

Practical - 1

Creating tables.

SQL Query to create a table is given as:

```
CREATE TABLE Person1
(
    PersonID int primary key,
    LastName varchar(255) unique,
    FirstName varchar(255) not null,
    Address varchar(255) default 'balaganj',
    City varchar(255) default 91
);
```

Query to get detail of table

```
SQL> desc person1;
```

Name	Null?	Type
PERSONID	NOT NULL	NUMBER(38)
LASTNAME		VARCHAR2(255)
FIRSTNAME	NOT NULL	VARCHAR2(255)
ADDRESS		VARCHAR2(255)
CITY		VARCHAR2(255)

Practical - 2

Insertion, Deletion, Updation and Retrieval of data.

Query to insert a row in table person2 .

insert into person2 (personid1,lastname,firstname, personid) values (113,'dixit','ram',111);

```
SQL> insert into person2 (personid1,lastname,firstname,personid) values (113,'dixt','ram',111);  
  
1 row created.
```

Query to select all row from table person2 .

Select * from person2;

```
SQL> select * from person2;  
  
      PERSONID1  
-----  
LASTNAME  
-----  
FIRSTNAME  
-----  
ADDRESS  
-----  
CITY  
-----  
      PERSONID  
-----  
              113  
dixt  
ram  
balaganj  
91  
              111
```

Query to update table person1

update person1 set lastname='awast',firstname='atul',address='banpur' where ((personid=111 or address='banpur') and lastname='awasthi');

select * from person1;

Query Output

```
SQL> update person1 set lastname='awast',firstname='atul',address='banpur' where ((personid=111 or address='banpur') and lastname='awasthi');
0 rows updated.

SQL> update person1 set lastname='awast',firstname='atul',address='banpur' where ((personid=111 or address='banpur') and lastname='awasthi');
0 rows updated.

SQL> select * from person1;

      PERSONID
-----
LASTNAME
-----
FIRSTNAME
-----
ADDRESS
-----
CITY
-----
      111
awast
atul
banpur

      112
dix
ram
balaganj

      113
dixy
ram
balaganj

SQL>
```

Query to delete all rows from table 'aa'

delete from aa;

```
SQL> delete from aa;

10 rows deleted.

SQL> select * from aa
2 ;

no rows selected

SQL> desc aa
Name                                         Null?      Type
-----
QWERTYUIOPASD                               NUMBER(38)
```

Query to delete selected rows from table 'person1'

DELETE FROM person1 WHERE ((personid=111 or address='balaganj') and lastname='dixy');

```
SQL> DELETE FROM person1 WHERE ((personid=111 or address='balaganj') and lastname='dixy');
1 row deleted.

SQL> select * from person1;
```

PERSONID	LASTNAME	FIRSTNAME	ADDRESS	CITY
111	awast	atul	banpur	
112	dix	ram	balaganj	

Practical - 3

Arithmetic operations, Logical operations and Pattern matching.

Sql> SELECT * FROM person2 WHERE lastname LIKE 'a%';

SQL> SELECT * FROM person2 WHERE lastname LIKE 'a%' and city like '%o';

```
SQL> SELECT * FROM person2 WHERE lastname LIKE 'a%' and city like '%o';
```

PERSONID1

LASTNAME

FIRSTNAME

ADDRESS

CITY

PERSONID

121
awas
rahu
banpu
hardo
111

SQL> select lastname, personid1, personid from person2 order by personid asc, personid1 asc;

```
SQL> select lastname, personid1, personid from person2 order by personid asc, personid1 asc;
```

LASTNAME

PERSONID1

PERSONID

dixt
113
111
awas
121
111
awast
122
112

SQL> UPDATE person2 SET personid1 = personid1 + 1;

SQL> UPDATE person2 SET personid1 = personid1 - 1;

SQL> UPDATE person2 SET personid1 = personid1 * 1;

SQL> UPDATE person2 SET personid1 = personid1 / 1;

```
SQL> UPDATE person2 SET personid1 = personid1 + 1;
3 rows updated.

SQL> UPDATE person2 SET personid1 = personid1 - 1;
3 rows updated.

SQL> UPDATE person2 SET personid1 = personid1 * 1;
3 rows updated.

SQL> UPDATE person2 SET personid1 = personid1 / 1;
3 rows updated.
```

Practical - 4

Concept of Grouping (Group by clause, Having Clause).

