```
Command Prompt - sqlplus
With the Partitioning, OLAP and Data Mining options
SQL> CREATE TABLE student(rollNo varchar(10),name varchar(20),degree varchar(10),year varchar(10),sex varchar(6),deptNo number(3),advisor varchar(20));
Table created.
SQL> CREATE TABLE department(deptId varchar(10), name varchar(20), hod varchar(20), phone number(10));
Table created.
SQL> CREATE TABLE professor(empId varchar(10),name varchar(20),sex varchar(6),startYear number(4),deptNo number(3),phone number(10));
Table created.
SQL> CREATE TABLE course(courseId varchar(10),cname varchar(10),credits number(3),deptNo number(3));
Table created.
SQL> CREATE TABLE enrollment(rollNo varchar(10),courseId varchar(10),sem varchar(10),year number(4),grade varchar(5));
Table created.
SQL> CREATE TABLE teaching(empId varchar(10),courseId varchar(10),sem varchar(10),year number(4),classRoom varchar(5));
Table created.
SQL> CREATE TABLE preRequisite(preCourseId varchar(10),courseId varchar(10));
Table created.
SQL> INSERT ALL
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS21B2026','Abhiram','B.Tech','2','MALE',2,'Dr.Preet')
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS21B2037','Vishnu','B.Tech','2','MALE',2,'Dr.Preet')
 3
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS22B2030', 'Bannu', 'B. Tech', '1', 'MALE', 1, 'Dr. Santhanam')
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS22B2040', 'Sai', 'B.Tech', '1', 'MALE', 3, 'Dr.Ram prasad')
 5
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS20B2019', 'Siddesh', 'B.Tech', '3', 'MALE', 1, 'Dr.Jagaddesh')
 6
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS20B2020', 'Noni', 'B.Tech', '3', 'MALE', 2, 'Dr. Venkatesh')
 7
        INTO student(rollNo, name, degree, year, sex, deptNo, advisor) VALUES('CS19B2000','Venkat','B.Tech','4','MALE',4,'Dr.Tapasil')
 9 SELECT 1 FROM dual;
rows created.
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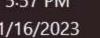












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```
Command Prompt - sqlplus
SQL> INSERT ALL
        INTO course(courseId, cname, credits, deptNo) VALUES('CS2008', 'DBMS',4,1)
        INTO course(courseId, cname, credits, deptNo) VALUES('CS2003','DSD',4,2)
        INTO course(courseId, cname, credits, deptNo) VALUES('MA2000','OTML','MALE',4,3)
        INTO course(courseId, cname, credits, deptNo) VALUES('AI2007','AI','MALE',4,4)
 5
        INTO course(courseId, cname, credits, deptNo) VALUES('ML2006', 'DS', 'MALE',4,5)
 6
        INTO course(courseId, cname, credits, deptNo) VALUES('SP2001', 'SPANISH', 'MALE',4,6)
        INTO course(courseId, cname, credits, deptNo) VALUES('IT2004', 'ITALIAN', 'MALE',4,7)
 9 SELECT 1 FROM dual;
   INTO course(courseId, cname, credits, deptNo) VALUES('MA2000','OTML','MALE',4,3)
ERROR at line 4:
ORA-00913: too many values
SQL> INSERT ALL
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026','CS2008','2ND',2021,'S')
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026','CS2003','2ND',2021,'A')
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026', 'MA2000', '2ND', 2021, 'B')
 4
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026','AI2007','2ND',2021,'A')
 5
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026','ML2006','2ND',2021,'B')
 6
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026', 'SP2001', '2ND', 2021, 'S')
        INTO enrollment(rollNo, courseId, sem, year, grade) VALUES('CS21B2026','IT2004','2ND',2021,'S')
 9 SELECT 1 FROM dual;
7 rows created.
SQL> INSERT ALL
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('01', 'CS2008', '2ND', 2023, 'H12')
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('02','CS2003','2ND',2023,'H12')
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('03', 'MA2000', '2ND', 2023, 'H11')
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('04','AI2007','2ND',2023,'H05')
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('05', 'ML2006', '2ND', 2023, 'H25')
 6
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('06', 'SP2001', '2ND', 2023, 'H06')
        INTO teaching(empId, courseId, sem, year, classRoom) VALUES('01','IT2004','2ND',2023,'H07')
 9 SELECT 1 FROM dual;
7 rows created.
