**Project**

**On**

**“BLOOD BANK MANAGEMENT SYSTEM”**

* ***Team Strength*** *:* 4
* ***Team members***:-

|  |  |
| --- | --- |
| **Member’s Name** | **Roll No.** |
| **Dnyaneshwar Kanpurne(GL)** | **1124** |
| **Mayur Kharatmal** | **1128** |
| **Sanjay Gupta** | **1118** |
| **Rahul Gitte** | **1117** |

***PROJECT GUIDE:- “*Mrs. Ashwini Joshi”**

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**Project Scope**

We will be keeping a/c of the blood quantity in the blood bank which will be main aim of our of project.We will be keeping detail information about donor as well as the recepient in our blood bank.The blood which is received from blood donation camp is separately keep arraged or kept in the database.

This will help the blood bank system to keep all the records regarding donor ,recepient and blood stock.Blood Bank Management database maintains the day to day transaction in a Blood Bank. The database helps to register all the donor, Blood collection detail, blood issue detail etc.

**Objective:-**

The main objective of this application is to automate the complete operation of Blood Bank. The database in the Blood Bank system maintain the hundreds and thousand record.

**Blood Groups are:-**

1)”AB+”

2)”AB-”

3)”A+”

4) ”A­-”

5) ”B+”

6) ”B-”

7) ”O+”

8) ”O-”

The above are the groups of blood which are used in our blood bank management system

According to above blood groups.

**PROJECT REQUIREMENTS**

**Hardware:-**

P4 or Higher Version Processor

Min 5GB of free HDD space

1GB RAM

**Software:-**

Oracle 9i or 10g

Microsoft Office 2007

**ER DIAGRAM:-**



**1)STAFF DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| S\_ID | NOT NULL | VARCHAR(20) |
| S\_NAME |  | VARCHAR(20) |
| S\_ADDR |  | VARCHAR(30) |
| S\_PHONE |  | VARCHAR(20) |

**2)DOCTOR DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| DOC\_ID | NOT NULL | VARCHAR2(5) |
| S\_ID |  | VARCHAR2(20) |
| DOC\_NAME |  | VARCHAR2(20) |
| DOC\_ADD |  | VARCHAR2(30) |
| DOC\_PHONE |  | VARCHAR2(10) |

**3)DONOR DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| DON\_ID | NOT NULL | VARCHAR2(10) |
| CAMP\_ID |  | VARCHAR2(10) |
| DON\_NAME |  | VARCHAR2(30) |
| DON\_ADD |  | VARCHAR2(40) |
| DOC\_AGE |  | VARCHAR2(5) |

**4)HOSPITAL DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| HOSP\_ID | NOT NULL | VARCHAR2(5) |
| HOSP\_NAME |  | VARCHAR2(20) |
| HOSP\_ADD |  | VARCHAR2(30) |
| HOSP\_PHONE |  | VARCHAR2(10) |

**4)CAMP DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| CAMP\_ID | NOT NULL | VARCHAR2(5) |
| S\_ID |  | VARCHAR2(5) |
| DOC\_ID |  | VARCHAR2(5) |
| CAMP\_NAME |  | VARCHAR2(20) |
| CAMP\_ADD |  | VARCHAR2(30) |
| DOC\_AGE |  | DATE |

**5)TEST DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| TEST\_ID | NOT NULL | VARCHAR2(5) |
| DOC\_ID |  | VARCHAR2(5) |
| DON\_ID |  | VARCHAR2(5) |
| TEST\_RESULT |  | VARCHAR2(30) |

**6)CAMP COLLECTION DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| BG\_GROUP | NOT NULL | VARCHAR2(5) |
| S\_ID |  | VARCHAR2(5) |
| CAMP\_ID |  | VARCHAR2(5) |
| BG\_QTY |  | VARCHAR2(10) |

**7) RECEPEINT DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| REQ\_ID | NOT NULL | VARCHAR2(5) |
| S\_ID |  | VARCHAR2(5) |
| HOS\_ID |  | VARCHAR2(5) |
| DATE\_PURCHASE |  | VARCHAR2(10) |

**8) STOCK DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| STOCK\_ID | NOT NULL | VARCHAR2(5) |
| BG\_GROUP |  | VARCHAR2(5) |
| QTY |  | VARCHAR2(5) |
| DATE\_OF\_EXP |  | DATE |