The GROUP BY statement groups rows that have the same values into summary rows, like "find the number of customers in each country".

The GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.

SQL> SELECT count(*), address from employee GROUP BY address;

```
SQL> SELECT count(*), address from employee GROUP BY address;
```

COUNT(*)	ADDRESS
1	ab balaganj
1	bb balaganj
1	cb balaganj
1	db balaganj
1	eb balaganj
1	fb balaganj
1	gb balaganj
9	hb balaganj

8 rows selected.

SQL> SELECT COUNT(empid), name FROM employee GROUP BY name ORDER BY COUNT(empID) DESC;

```
SQL> SELECT COUNT(empid), name FROM employee GROUP BY name ORDER BY COUNT(empID) DESC;
```

COUNT(EMPID)	NAME
4	jb
2	kb
1	cb
1	db
1	eb
1	lb
1	gb
1	hb
1	ib
1	bb
1	ab
1	fb

12 rows selected.

```
SQL> SELECT count(empid), name from employee GROUP BY name;
```

The SQL HAVING Clause

```
SQL> select * from employee;
```

EMPID	NAME	ADDRESS	SAL	AGE
1	ab	ab balaganj	1000	18
2	bb	bb balaganj	2000	19
3	cb	cb balaganj	3000	20
4	db	db balaganj	4000	21
5	eb	eb balaganj	5000	22
6	fb	fb balaganj	6000	23
7	gb	gb balaganj	7000	24
8	hb	hb balaganj	8000	25
9	ib	hb balaganj	8000	25
10	jb	hb balaganj	8000	25
10	jb	hb balaganj	8000	25
11	jb	hb balaganj	8000	25
12	jb	hb balaganj	8000	25
12	kb	hb balaganj	8000	25
13	kb	hb balaganj	8000	26
14	lb	hb balaganj	8000	27

16 rows selected.

```
SQL> SELECT count(empid), name from employee GROUP BY name;
```

COUNT(EMPID)	NAME
1	ab
1	bb
1	cb
1	db
1	eb
1	fb
1	gb
1	hb
1	ib
4	jb
2	kb
1	lb

12 rows selected.

The HAVING clause was added to SQL because the WHERE keyword cannot be used with aggregate functions.

```
SQL> SELECT COUNT(empID), name FROM employee GROUP BY name HAVING COUNT(empID) >=4;
```

```
SQL> SELECT COUNT(empID), name FROM employee GROUP BY name HAVING COUNT(empID) >=1;
```

```
SQL> SELECT COUNT(empID), name FROM employee GROUP BY name HAVING COUNT(empID) >=2;
```



```
SQL> SELECT COUNT(empID), name FROM employee GROUP BY name HAVING COUNT(empID) >=4;
```

COUNT(EMPID)	NAME
4	jb

```
SQL> SELECT COUNT(empID), name FROM employee GROUP BY name HAVING COUNT(empID) >=1;
```

COUNT(EMPID)	NAME
1	ab
1	bb
1	cb
1	db
1	eb
1	fb
1	gb
1	hb
1	ib
4	jb
2	kb
1	lb

12 rows selected.

```
SQL> SELECT COUNT(empID), name FROM employee GROUP BY name HAVING COUNT(empID) >=2;
```

COUNT(EMPID)	NAME
4	jb
2	kb

Practical - 5

Use Aggregate function in query.