SQL> INSERT ALL
        INTO preRequisite(preCourseId, courseId) VALUES('11','CS1')
        INTO preRequisite(preCourseId, courseId) VALUES('12','CS2')
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        Type here to search
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SQL> SET LINESIZE 300; SQL> SELECT \* FROM student;

ROLLNO	NAME	DEGREE	YEAR	SEX		ADVISOR
CS21B2026	Abhiram	B.Tech	2	MALE		Dr.Preet
CS21B2037	Vishnu	B.Tech	2	MALE	2	Dr.Preet
CS22B2030	Bannu	B.Tech	1	MALE	1	Dr.Santhanam
CS22B2040	Sai	B.Tech	1	MALE	3	Dr.Ram prasad
CS20B2019	Siddesh	B.Tech	3	MALE	1	Dr.Jagaddesh
CS20B2020	Noni	B.Tech	3	MALE	2	Dr.Venkatesh
CS19B2000	Venkat	B.Tech	4	MALE	4	Dr.Tapasil

7 rows selected.

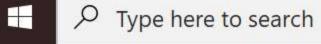
SQL> SELECT \* FROM department;

DEPTID	NAME	HOD	PHONE
1	CSE	Masilamani	9876543210
2	CSAI	Ram prasad	1234567890
3	ECE	Santhanam	9996663330
4	MECH	Thimmaraju	333666999
5	SM	Varadharaju	1111122222
6	SPANISH	Sergio	9898989898
7	IT	Vishnu	777777777

7 rows selected.

SQL> SELECT \* FROM professor;

EMPID	NAME	SEX	STARTYEAR	DEPTNO	PHONE
01	Jagadeesh	MALE	2019	1	1212121212
02	Masilamani	MALE	2011	2	8989898989
<b>0</b> 3	Ram Prasad	MALE	2015	3	999999999
04	Bingi	MALE	2013	4	2122128212
<b>0</b> 5	Sergio	MALE	2013	5	1234567890
<b>0</b> 6	Vishnu	MALE	2020	6	6969696969
<b>0</b> 7	Santhanam	MALE	2012	7	9876543210
			A	office.	





































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EMPID	NAME	SEX	STARTYEAR	DEPTNO	PHONE
01	Jagadeesh	MALE	2019	1	1212121212
02	Masilamani	MALE	2011	2	89898989
<b>0</b> 3	Ram Prasad	MALE	2015	3	999999999
04	Bingi	MALE	2013	4	2122128212
<b>0</b> 5	Sergio	MALE	2013	5	1234567890
<b>0</b> 6	Vishnu	MALE	2020	6	6969696969
07	Santhanam	MALE	2012	7	9876543210

7 rows selected.

SQL> SELECT \* FROM course;

no rows selected

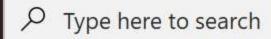
SQL> SELECT \* FROM enrollment;

ROLLNO	COURSEID	SEM	YEAR	GRADE
CS21B2026	CS2008	2ND	2021	S
CS21B2026	CS2003	2ND	2021	A
CS21B2026	MA2000	2ND	2021	В
CS21B2026	AI2007	2ND	2021	A
CS21B2026	ML2006	2ND	2021	В
CS21B2026	SP2001	2ND	2021	S
CS21B2026	IT2004	2ND	2021	S

7 rows selected.