**9) BILL DETAIL**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| BILL\_ID | NOT NULL | VARCHAR2(5) |
| REQ\_ID |  | VARCHAR2(5) |
| HOSP\_ID |  | VARCHAR2(5) |
| BILL\_DATE |  | DATE |

**10)BILL1 CALCULATE**

|  |  |  |
| --- | --- | --- |
| Name |  | Type |
| BILL\_ID | NOT NULL | VARCHAR2(5) |
| BG\_GRP |  | VARCHAR2(5) |
| QTY |  | NUMBER(5) |
| PRICE |  | NUMBER(10) |
| TOTAL\_AMT |  | NUMBER(10) |

**NORMALISATION**

***1NF:-***

**Rule:-**

When a table is decomposed into different dimensional table with all repeating group of data eliminate, the table data is said to be first normal form

|  |  |
| --- | --- |
| **Repeating attributes** | **Non repeating attributes** |
| S\_NAME | S\_ID |
| DON\_NAME | S\_ADDR |
| DON\_AGE | S\_PHONE |
| QTY | DON\_ID |
| DATE\_OF\_EXP | DON\_ADD |
| REQ\_NAME | CAMP\_ID |
| DATE\_OF\_PURCHASE |  DON\_PHONE |
| TEST\_RESULT |  STOCK\_ID |
| BILL\_DATE | BG\_GROUP |
| PRICE | REQ\_ID |
| TOTAL\_AMT | HOS\_ID |
| BG\_GROUP | TEST\_ID |
| BG\_QTY | DOC\_ID |
| CAMP\_NAME | DON\_ID |
| CAMP\_ADD | BILL\_ID |
| CAMP\_DATE | REQ\_ID |
| DOC\_NAME | DOC\_ADD |
|  | DOC\_PHONE |
|  | HOSP\_ADD |
|  | HOSP\_PHONE |
|  | HOSP\_ID |

***2NF:-***

**Rule:-**

A table is said to be in its second normal form when each record in the table is in first normal form from and each column in the record is fully dependency on the primary key.

**Staff Detail:-**

|  |  |
| --- | --- |
| **Staff Detail** | **Key** |
| S\_ID | PRIMARY KEY |
| S\_NAME |  |
| S\_ADDR |  |
| S\_PHONE |  |

***Donor Detail:-***

|  |  |
| --- | --- |
| **Donor Detail** | **Key** |
| DON\_ID | PRIMARY KEY |
| DON\_NAME |  |
| CAMP\_ID |  |
| DON\_ADD |  |
| DON\_AGE |  |
| DON\_PHONE |  |

***Stock Detail:-***

|  |  |
| --- | --- |
| **Stock Detail** | **Key** |
| STOCK\_ID | PRIMARY KEY |
| BG\_GROUP |  |
| QTY |  |
| DATE\_OF\_EXP |  |

***Recipent Detail:-***

|  |  |
| --- | --- |
| **Recipent detail** | **Key** |
| REQ\_ID | PRIMARY KEY |
| HOS\_ID |  |
| S\_ID |  |
| DATE\_PURCHASE |  |

***Test Detail:-***

|  |  |
| --- | --- |
| **Test Detail** | **Key** |
| TEST\_ID | PRIMARY KEY |
| DOC\_ID |  |
| DON\_ID |  |
| TEST\_RESULT |  |

***Blood Bill Detail:-***

|  |  |
| --- | --- |
| **Blood Bill detail** | **Key** |
| BILL\_ID | PRIMARY KEY |
| REQ\_ID |  |
| HOSP\_ID |  |
| BILL\_DATE |  |

***Bill Calculate:-***

|  |  |
| --- | --- |
| **Bill Calculate** | **Key** |
| BILL\_ID |  |
| BG\_GROUP | PRIMARY KEY |
| QTY |  |
| PRICE |  |
| TOTAL\_AMT |  |

***Camp Collection:-***

|  |  |
| --- | --- |
| **Camp Collection** | **Key** |
| BG\_GROUP |  |
| CAMP\_ID | PRIMARY KEY |
| S\_ID |  |
| BG\_QTY |  |

***Camp Detail:-***

|  |  |
| --- | --- |
| **Camp Detail** | **Key** |
| CAMP\_ID | PRIMARY KEY |
| S\_ID |  |
| DOC\_ID |  |
| CAMP\_NAME |  |
| CAMP\_ADD |  |
| CAMP\_DATE |  |