SQL>SELECT SUM(personid1) FROM person2;

SQL>SELECT count(personid1) FROM person2;

SQL>SELECT avg(personid1) FROM person2;

SQL> SELECT min(personid1) FROM person2;

SQL> SELECT max(personid1) FROM person2;

```
SQL> select * from person2;

      PERSONID1
-----
LASTNAME
-----
FIRSTNAME
-----
ADDRESS
-----
CITY
-----
      PERSONID
-----
dixt          113
ram
balaganj
91
          111
          121
awas
rahu
banpu
hardo          111
          122
awast
rahu
banpur
hardoi          112

SQL> SELECT SUM(personid1) FROM person2;

      SUM(PERSONID1)
-----
          356

SQL> SELECT avg(personid1) FROM person2;

      AVG(PERSONID1)
-----
118.6666666666667

SQL> SELECT count(personid1) FROM person2;

      COUNT(PERSONID1)
-----
          3
```

```

SQL> SELECT SUM(personid1) FROM person2;

SUM(PERSONID1)
-----
356

SQL> SELECT avg(personid1) FROM person2;

AVG(PERSONID1)
-----
118.666666666667

SQL> SELECT count(personid1) FROM person2;

COUNT(PERSONID1)
-----
3

SQL> SELECT min(personid1) FROM person2;

MIN(PERSONID1)
-----
113

SQL> SELECT max(personid1) FROM person2;

MAX(PERSONID1)
-----
122

```

Practical - 6

Write commands for Union and Intersection.

Union and intersection

SQL> select name from employee where age >= 20

2 union

3 select name from employee where age >= 22;

SQL> select name from employee where age >= 22

2 intersect

3 select name from employee where age >= 20;

```
SQL> select name from employee where age >= 20
2 union
3 select name from employee where age >= 22;

NAME
-----
cb
db
eb
fb
gb
hb
ib
jb
kb
lb

10 rows selected.

SQL> select name from employee where age >= 22
2 intersect
3 select name from employee where age >= 20;

NAME
-----
eb
fb
gb
hb
ib
jb
kb
lb

8 rows selected.
```

Practical - 7

Concept of Sub-query.

SELECT personid, firstname, address,city FROM person1 WHERE personid= (SELECT MAX(personid)
FROM person1);

```
SQL> SELECT personid, firstname, address,city FROM person1 WHERE personid= (SELECT MAX( personid) FROM person1 );
```

PERSONID

FIRSTNAME

ADDRESS

CITY

112
ram
balaganj

Practical - 8

Concept of Data constraints (Unique Key, Primary Key, Foreign Key).

```
CREATE TABLE Person2 (  
    PersonID1 int ,  
    LastName varchar(255) unique,  
    FirstName varchar(255) not null,  
    Address varchar(255) default 'balaganj',  
    City varchar(255) default 91,  
    PersonID int,  
    primary key(PersonID1),  
    foreign key(PersonID) references person1(PersonID)  
);
```

```
SQL> CREATE TABLE Person2 (  
2         PersonID1 int ,  
3         LastName varchar(255) unique,  
4         FirstName varchar(255) not null,  
5         Address varchar(255) default 'balaganj',  
6         City varchar(255) default 91,  
7     PersonID int,  
8     primary key(PersonID1),  
9     foreign key(PersonID) references person1(PersonID)  
10         );
```

Table created.

```
SQL> desc person2;
```

Name	Null?	Type
PERSONID1	NOT NULL	NUMBER(38)
LASTNAME		VARCHAR2(255)
FIRSTNAME	NOT NULL	VARCHAR2(255)
ADDRESS		VARCHAR2(255)
CITY		VARCHAR2(255)
PERSONID		NUMBER(38)

Practical - 9

Creating Views and Indexes.

SQL> create view vperson as select personid, firstname, address from person1;

SQL> select * from vperson;

```
SQL> create index indxp on person1(firstname);  
  
Index created.
```

```
SQL> create view vperson as  
2 select personid, firstname, address  
3 from person1;
```

View created.