SQL> SELECT \* FROM teaching;

EMPID	COURSEID	SEM	YEAR	CLASS
01	CS2008	2ND	2023	H12
02	CS2003	2ND	2023	H12
<b>0</b> 3	MA2000	2ND	2023	H11
04	AI2007	2ND	2023	H05





























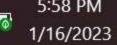




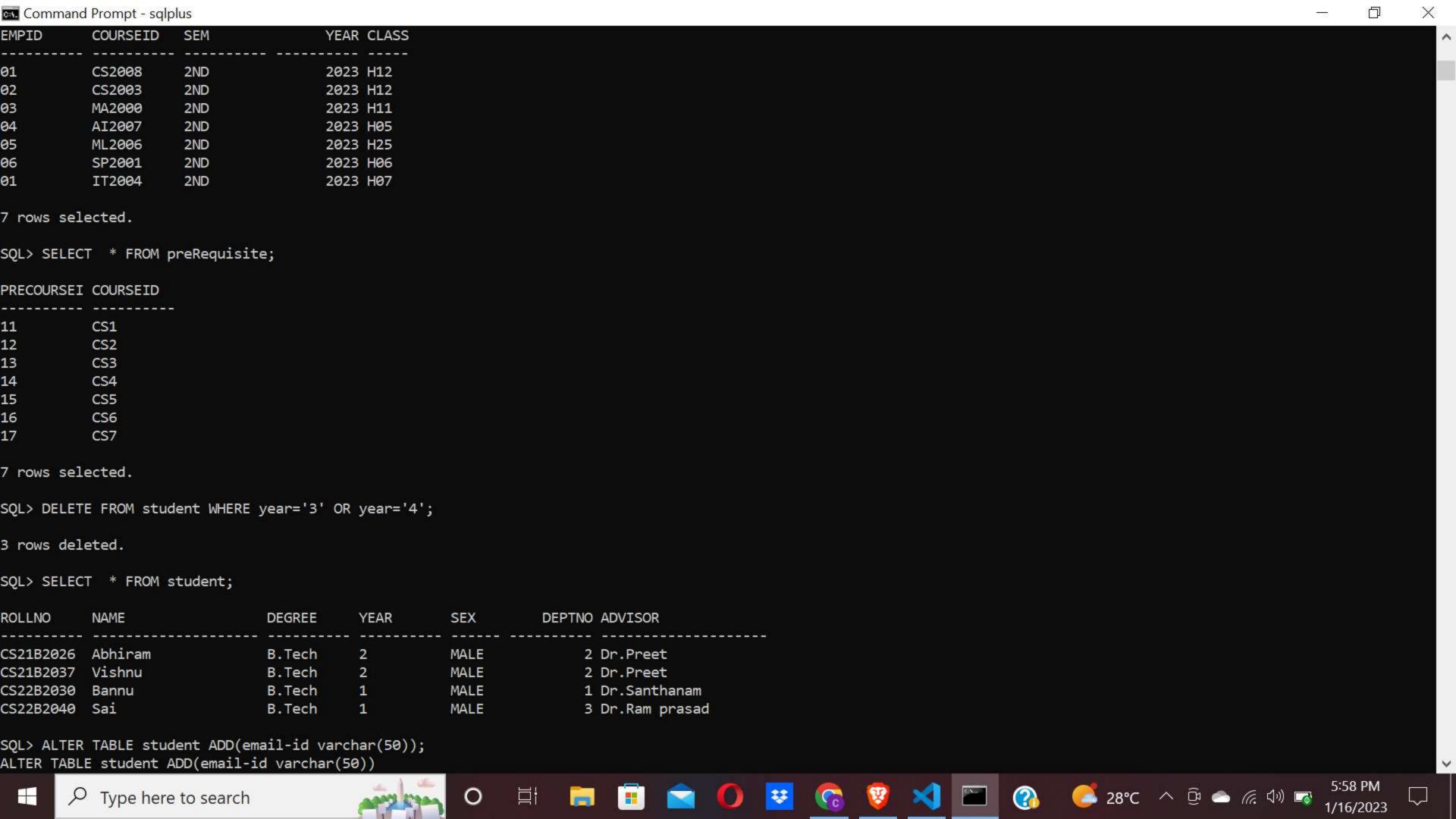












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## SQL> SELECT \* FROM professor;

EMPID	NAME	SEX	STARTYEAR	DEPTNO	PHONE
01	Jagadeesh	MALE	2019	1	1212121212
02	Masilamani	MALE	2011	2	8989898989
03	Ram Prasad	MALE	2015	3	999999999
04	Bingi	MALE	2013	4	2122128212
<b>0</b> 5	Sergio	MALE	2013	5	1234567890
06	Vishnu	MALE	2020	6	6969696969
07	Santhanam	MALE	2012	7	9876543210

7 rows selected.

