```
SAHIL PANDYA
21124097
B.TECH CSE 2^{ND} YEAR 4^{TH} SEM
DBMS END-SEM
Q1.) SECTION A
1.
TABLE CITY:-
Create table city(
 ID int PRIMARY KEY,
 Name Varchar(20),
 CountryCode Varchar(20) CHECk(CountryCode=UPPER(CountryCode)),
 District Varchar(20),
 Population int
 );
 Insert into city values(1,'Kabul','AFG','Kabol',1780000);
 Insert into city values(3,'Herat','AFG','Herat',186800);
 Insert into city values(1025, 'Delhi', 'IND', 'Delhi', 7206704);
 Insert into city values(1032, 'Nagpur', 'IND', 'Maharashtra', 1624752);
 Insert into city values(12, 'Breda', 'NLD', 'Noord-Brabant', 160398);
 Insert into city values(16, 'Haarlem', 'NLD', 'Noord-Brabant', 148772);
 Insert into city values(29,'Ede','NLD','Gelderland',101574);
 Select * from city;
```

1|Kabul|AFG|Kabol|1780000 3|Herat|AFG|Herat|186800

```
1025 | Delhi | IND | Delhi | 7206704
   1032 Nagpur IND Maharashtra 1624752
   12|Breda|NLD|Noord-Brabant|160398
   16 | Haarlem | NLD | Noord-Brabant | 148772
   29|Ede|NLD|Gelderland|101574
   [Execution complete with exit code 0]
TABLE COUNTRY:-
Create table Country(
Code Varchar(20),
Name Varchar(50),
Continent Varchar(20),
 Region Varchar(50),
SurfaceArea Int,
IndepYear Int,
 Population Int
Insert INTO Country values ('AFG', 'Afghanistan', 'Asia', 'Southern and Central
Asia',652090.00,1919,22720000);
Insert INTO Country values('IND','India','Asia','Southern and Central
Asia',3287263.00,1947,1013662000);
Insert INTO Country values('NLD','Netherlands','Europe','Western
Europe',41526.00,1581,15864000);
Select * from Country;
```

```
AFG|Afghanistan|Asia|Southern and Central
Asia|652090|1919|22720000
IND|India|Asia|Southern and Central
Asia|3287263|1947|1013662000
NLD|Netherlands|Europe|Western Europe|41526|1581|15864000

[Execution complete with exit code 0]
```

```
TABLE COUNTRYLANGUAGE:-
Create table CountryLanguage(
 Countrycode Varchar(5),
 Language Varchar(20),
 IsOfficial Varchar(3),
 Percentage Int,
 PRIMARY KEY(CountryCode,Language)
 );
 Insert into CountryLanguage values('AFG','Balochi','F',0.9);
 Insert into CountryLanguage values('AFG','Dari','T',32.1);
 Insert into CountryLanguage values('AFG','Pashto','T',52.4);
 Insert into CountryLanguage values('AFG','Tukmenian','F',1.9);
 Insert into CountryLanguage values('AFG','Uzbek','F',8.8);
 Insert into CountryLanguage values('IND','Asami','F',1.5);
 Insert into CountryLanguage values('IND','Bengali','F',8.2);
 Insert into CountryLanguage values('IND','Gujarati','F',4.8);
 Insert into CountryLanguage values('IND','Hindi','T',39.9);
 Insert into CountryLanguage values('IND','Kannada','F',3.9);
 Insert into CountryLanguage values('IND','Malyalam','F',3.6);
 Insert into CountryLanguage values('IND','Marathi','F',7.4);
 Select * from CountryLanguage;
```

```
AFG|Balochi|F|0.9
AFG|Dari|T|32.1
AFG|Pashto|T|52.4
AFG|Tukmenian|F|1.9
AFG|Uzbek|F|8.8
IND|Asami|F|1.5
IND|Bengali|F|8.2
IND|Gujarati|F|4.8
IND|Hindi|T|39.9
IND|Kannada|F|3.9
IND|Malyalam|F|3.6
IND|Marathi|F|7.4

[Execution complete with exit code 0]
```

```
2 .
SELECT COUNT(*) AS NumLanguages
FROM CountryLanguage
WHERE CountryCode = 'IND';
```

```
AFG|Balochi|F|0.9
AFG|Dari|T|32.1
AFG|Pashto|T|52.4
AFG|Tukmenian|F|1.9
AFG|Uzbek|F|8.8
IND|Asami|F|1.5
IND|Bengali|F|8.2
IND|Gujarati|F|4.8
IND|Hindi|T|39.9
IND|Kannada|F|3.9
IND|Malyalam|F|3.6
IND|Marathi|F|7.4
7
```

3.

SELECT COUNT(DISTINCT Language) AS NumLanguages FROM CountryLanguage

WHERE Percentage < 10;

FROM Country

```
AFG|Balochi|F|0.9
   AFG|Dari|T|32.1
   AFG|Pashto|T|52.4
   AFG|Tukmenian|F|1.9
   AFG | Uzbek | F | 8.8
   IND | Asami | F | 1.5
   IND|Bengali|F|8.2
   IND|Gujarati|F|4.8
   IND|Hindi|T|39.9
   IND | Kannada | F | 3.9
   IND|Malyalam|F|3.6
   IND|Marathi|F|7.4
    9
4.
SELECT Language
FROM CountryLanguage
WHERE CountryCode = 'AFG' AND IsOfficial = TRUE;
5.
SELECT Country.Name, MIN(City.Population) AS LowestPopulation, MAX(City.Population) AS
HighestPopulation
FROM Country
INNER JOIN City ON Country.Code = City.CountryCode
GROUP BY Country.Name;
6.
SELECT *
FROM City
WHERE Name LIKE 'H%' AND District LIKE 'H%';
7.
SELECT Name, Population
```

```
ORDER BY Population DESC
LIMIT 1 OFFSET 1;
8.
ALTER TABLE Country
DROP COLUMN IndepYear;
9.
SELECT Country.Name, SUM(City.Population) AS TotalPopulation
FROM Country
INNER JOIN City ON Country.Code = City.CountryCode
GROUP BY Country.Name;
10.
SELECT City.Name AS CityName, Country.Name AS CountryName, City.Population
FROM City
INNER JOIN Country ON City.CountryCode = Country.Code;
Q.2) SECTION B
DECLARE
a NUMBER := 1;
b NUMBER := 2;
c NUMBER := 3;
BEGIN
IF a > b
AND a > c THEN
dbms_output.Put_line('Greatest number is '||a);
ELSIF b > a
AND b > c THEN
dbms_output.Put_line('Greatest number is '||b);
ELSE
dbms_output.Put_line('Greatest number is '||c);
END IF;
END;
```

Statement processed. Greatest number is 3