SQL> select * from vperson;

PERSONID

FIRSTNAME

ADDRESS

111

atul
banpur

112

ram
balaganj

PERSONID

FIRSTNAME

ADDRESS

```
SQL> create view vper as  
2 select personid, firstname, address  
3 from person1;
```

View created.

SQL> drop view vper;

View dropped.

Practical -10

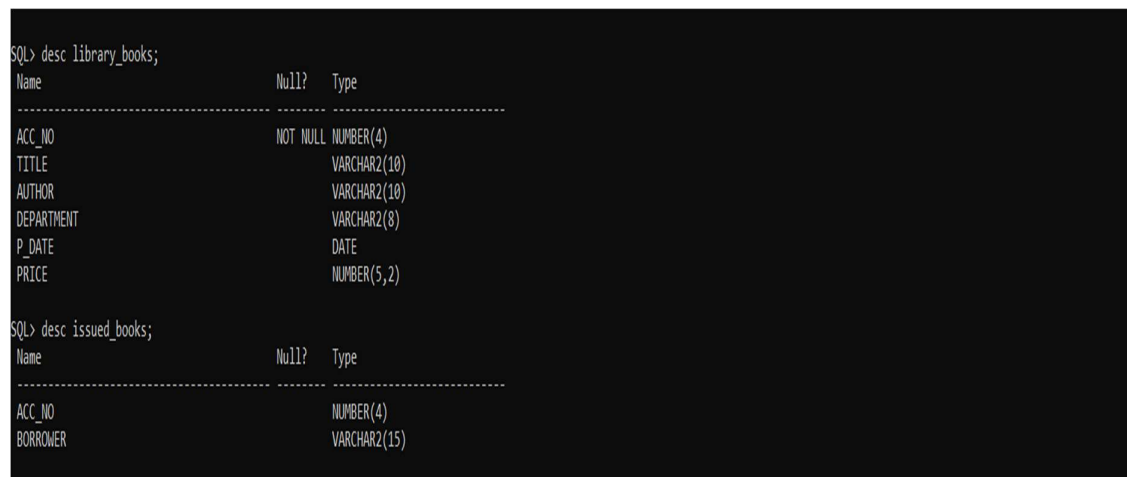
Library Management System

Library Books(Accession No, Title, Author, Department, Purchase Date , Price)

Issued Books(Accession No ,Borrower)

```
SQL> create table library_books(acc_no number(4)primary key,title varchar(10),author  
varchar(15),department varchar(10),p_date date,price number(5,2));
```

```
SQL> create table issued_books(acc_no ,borrower varchar(50),foreign key(acc_no)references  
library_books(acc_no));
```



```
SQL> desc library_books;  
Name                               Null?    Type  
-----  
ACC_NO                             NOT NULL NUMBER(4)  
TITLE                              VARCHAR2(10)  
AUTHOR                             VARCHAR2(10)  
DEPARTMENT                         VARCHAR2(8)  
P_DATE                             DATE  
PRICE                              NUMBER(5,2)  
  
SQL> desc issued_books;  
Name                               Null?    Type  
-----  
ACC_NO                             NUMBER(4)  
BORROWER                           VARCHAR2(15)
```

❖ **Identify Primary key and Foreign keys, Create the tables and insert at least 5 records in each table.**

- **Primary keys for library_books are Acc_no**
- **Foreign key for issued_books is Acc_no**

```
SQL> insert into library_books(101,'DBMS','A W','C.S','01-JUL-2022',750);
```

```
SQL> insert into library_books values(102,'SE','K Pressman','C.S','02-JUL-2022,800);
```

```
SQL> insert into library_books values(103,'MM','Mcgrew ','C.S','03-JUL-2022',900);
```

```
SQL> insert into library_books values(104,'DM Manohar','C.S','04-JUL2022',900);
```

```
SQL> insert into library_books values(105,'BE ','D.N Divedi','C.S','05-JUL-2022',850);
```



```
SQL> SELECT * FROM LIBRARY_BOOKS;
```