***Doctor Detail:-***

|  |  |
| --- | --- |
| **Doctor Detail** | **Key** |
| DOC\_ID | PRIMARY KEY |
| S\_ID |  |
| DOC\_NAME |  |
| DOC\_ADD |  |
| DOC\_PHONE |  |

***Hospital Detail:-***

|  |  |
| --- | --- |
| **Hospital Detail** | **Key** |
| HOSP\_ID | PRIMARY KEY |
| HOSP\_NAME |  |
| HOSP\_ADD |  |
| HOSP\_PHONE |  |

***3NF:-***

**Rule:-**

Table data is said to be in 3rd normal form when all transitive dependencies are removed from this data

The table is in 3rd normal form if

Its in second normal form

Its contains no transitive dependencies (when a non-key attribute is dependent on other non-key attribute)

**Staff Detail:-**

|  |  |
| --- | --- |
| **Staff Detail** | **Key** |
| S\_ID | PRIMARY KEY |
| S\_NAME |  |
| S\_ADDR |  |
| S\_PHONE |  |

***Donor Detail:-***

|  |  |
| --- | --- |
| **Donor Detail** | **Key** |
| DON\_ID | PRIMARY KEY |
| DON\_NAME |  |
| CAMP\_ID | FOREIGN KEY |
| DON\_ADD |  |
| DON\_AGE |  |
| DON\_PHONE |  |

***Stock Detail:-***

|  |  |
| --- | --- |
| **Stock Detail** | **Key** |
| STOCK\_ID | PRIMARY KEY |
| BG\_GROUP |  |
| QTY |  |
| DATE\_OF\_EXP |  |

***Recipent Detail:-***

|  |  |
| --- | --- |
| **Recipent detail** | **Key** |
| REQ\_ID | PRIMARY KEY |
| Recipent name |  |
| HOS\_ID | FOREIGN KEY |
| S\_ID | FOREIGN KEY |
| DATE\_PURCHASE |  |

***Test Detail:-***

|  |  |
| --- | --- |
| **Test Detail** | **Key** |
| TEST\_ID | PRIMARY KEY |
| DOC\_ID | FOREIGN KEY |
| DON\_ID | FOREIGN KEY |
| TEST\_RESULT |  |

***Blood Bill Detail:-***

|  |  |
| --- | --- |
| **Blood Bill detail** | **Key** |
| BILL\_ID | PRIMARY KEY |
| REQ\_ID | FOREIGN KEY |
| HOSP\_ID | FOREIGN KEY |
| BILL\_DATE |  |

***Bill Calculate:-***

|  |  |
| --- | --- |
| **Bill Calculate** | **Key** |
| BILL\_ID | FOREIGN KEY |
| BG\_GROUP |  |
| QTY |  |
| PRICE |  |
| TOTAL\_AMT |  |

***Camp Collection:-***

|  |  |
| --- | --- |
| **Camp Collection** | **Key** |
| BG\_GROUP |  |
| CAMP\_ID | FOREIGN KEY |
| S\_ID | FOREIGN KEY |
| BG\_QTY |  |

***Camp Detail:-***

|  |  |
| --- | --- |
| **Camp Detail** | **Key** |
| CAMP\_ID | PRIMARY KEY |
| S\_ID | FOREIGN KEY |
| DOC\_ID | FOREIGN KEY |
| CAMP\_NAME |  |
| CAMP\_ADD |  |
| CAMP\_DATE |  |

***Doctor Detail:-***

|  |  |
| --- | --- |
| **Doctor Detail** | **Key** |
| DOC\_ID | PRIMARY KEY |
| S\_ID | FOREIGN KEY |
| DOC\_NAME |  |
| DOC\_ADD |  |
| DOC\_PHONE |  |

***Hospital Detail:-***

|  |  |
| --- | --- |
| **Hospital Detail** | **Key** |
| HOSP\_ID | PRIMARY KEY |
| HOSP\_NAME |  |
| HOSP\_ADD |  |
| HOSP\_PHONE |  |

**QUERIES:-**

**CREATE:-**

**STAFF\_DETAIL:-**

 create table staff\_detail(

 s\_id varchar2(10) primary key,

 s\_name varchar2(20),

 s\_addr varchar2(30),

 s\_phone varchar2(10));