SQL> ALTER TABLE professor ADD(email-id varchar(50)); ALTER TABLE professor ADD(email-id varchar(50))

ERROR at line 1:

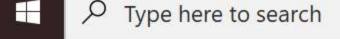
ORA-00902: invalid datatype

SQL> UPDATE professor SET email-id ='jagadeesh@iiitdm.ac.in' WHERE name ='jagadeesh'; UPDATE professor SET email-id ='jagadeesh@iiitdm.ac.in' WHERE name ='jagadeesh'

ERROR at line 1:

ORA-00927: missing equal sign

SQL> UPDATE professor SET email-id ='masilamani@iiitdm.ac.in' WHERE name ='masilamani'; ORA-00927: missing equal sign





































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## Vishnu MALE 2020 6 6969696969 07 Santhanam MALE 2012 7 9876543210

7 rows selected.

SQL> ALTER TABLE professor ADD(emailid varchar(50));

Table altered.

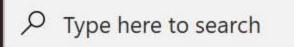
SQL> UPDATE professor SET emailid ='jagadeesh@iiitdm.ac.in' WHERE name ='jagadeesh';

0 rows updated.

SQL> UPDATE professor SET emailid ='masilamani@iiitdm.ac.in' WHERE name ='masilamani';

0 rows updated.

ORA-00927: missing equal sign







































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## SQL> SELECT \* FROM professor;

EMPID	NAME	SEX	STARTYEAR	DEPTNO	PHONE	EMAILID
01	Jagadeesh	MALE	2019	1	1212121212	
02	Masilamani	MALE	2011	2	8989898989	
03	Ram Prasad	MALE	2015	3	999999999	
04	Bingi	MALE	2013	4	2122128212	
05	Sergio	MALE	2013	5	1234567890	
<b>0</b> 6	Vishnu	MALE	2020	6	6969696969	
07	Santhanam	MALE	2012	7	9876543210	

7 rows selected.

SQL> ALTER TABLE student ADD(emailid varchar(50));

ALTER TABLE student ADD(emailid varchar(50))

ERROR at line 1:

ORA-01430: column being added already exists in table

SQL> UPDATE student SET emailid ='CS21B2026@iiitdm.ac.in' WHERE rollNo='CS21B2026';

1 row updated.

SQL> UPDATE student SET emailid ='CS21B2037@iiitdm.ac.in' WHERE rollNo='CS21B2037';

1 row updated.

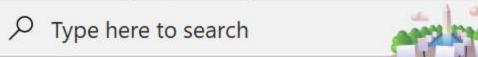
SQL> UPDATE student SET emailid ='CS22B2030@iiitdm.ac.in' WHERE rollNo='CS22B2030';

1 row updated.

SQL> UPDATE student SET emailid ='CS22B2040@iiitdm.ac.in' WHERE rollNo='CS22B2040';

1 row updated.

ORA-00927: missing equal sign























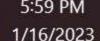














SQL> SELECT \* FROM professor;

EMPID	NAME	SEX	STARTYEAR	DEPTNO	PHONE	EMAILID
01	Jagadeesh	MALE	2019	1	1212121212	
02	Masilamani	MALE	2011	2	8989898989	
03	Ram Prasad	MALE	2015	3	999999999	
04	Bingi	MALE	2013	4	2122128212	
05	Sergio	MALE	2013	5	1234567890	
06	Vishnu	MALE	2020	6	6969696969	
07	Santhanam	MALE	2012	7	9876543210	

7 rows selected.