ACC_NO	TITLE	AUTHOR	DEPARTME	P_DATE	PRICE
101	DBMS	A.W	C.S	01-JUL-22	750
102	S E	K.PRESSMAN	C.S	02-JUL-22	800
103	M M	McGrew	C.S	03-JUL-22	900
104	D D	R MANOHAR	C.S	04-JUL-22	900
105	B E	D N	C.S	06-JUL-22	850

```
SQL> ■
```

SQL> insert into issued_books values(101,'Pradeep');

SQL> insert into issued_books values(102,'Amit');

SQL> insert into issued_books values(103,'Sujeet');

SQL> insert into issued_books values(104,'Anujt');

SQL> insert into issued_books values(105,'Aditi');

```
SQL> select * from issued_books;
```

```
ACC_NO BORROWER
```

```
-----  
101 Sujeet  
102 Amit  
103 Pradeep  
104 Anup
```

```
SQL> █
```

❖ **Delete the record of book Title “DBMS” .**

SQL> delete from library_books where Title="Business Economics";

❖ **Change the Department of the book Titled “Discrete Mathematics” to “CSE”.**

SQL> update library_books set department="CSE" where Title ="DM ";

```
SQL> update library_books set department = 'CSE' where acc_no=101;
```

```
1 row updated.
```

```
SQL> select *from library_books;
```

```
ACC_NO TITLE    AUTHOR    DEPARTME P_DATE    PRICE  
-----  
101 DBMS       A.W       CSE       01-JUL-22    750  
102 S E        K.PRESSMAN C.S       02-JUL-22    800  
103 M M        McGrew    C.S       03-JUL-22    900  
104 D D        R MANOHAR C.S       04-JUL-22    900  
105 B E        D N       C.S       06-JUL-22    850
```

```
SQL>
```

❖ **List all books that belong to “CSE” department**

SQL> select *from library_books where department ="CSE";

```
SQL> select *from library_books WHERE AUTHOR='A.W';
```

ACC_NO	TITLE	AUTHOR	DEPARTME	P_DATE	PRICE
101	DBMS	A.W	CSE	01-JUL-22	750

```
SQL> _
```

❖ List all books that belong to “CSE” department and are written by author “A.W”.

```
SQL> select *from library_books WHERE AUTHOR='A.W';
```

ACC_NO	TITLE	AUTHOR	DEPARTME	P_DATE	PRICE
101	DBMS	A.W	CSE	01-JUL-22	750

```
SQL> _
```

❖ List all books which have a price less than 900 or purchased between “12/12/2022”.

SQL> select * from library_books where (price<900 or p_date>="01-JUL-2022" and p_date <="05-JUL-2022");

```
SQL> select * from library_books where price<900 and P_date<='05-jul-2022';
```

ACC_NO	TITLE	AUTHOR	DEPARTME	P_DATE	PRICE
101	DBMS	A.W	CSE	01-JUL-22	750
102	S E	K.PRESSMAN	C.S	02-JUL-22	800
105	B E	D N	C.S	05-JUL-22	850

```
SQL> _
```

Practical -11

Student Management System

Student (College_roll_no,Std_name,Dob,Address,Marks(Round off to whole number) in Percentage at 10+2 phone_no)

Paper_Details(Paper_code,Name_of_paper)

Academic_Details(College_roll_no,Paper_code,Attendance,Marks n home examination)

Identify primary key and foreign keys.create the table and insert at least 5 records in each table

SQL> create table student(Std_roll_no number(4) primary key,std_name varchar(15),dob date,address varchar(15),marks number(8,2));

```
SQL> desc student;
Name                               Null?    Type
-----
STD_ROLL_NO                        NOT NULL NUMBER(4)
STD_NAME                           VARCHA2(15)
DOB                                DATE
ADDRESS                            VARCHA2(15)
MARKS                              NUMBER(8,2)
PHONE_NO                           NUMBER(10)
SQL>
```

