNAME VARCHAR(20) NOT NULL,
- 4 AGE NUMBER(3) CHECK (AGE>18),
- 5 CID NUMBER(4) REFERENCES COUR(CID));

Table created.

SQL> SELECT * FROM TAB;

TNAME	TABTYPE CLUSTERIE
DEPT	TABLE
EMP	TABLE
BONUS	TABLE
SALGRADE	TABLE
COLLAGE	TABLE
CSTUD	TABLE
WORKER	TABLE
PRODUCT	TABLE

TABLE

TABLE

11 rows selected.

COUR

STUD

STUDENT TABLE

SQL> DESC STUD;

Name Null? Type

SID NOT NULL NUMBER(4) **SNAME** NOT NULL VARCHAR2(20) AGE NUMBER(3) CID NUMBER(4) **SQL> INSERT INTO STUD** 2 VALUES (1,'GITA',21,101); 1 row created. **SQL> INSERT INTO STUD** 2 VALUES (2, VINAY', 18, 101); **INSERT INTO STUD** ERROR at line 1: ORA-02290: check constraint (SCOTT.SYS_C007018) violated **SQL> INSERT INTO STUD** 2 VALUES (2, VINAY', 18, 101); **INSERT INTO STUD** ERROR at line 1: ORA-02290: check constraint (SCOTT.SYS_C007018) violated **SQL> INSERT INTO STUD** 2 VALUES (3,'MAYA',22,NULL);

1 row created.

SQL> INSERT INTO STUD

2 VALUES (2,'VINAY',19,101);

1 row created.

SQL> INSERT INTO STUD

2 VALUES (4,'NILIMA',20,103);

INSERT INTO STUD

*

ERROR at line 1:

ORA-02291: integrity constraint (SCOTT.SYS_C007020) violated - parent key not found

SQL> SELECT * FROM STUD;

SID SNAME	AG	E CID
1 GITA	21	101
3 MAYA	22	
2 VINAY	19	101

SQL> SPOOL OFF