SQL> ALTER TABLE professor ADD(emailid varchar(50));

ALTER TABLE professor ADD(emailid varchar(50))

ERROR at line 1:

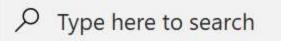
ORA-01430: column being added already exists in table

SQL> UPDATE professor SET emailid ='jagadeesh@iiitdm.ac.in' WHERE name ='Jagadeesh';

1 row updated.

SQL> UPDATE professor SET emailid ='masilamani@iiitdm.ac.in' WHERE name ='Masilamani';

ORA-0<u>0</u>927: missing equal sign

























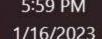














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1 row updated.

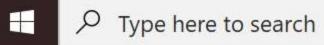
SQL> SELECT \* FROM professor;

EMPID	NAME	SEX	STARTYEAR	DEPTNO	PHONE	EMAILID
01	Jagadeesh	MALE	2019	1	1212121212	jagadeesh@iiitdm.ac.in
02	Masilamani	MALE	2011	2	8989898989	masilamani@iiitdm.ac.in
03	Ram Prasad	MALE	2015	3	999999999	ramprasad@iiitdm.ac.in
04	Bingi	MALE	2013	4	2122128212	bingi@iiitdm.ac.in
05	Sergio	MALE	2013	5	1234567890	sergio@iiitdm.ac.in
06	Vishnu	MALE	2020	6	6969696969	vishnu@iiitdm.ac.in
07	Santhanam	MALE	2012	7	9876543210	santhanam@iiitdm.ac.in

7 rows selected.

SQL>

ORA-0<u>0</u>927: missing equal sign





























1 row updated.

SQL> UPDATE professor SET phone =9912347569 WHERE name ='Sergio';

















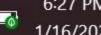














DELLID	NAME	HOD	PHONE
1	CSE	Jagadeesh	9090909090
2	CSAI	Nachiketa	9999988888
3	ECE	Tapasil	9090909090
4	MECH	Gurunathan	9090909090
5	SM	Varadharaju	1111122222
6	SPANISH	Sergio	9898989898
7	IT	Vishnu	777777777

7 rows selected.

SQL> UPDATE professor SET phone =9848756409 WHERE name ='Bingi';

1 row updated.

SQL> UPDATE professor SET phone =9912347569 WHERE name ='Sergio';

1 row updated.

SQL> SELECT \* FROM professor;

NAME	SEX	STARTYEAR	DEPTNO	PHONE	EMAILID
Jagadeesh	MALE	2019	1	1212121212	jagadeesh@iiitdm.ac.in
Masilamani	MALE	2011	2	8989898989	masilamani@iiitdm.ac.in
Ram Prasad	MALE	2015	3	999999999	ramprasad@iiitdm.ac.in
Bingi	MALE	2013	4	9848756409	bingi@iiitdm.ac.in
Sergio	MALE	2013	5	9912347569	sergio@iiitdm.ac.in
Vishnu	MALE	2020	6	6969696969	vishnu@iiitdm.ac.in
Santhanam	MALE	2012	7	9876543210	santhanam@iiitdm.ac.in
1	Masilamani Ram Prasad Bingi Sergio Vishnu	Jagadeesh MALE Masilamani MALE Ram Prasad MALE Bingi MALE Sergio MALE Vishnu MALE	Jagadeesh MALE 2019 Masilamani MALE 2011 Ram Prasad MALE 2015 Bingi MALE 2013 Sergio MALE 2013 Vishnu MALE 2020	Jagadeesh MALE 2019 1 Masilamani MALE 2011 2 Ram Prasad MALE 2015 3 Bingi MALE 2013 4 Sergio MALE 2013 5 Vishnu MALE 2020 6	Jagadeesh       MALE       2019       1 1212121212         Masilamani       MALE       2011       2 8989898989         Ram Prasad       MALE       2015       3 99999999999         Bingi       MALE       2013       4 9848756409         Sergio       MALE       2013       5 9912347569         Vishnu       MALE       2020       6 696969696969

rows selected.



