SQL> create table paper_details(paper_code number(8) primary key ,name_of_paper varchar(25));

```
SQL> desc paper_details;
Name                               Null?    Type
-----
PAPER_CODE                         NOT NULL NUMBER(8)
NAME_OF_PAPER                      VARCHA2(25)
SQL>
```

SQL> create table academic_details(std_roll_no number(4),paper_code number(8),attendance varchar(8),marks number(10),foreign key (std_roll_no) references student(std_roll_no),foreign key(paper_code) references paper_details(paper_code));

```
SQL> desc academic_details;
Name                               Null?    Type
-----
STD_ROLL_NO                        NUMBER(4)
PAPER_CODE                         NUMBER(8)
ATTENDANCE                         VARCHA2(8)
MARKS                              NUMBER(10)
SQL>
```

Primary key : *For Student std_roll_no,for paper details paper_code.*

Foreign key: *std_roll_no ,paper_code for academic_details.*

Sql>insert into students values ('11','sujeet','03-feb-2002','lucknow','369','79058014')

Sql>insert into students values ('12','Amit','05-may-2003','Piparsand','340','89245364')

Sql>insert into students values ('13','Pradeep','15-aug-2004','Malihabad','524','76549809')

Sql>insert into students values ('14','Anuj','12-apr-2001','Malihabad','349','98759876')

```
SQL> select *from students;
```

STD_ROLL_NO	STD_NAME	DOB	ADDRESS	MARKS	PHONE_NO
11	sujeet	03-FEB-02	lucknow	369	79058014
12	Amit	05-MAY-03	Piparsand	340	89245364
13	Pradeep	15-AUG-04	Malihabad	524	76549809
14	Anuj	12-APR-01	Malihabad	349	98759876

Sql>insert into paper_details values ('101','Paper1')

Sql>insert into paper_details values ('102','Paper2')

Sql>insert into paper_details values ('103','Paper3')

Sql>insert into paper_details values ('104','Paper4')

Sql>insert into paper_details values ('105','Paper5')

```
SQL> select * from paper_details;
```

PAPER_CODE	NAME_OF_PAPER
101	Paper1
102	Paper2
103	Paper3
104	Paper4
105	Paper5

```
SQL> _
```

insert into academic_details values('11','101','p','369')

insert into academic_details values('12','102','p','340')

insert into academic_details values('13','103','p','524')

insert into academic_details values('14','104','p','341')

```
SQL> select * from academic_details;
```

STD_ROLL_NO	PAPER_CODE	ATTENDAN	MARKS
11	101	p	369
12	102	p	340
13	103	p	524
14	104	p	341

Design a query that will return the records (from the second table along with the name of student from the first table, related to students who have more than 75% attendance and more than 60% marks in paper 2.

```
Sql> select paper_code,name_of_paper,std_name,from paper_details,students,academic_details
```

Where paper_details.paper_code=academic_details.paper_code and
academic_details.std_roll_no=students.std_roll_no and academic_details.attendance>75 and
academic_details.marks>75 and paper_details.name_of_paper='Paper2';

```
SQL> select std_name from students where std_roll_no=11;
```

```
STD_NAME
```

```
-----  
Sujeet
```

```
SQL> _
```

List all students who live in “ Lucknow ” and have marks greater than 60 in paper 1.

```
Sql> select std_name from paper_details,students,academic_details where  
paper_details.paper_code=academic_details.paper_code and  
students.std_roll_no=academic_details.std_roll_no and academic_details.marks>60 and  
paper_details.name_of_paper='Paper1';
```

Select sum(marks)from academic_details.

```
Sql>Select sum(marks)from academic_details.
```

```
SQL> select sum(marks) from academic_details;
```

```
SUM(MARKS)
```

```
-----  
1150
```

```
SQL>
```

Practical -12

Customer Management System

Customer(Cust_id,Email,Name,Phone,Referrer_id).

