```
SQL> cl scr
SQL> DESC Dept
Name
                                         Null?
 DEPTNO
                                         NOT NULL NUMBER (2)
DNAME
                                                  VARCHAR2 (14)
LOC
                                                  VARCHAR2 (13)
SQL> INSERT INTO Dept
 2 VALUES(NULL, 'SHIPPING', 'CHENNAI');
VALUES(NULL, 'SHIPPING', 'CHENNAI')
ERROR at line 2:
ORA-01400: cannot insert NULL into ("SCOTT"."DEPT"."DEPTNO")
SOL> INSERT INTO Dept
 2 VALUES(50, NULL, 'CHENNAI');
1 row created.
SQL> ROLLBACK;
Rollback complete.
SQL> cl scr
SQL> DESC Emp
                                         Null?
                                                  Type
                                         NOT NULL NUMBER (4)
EMPNO
ENAME
                                                  VARCHAR2 (10)
JOB
                                                  VARCHAR2 (9)
MGR
                                                  NUMBER (4)
HIREDATE
                                                  DATE
SAL
                                                  NUMBER (7, 2)
                                                  NUMBER (7,2)
COMM
                                         NOT NULL NUMBER (2)
DEPTNO
SQL> INSERT INTO Dept
    VALUES (50, 'SHIPPING', 'CHENNAI');
 row created.
SQL> INSERT INTO Dept
 2 VALUES(40, 'CARGO', 'DELHI');
INSERT INTO Dept
```

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```
ERROR at line 1:
ORA-00001: unique constraint (SCOTT.DEPT PRIMARY KEY) violated
SQL> INSERT INTO Dept
  2 VALUES(60, 'SHIPPING', 'MUMBAI');
1 row created.
SOL> ROLLBACK;
Rollback complete.
SQL> cl scr
SQL> DESC Dept
Name
                                          Null?
                                         NOT NULL NUMBER (2)
DEPTNO
DNAME
                                                 VARCHAR2 (14)
                                                   VARCHAR2 (13)
LOC
SQL> SELECT --An SQL Statement For Recognizing The Data Retrieval, And
Columns To Be Projected
 ^{2} * --A Symbol OR Token To Project All The Columns in The
Table(PROJECTION Operator)
  3 FROM -- A Clause That Identifies The Physical OR Logical Data Source
  4 Dept -- The Name of The Data Source From Which The Data Has To Be
Retrieved
   DEPTNO DNAME
                          LOC
       10 ACCOUNTING
                        NEW YORK
       20 RESEARCH
                        DALLAS
       30 SALES
                        CHICAGO
       40 OPERATIONS
                        BOSTON
SQL> DESC SalGrade
                                         Null? Type
Name
GRADE
                                                   NUMBER
LOSAL
                                                   NUMBER
HISAL
                                                   NUMBER
SQL> SELECT *
  2 FROM SalGrade;
```

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GRADE	LOSAL	HISAL			
1 2	700 1201	1200 1400			
3	1401	2000			
4	2001	3000			46
5	3001	9999			
SQL> DESC E	Emp			Null?	Type
EMPNO ENAME JOB MGR HIREDATE SAL				NOT NULL	NUMBER (4) VARCHAR2 (10) VARCHAR2 (9) NUMBER (4) DATE NUMBER (7, 2)
COMM DEPTNO				NOT NIILI.	NUMBER (7,2) NUMBER (2)
SQL> SELECT			16		
EMPNO COMM	ENAME	ЈОВ	MGR	HIREDATE	SAL
DEPTNO		11/1/2			
7839 10	KING	PRESIDENT		17-NOV-83	L 5000
7698 30	BLAKE	MANAGER	7839	01-MAY-81	L 2850
7782 10	CLARK	MANAGER	7839	09-JUN-83	L 2450
EMPNO COMM	ENAME	JOB	MGR	HIREDATE	SAL
DEPTNO					
7566 20	JONES	MANAGER	7839	02-APR-81	L 2975

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••••						
1400	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250
	30					
300		ALLEN	SALESMAN	7698	20-FEB-81	1600
	30					4,5
COMM		ENAME	JOB	MGR	HIREDATE	SAL
COMM						
- 	DEPTNO					
0	7844	TURNER	SALESMAN	7698	08-SEP-81	1500
Ü	30				VIE .	
