```
Command Prompt - sqlplus
SQL> SET LINESIZE 200;
SQL> SET PAGESIZE 20;
SQL> conn system/tiger
Connected.
SQL> Grant create view to scott;
Grant succeeded.
SQL> DROP TABLE Enrolled;
Table dropped.
SQL> DROP TABLE Course;
Table dropped.
SQL> DROP TABLE Student;
Table dropped.
SQL> CREATE TABLE Student(RollNo varchar2(8), SName varchar2(20), Gender varchar2(1), City varchar2(20),
2 CONSTRAINT Student pk PRIMARY KEY(RollNo));
Table created.
SQL> CREATE TABLE Course(CCode varchar2(5), CName varchar2(20), Credit number,
2 CONSTRAINT Course_pk PRIMARY KEY(CCode));
Table created.
SQL> CREATE TABLE Enrolled(RollNo varchar2(8), CCode varchar2(5), YoE number,
2 CONSTRAINT Enrolled fk 1 FOREIGN KEY(RollNo) REFERENCES Student(RollNo),
3 CONSTRAINT Enrolled fk 2 FOREIGN KEY(CCode) REFERENCES Course(CCode));
Table created.
SQL>
SQL> INSERT ALL
        INTO Student(RollNo, SName, Gender, City) VALUES ('1901CS99', 'Anand', 'M', 'Hyderabad')
        INTO Student(RollNo, SName, Gender, City) VALUES ('1901CS98', 'Priya', 'F', 'Delhi')
       INTO Student(RollNo, SName, Gender, City) VALUES ('1901EC97', 'Shreya', 'F', 'Delhi')
        INTO Student(RollNo, SName, Gender, City) VALUES ('1901EC96', 'Abhi', 'M', 'Mumbai')
        INTO Student(RollNo, SName, Gender, City) VALUES ('1901ME95', 'Mrunal', 'F', 'Mumbai')
 7 SELECT * FROM dual;
5 rows created.
SQL> INSERT ALL
                                                                                                                                              Type here to search
```

```
Command Prompt - sqlplus
SQL>
SQL> INSERT ALL
        INTO Course (CCode, CName, Credit) VALUES ('CS500', 'DBMS', 4)
        INTO Course (CCode, CName, Credit) VALUES ('CS555', 'ML', 3)
4
        INTO Course (CCode, CName, Credit) VALUES ('EC300', 'COA', 4)
        INTO Course (CCode, CName, Credit) VALUES ('EC696', 'DSD', 3)
        INTO Course (CCode, CName, Credit) VALUES ('ME969', 'MFE', 2)
        INTO Course (CCode, CName, Credit) VALUES ('ME900', 'MOM', 4)
8 SELECT * FROM dual;
6 rows created.
SQL> INSERT ALL
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS99', 'CS500', 2020)
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS99', 'CS555', 2020)
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS99', 'EC300', 2020)
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS99', 'EC696', 2020)
6
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS99', 'ME969', 2020)
7
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS99', 'ME900', 2021)
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901EC96', 'CS500', 2021)
8
9
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901EC96', 'EC300', 2022)
10
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901EC96', 'EC696', 2021)
11
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901CS98', 'CS555', 2019)
12
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901EC97', 'CS555', 2021)
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901ME95', 'ME900', 2021)
13
14 SELECT * FROM dual;
12 rows created.
SQL> SELECT * FROM Student;
ROLLNO SNAME
                             G CITY
1901CS99 Anand
                            M Hyderabad
1901CS98 Priya
                            F Delhi
1901EC97 Shreya
                            F Delhi
1901EC96 Abhi
                             M Mumbai
1901ME95 Mrunal
                             F Mumbai
SQL> SELECT * FROM Course;
CCODE CNAME
                              CREDIT
CS500 DBMS
CS555 ML
EC300 COA
EC696 DSD
ME969 MFE
                                                                                                                                                   31°C Sunny ∧ ▲ ② 🖎 🦛 4× 🚃 ENG
 Type here to search
                                                                                                                                                                                                  14-03-2023
```

```
Command Prompt - sqlplus
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901EC97', 'CS555', 2021)
12
        INTO Enrolled (RollNo, CCode, YoE) VALUES ('1901ME95', 'ME900', 2021)
13
14 SELECT * FROM dual;
12 rows created.
SQL>
SQL> SELECT * FROM Student;
ROLLNO SNAME
                             G CITY
                             M Hyderabad
1901CS99 Anand
1901CS98 Priya
                             F Delhi
                             F Delhi
1901EC97 Shreya
1901EC96 Abhi
                             M Mumbai
1901ME95 Mrunal
                             F Mumbai
SQL> SELECT * FROM Course;
CCODE CNAME
                              CREDIT
CS500 DBMS
CS555 ML
EC300 COA
EC696 DSD
ME969 MFE
ME900 MOM
6 rows selected.
SQL> SELECT * FROM Enrolled;
ROLLNO CCODE
                     YOE
1901CS99 CS500
                    2020
1901CS99 CS555
                    2020
1901CS99 EC300
                    2020
1901CS99 EC696
                    2020
1901CS99 ME969
                    2020
1901CS99 ME900
                    2021
                    2021
1901EC96 CS500
                    2022
1901EC96 EC300
1901EC96 EC696
                    2021
1901CS98 CS555
                    2019
1901EC97 CS555
                    2021
1901ME95 ME900
                    2021
12 rows selected.
SQL>
```



































```
Command Prompt - sqlplus
SQL>
SQL> -- Question A
SQL> ALTER TABLE Course ADD CType varchar(20);
Table altered.
SQL> ALTER TABLE Student ADD Email varchar(30);
Table altered.