Bicycle(Bicycle_id,Date_purchased,Color,Cust_id, Model_no).

Bicycle_model(Model_no,Manufacture,Style).

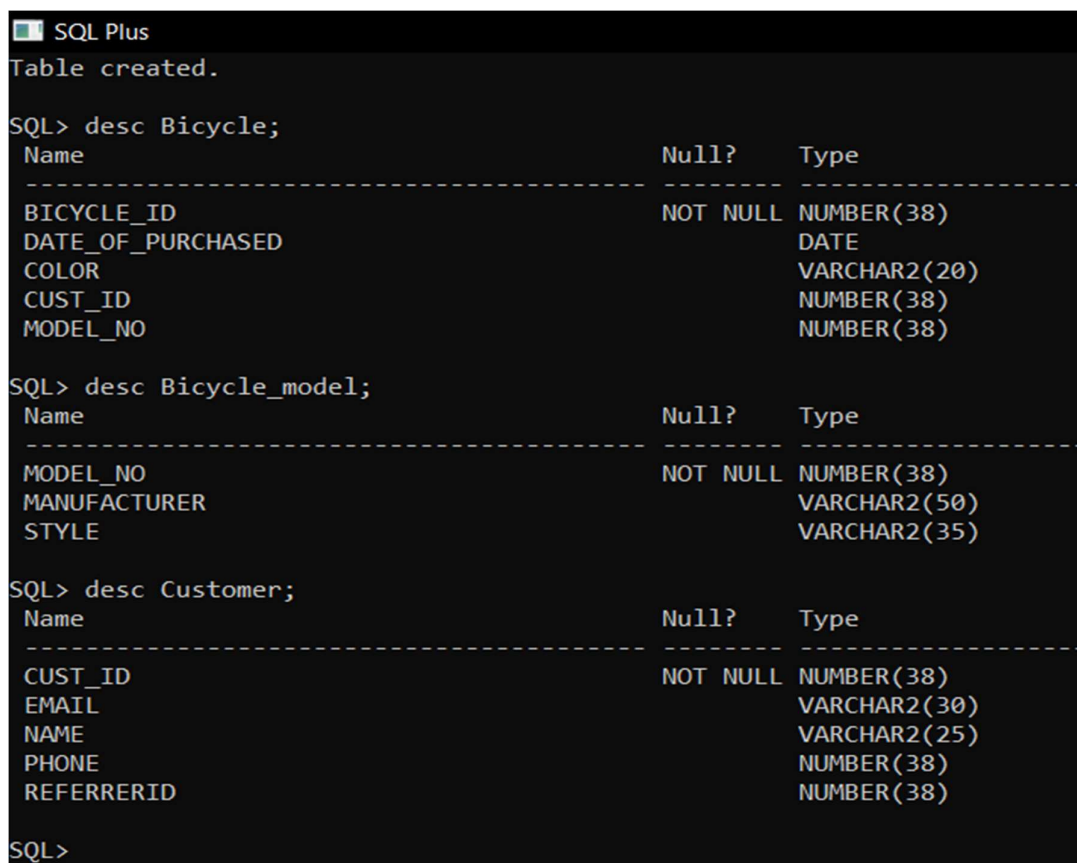
Service(Start_date,Bicycle_id,End_date).