	7900 30	JAMES	CLERK	7698	03-DEC-81	950
500	7521	WARD	SALESMAN	7698	22-FEB-81	1250
300	30		•			
COMM		ENAME	JOB	MGR	HIREDATE	SAL
-	DEPTNO		VI),			
	7902 20	FORD	ANALYST	7566	03-DEC-81	3000
	7369	SMITH	CLERK	7902	17-DEC-80	800
	7788	SCOTT	ANALYST	7566	09-DEC-82	3000
COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
)_ :	DEPTNO					
	7876	ADAMS	CLERK	7788	12-JAN-83	1100

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	20					
	7934 10	MILLER	CLERK	7782	23-JAN-82	1300
14 r	cows sel	lected.				1.5
		N DEPTNO FOI I * FROM Emp				
COMM		ENAME	JOB	MGR	HIREDATE	SAL
_						
DEPI	NO					
	7839 10	KING	PRESIDENT		17-NOV-81	5000
	7698 30	BLAKE	MANAGER	7839	01-MAY-81	2850
	7782 10	CLARK	MANAGER	7839	09-JUN-81	2450
COMM		ENAME	JOB	MGR	HIREDATE	SAL
- DEPT	NO					
	7566 20	JONES	MANAGER	7839	02-APR-81	2975
1400		MARTIN	SALESMAN	7698	28-SEP-81	1250
300	7499 30	ALLEN	SALESMAN	7698	20-FEB-81	1600
COMM		ENAME	JOB	MGR	HIREDATE	SAL
- DEPT	'NO					

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-								
0	7844 30	TURNER	SALESMAN		7698	08-SEP-81	1500	
		JAMES	CLERK		7698	03-DEC-81	950	, 60
500	7521 30	WARD	SALESMAN		7698	22-FEB-81	1250	
COMI	EMPNO	ENAME	JOB		MGR	HIREDATE	SAL	
- DEP	TNI∩							
		FORD	ANALYST		7566	03-DEC-81	3000	
	7369 20	SMITH	CLERK		7902	17-DEC-80	800	
	7788 20	SCOTT	ANALYST		7566	09-DEC-82	3000	
COMI		ENAME	JOB) 	MGR	HIREDATE	SAL	
- DEP'	INO	C	70,					
	7876 20	ADAMS	CLERK		7788	12-JAN-83	1100	
	7934 10	MILLER	CLERK		7782	23-JAN-82	1300	
14 rows selected.								
SQL> COL EMPNO FOR 9999 SQL> SELECT * FROM Emp;								
EMPI DEP'	NO ENAMI INO	E JOB		MGR	HIREI	DATE	SAL	COMM

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7839 10	KING	PRESIDENT		17-NOV-81	5000	
_	BLAKE	MANAGER	7839	01-MAY-81	2850	
7782	CLARK	MANAGER	7839	09-JUN-81	2450	16
	JONES	MANAGER	7839	02-APR-81	2975	
	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
30 7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
30 7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0
30 7900	JAMES	CLERK	7698	03-DEC-81	950	
30 7521	WARD	SALESMAN	7698	22-FEB-81	1250	500
30 7902	FORD	ANALYST	7566	03-DEC-81	3000	
20 7369	SMITH	CLERK	7902	17-DEC-80	800	
20						
EMPNO DEPTNO		JOB	MGR	HIREDATE	SAL	COMM
			5-1-			
7788 20	SCOTT	ANALYST	7566	09-DEC-82	3000	
7876	ADAMS	CLERK	7788	12-JAN-83	1100	
	MILLER	CLERK	7782	23-JAN-82	1300	
10						
14 row	s selected.					
SQL> S	SET LINESIZE SET PAGESIZE SELECT * FRO	E 20				
EMPNO DEPTNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
7839 10	KING	PRESIDENT		17-NOV-81	5000	
	BLAKE	MANAGER	7839	01-MAY-81	2850	

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7782 10	CLARK	MANAGER	7839	09-JUN-81	2450	
7566	JONES	MANAGER	7839	02-APR-81	2975	
	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
_	TURNER	SALESMAN	7698	08-SEP-81	1500	0
30 7900	JAMES	CLERK	7698	03-DEC-81	950	1
30 7521	WARD	SALESMAN	7698	22-FEB-81	1250	500
30 7902	FORD	ANALYST	7566	03-DEC-81	3000	
20 7369	SMITH	CLERK	7902	17-DEC-80	800	
20 7788	SCOTT	ANALYST	7566	09-DEC-82	3000	
20	ADAMS	CLERK		12-JAN-83	1100	
20						
10	MILLER	CLERK	1182	23-JAN-82	1300	

¹⁴ rows selected.

SQL> SPOOL OFF

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