SQL> UPDATE Course
2 SET CType = CASE CCode
       WHEN 'CS500' THEN 'Elective'
       WHEN 'CS555' THEN 'Core'
       WHEN 'EC300' THEN 'Core'
       WHEN 'EC696' THEN 'Elective'
6
       WHEN 'ME969' THEN 'Open-Elective'
       WHEN 'ME900' THEN 'Core'
9 END;
6 rows updated.
SQL> UPDATE Student
2 SET Email = CASE SName
       WHEN 'Anand' THEN 'anand@gmail'
       WHEN 'Priya' THEN 'priya@yahoo'
       WHEN 'Shreya' THEN 'shreya@outlook'
       WHEN 'Abhi' THEN 'abhi@gmail'
       WHEN 'Mrunal' THEN 'mrunal@yahoo'
8 END;
5 rows updated.
SQL>
SQL> CREATE OR REPLACE VIEW StudentEmail AS
2 SELECT RollNo, SName, Email FROM Student;
View created.
SQL> CREATE VIEW CourseType AS
2 SELECT CCode, CType FROM Course;
CREATE VIEW CourseType AS
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> SELECT * FROM StudentEmail;
                                                                                                                                          Type here to search
```



















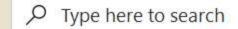




```
Command Prompt - sqlplus
                                                                                                                                                                                            2 SET Email = CASE SName
       WHEN 'Anand' THEN 'anand@gmail'
       WHEN 'Priya' THEN 'priya@yahoo'
       WHEN 'Shreya' THEN 'shreya@outlook'
       WHEN 'Abhi' THEN 'abhi@gmail'
       WHEN 'Mrunal' THEN 'mrunal@yahoo'
8 END;
5 rows updated.
SQL>
SQL> CREATE OR REPLACE VIEW StudentEmail AS
2 SELECT RollNo, SName, Email FROM Student;
View created.
SQL> CREATE VIEW CourseType AS
2 SELECT CCode, CType FROM Course;
CREATE VIEW CourseType AS
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> SELECT * FROM StudentEmail;
ROLLNO SNAME
                           EMAIL
1901CS99 Anand
                           anand@gmail
1901CS98 Priya
                           priya@yahoo
                           shreya@outlook
1901EC97 Shreya
1901EC96 Abhi
                           abhi@gmail
                           mrunal@yahoo
1901ME95 Mrunal
SQL> SELECT * FROM CourseType;
CCODE CTYPE
CS500 Elective
CS555 Core
EC300 Core
EC696 Elective
ME969 Open-Elective
ME900 Core
6 rows selected.
SQL> -- Question B
                                                                                                                                          Type here to search
```

```
Command Prompt - sqlplus
6 rows selected.
SQL>
SQL> -- Question B
SQL> CREATE OR REPLACE VIEW CSCourses AS
2 SELECT CName FROM Course WHERE CCode LIKE 'CS%';
View created.
SQL> SELECT * FROM CSCourses;
CNAME
SQL>
SQL> -- Question C
SQL> CREATE OR REPLACE VIEW MaleStudentWithTwoAs AS
2 SELECT SName FROM Student WHERE SName LIKE '%A%a%';
View created.
SQL> SELECT * FROM MaleStudentWithTwoAs;
SNAME
Anand
SQL> -- Question D
SQL> CREATE OR REPLACE VIEW StudentnotIn 1819 AS
2 SELECT * FROM Student WHERE RollNo IN
3 (SELECT RollNo FROM Enrolled WHERE YOE NOT IN (2018, 2019));
View created.
SQL> SELECT * FROM StudentnotIn_1819;
ROLLNO SNAME
                           G CITY
                                                 EMAIL
1901CS99 Anand
                           M Hyderabad
                                                anand@gmail
                                                abhi@gmail
1901EC96 Abhi
                           M Mumbai
1901EC97 Shreya
                           F Delhi
                                                 shreya@outlook
1901ME95 Mrunal
                                                 mrunal@yahoo
                           F Mumbai
SQL>
SQL> -- Question E
SQL> CREATE OR REPLACE VIEW LeastCreditCourses AS
```































```
Command Prompt - sqlplus
                                                                                                                                                                                         Hyderabad
                            1
SQL>
SQL> -- Question H
SQL> CREATE OR REPLACE VIEW StudentsEnrolledIn5Courses AS
2 SELECT RollNo FROM Enrolled GROUP BY RollNo HAVING COUNT(CCode) = 5;
View created.
SQL> SELECT * FROM StudentsEnrolledIn5Courses;
no rows selected
SQL>
SQL> -- Question I
SQL> CREATE OR REPLACE VIEW NoOfCoursesof1901CS99 AS
2 SELECT COUNT(RollNo) AS NoOfCourses FROM Enrolled WHERE RollNo = '1901CS99';
View created.
SQL> SELECT * FROM NoOfCoursesof1901CS99;
NOOFCOURSES
        6
SQL>
SQL> -- Question J
SQL> CREATE OR REPLACE VIEW Level5Courses AS
2 SELECT * FROM Course WHERE CCode LIKE '__5%';
View created.
SQL> SELECT * FROM Level5Courses;
CCODE CNAME
                           CREDIT CTYPE
CS500 DBMS
                                4 Elective
CS555 ML
                                3 Core
SQL>
SQL> -- Question K
SQL> CREATE OR REPLACE VIEW StudentsFromCS AS
2 SELECT COUNT(RollNo) AS NoOfStudents FROM Student WHERE RollNo LIKE '%CS%';
View created.
SQL> SELECT * FROM StudentsFromCS;
NOOFSTUDENTS
                                           H 📻 😍
                                                                                                                                       Type here to search
```