A) Identify primary and foreign keys. Create the tables and insert at least 5 records in each table.

```
SQL> create table Bicycle(Bicycle_id int primary key,Date_of_purchased date,Color
varchar(20),Cust_id int,Model_no int,foreign key (Cust_id) references Customer(cust_id),foreign
key(Model_no)references Bicycle_model(Model_no));
```

```
SQL> create table Bicycle_model(Model_no int primary key, Manufacturer varchar(50),Style
varchar(35));
```

```
create table Customer(Cust_id int primary key ,Email varchar(30) unique ,Name varchar(25),Phone
int,Referrerid int);
```



```
SQL Plus
Table created.

SQL> desc Bicycle;
Name                                Null?    Type
-----
BICYCLE_ID                          NOT NULL NUMBER(38)
DATE_OF_PURCHASED                   DATE
COLOR                               VARCHAR2(20)
CUST_ID                             NUMBER(38)
MODEL_NO                            NUMBER(38)

SQL> desc Bicycle_model;
Name                                Null?    Type
-----
MODEL_NO                            NOT NULL NUMBER(38)
MANUFACTURER                        VARCHAR2(50)
STYLE                               VARCHAR2(35)

SQL> desc Customer;
Name                                Null?    Type
-----
CUST_ID                             NOT NULL NUMBER(38)
EMAIL                               VARCHAR2(30)
NAME                                VARCHAR2(25)
PHONE                               NUMBER(38)
REFERRERID                          NUMBER(38)

SQL>
```

- **Primary key** :- Bicycle_id for Bicycle and Cust_id for Customer and Model_no for cycle_model.
- **Foreign Key** :- Cust_id ,Model_no for Bicycle.

```

SQL> insert into Customer values (212,'sujee7@gmail.com','Sujeet',790580,20);
SQL> insert into Customer values (213,'tut7@gmail.com','Ajeet',980580,10);
SQL> insert into Customer values (214,'rut7@gmail.com','Amit',890580,15);
SQL> insert into Customer values (215,'st7@gmail.com','Smit',832580,85);
SQL> insert into Customer values (205,'stt7@gmail.com','Satu',832380,715);

```

```
SQL> select *from Customer;
```

CUST_ID	EMAIL	NAME	PHONE
212	sujee7@gmail.com	Sujeet	790580
213	tut7@gmail.com	Ajeet	980580
214	rut7@gmail.com	Amit	890580
215	st7@gmail.com	Smit	832580
205	stt7@gmail.com	Satu	832380

```

SQL> insert into Bicycle_model values (77,'Honda','Ranger');
SQL> insert into Bicycle_model values (87,'Honda','Ranger');
SQL> insert into Bicycle_model values (87,'Honda','Ranger');
SQL> insert into Bicycle_model values (197,'Anvo',' Sports' );
SQL> insert into Bicycle_model values (117,'Hero',' Sports' );

```



```
SQL> select *from Bicycle_model;
```

```
MODEL_NO MANUFACTURER
```

```
-----  
STYLE
```

```
-----  
77 Honda  
Ranger
```

```
87 Honda  
Ranger
```

```
97 Anvo  
Sports
```

```
MODEL_NO MANUFACTURER
```

```
-----  
STYLE
```

```
-----  
197 Anvo  
Sports
```

```
117 Hero  
Sports
```

Create the new table Service Start date and End date of the Service .

```
SQL> create table Service(Start_date date,Bicycle_id int primary key,End_date date);
```

```
SQL> insert into Service values('12/jan/2000',100,'12/jan/2001');
```

```
SQL> insert into Service values('13/jan/2000',101,'13/jan/2001');
```

```
SQL> insert into Service values('14/jan/2000',102,'14/jan/2001');
```

```
SQL> insert into Service values('15/jan/2000',103,'15/jan/2001');
```

```
SQL> insert into Service values('16/jan/2000',104,'16/jan/2001');
```

```
SQL Plus
1 row created.

SQL> select *from Service;

START_DAT BICYCLE_ID END_DATE
-----
12-JAN-00      100 12-JAN-01
13-JAN-00      101 13-JAN-01
14-JAN-00      102 14-JAN-01
15-JAN-00      103 15-JAN-01
16-JAN-00      104 16-JAN-01

SQL> _
```