**DOCTOR\_DETAIL:-**

 create table doctor\_detail(

 doc\_id varchar2(5) primary key,

 s\_id varchar2(10) REFERENCES staff\_detail(s\_id),

 doc\_name varchar2(20),

 doc\_add varchar2(30),

 doc\_phone varchar2(10));

**HOSPITAL\_DETAIL:-**

create table hospital\_detail(

 hosp\_id varchar2(5) primary key,

 hosp\_name varchar2(20),

 hosp\_add varchar2(30),

 hosp\_phone varchar2(10));

**CAMP\_DETAIL:-**

create table camp\_detail(

 camp\_id varchar2(5),

 s\_id varchar2(5),

 doc\_id varchar2(5),

 camp\_name varchar2(20),

 camp\_add varchar2(30),

 camp\_date date,

 primary key(camp\_id),

 foreign key(s\_id) references staff\_detail(s\_id),

 foreign key(doc\_id) references doctor\_detail(doc\_id));

**DONOR\_DETAIL:-**

 create table donor\_detail(

 don\_id varchar2(10) primary key,

 camp\_id varchar2(10) references camp\_detail(camp\_id),

 don\_name varchar2(30),

 don\_add varchar(40),

 don\_age varchar2(5) CONSTRAINT ckyq CHECK (don\_age>18),

 don\_phone varchar2(10));

**TEST\_DETAIL:-**

 create table test\_detail(

 test\_id varchar2(5),

 doc\_id varchar2(5),

 don\_id varchar2(5),

 test\_result varchar2(30),

 primary key(test\_id),

 foreign key(doc\_id) references doctor\_detail(doc\_id),

 foreign key(don\_id) references donor\_detail(don\_id));

**CAMP\_COLLECTION:-**

 create table camp\_collection(

 bg\_group varchar2(5) CONSTRAINT ck CHECK(bg\_group IN

 ( 'A+','A-','B+','B-','AB+','AB-','O+','O-')),

 camp\_id varchar2(5) references camp\_detail(camp\_id),

 s\_id varchar2(10) references staff\_detail(s\_id),

 bg\_qty varchar2(10));

**RECEPIENT\_DETAIL:-**

 create table recepient(

 req\_id varchar2(5),

 hos\_id varchar2(5),

 s\_id varchar2(5),

 date\_purchase date,

 primary key(req\_id),

 foreign key(hos\_id) references hospital\_detail(hosp\_id),

 foreign key(s\_id) references staff\_detail(s\_id));

**STOCK\_DETAIL:-**

 create table stock\_detail(

 stock\_id varchar2(5) ,

 bg\_group varchar2(5) primary key,

 qty varchar(5),

 date\_of\_exp date);

**BILL1\_DETAIL:-**

 create table bill1\_detail(

 bill\_id varchar2(5) primary key,

 req\_id varchar2(5),

 hosp\_id varchar2(5),

 bill\_date date,

 foreign key(req\_id) references recepient(req\_id),

 foreign key(hosp\_id) references hospital\_detail(hosp\_id));

**BILL1\_CALCULATE:-**

create table bill1\_calculate(

 bill\_id varchar2(5),

 bg\_group varchar2(5) primary key,

 qty number(5),

 price number(10),

 total\_amt number(10));

**INSERT:-**

**STAFF\_DETAIL:-**

insert into staff\_detail values('s1','mayur kharatmal','kalewadi Pune','9890986767');

insert into staff\_detail values('s2','rahul gitte','warje Pune','7788554846');

insert into staff\_detail values('s3','Vikas datir','maruti Pune','9890655689');

insert into staff\_detail values('s4','gaurav','Sangavi Pune','7788888890');

insert into staff\_detail values('s5','sanjay',' Pune station','9945787976');

insert into staff\_detail values('s6','meher yogesh','Decan Pune','9545215262');

insert into staff\_detail values('s7','Sriraj patil','Kothrud Pune','9209599591');

insert into staff\_detail values('s8','amit ','khotenagar jalgaon','9403384895');

insert into staff\_detail values('s9','akshara','Deccan Pune','9970223489');

insert into staff\_detail values('s10','tushar khachane','Chinchwad Pune','9960889566');

**DOCTOR\_DETAIL:-**

insert into doctor\_detail values('d11','s1','Rajesh ','Pune','9021457878');

insert into doctor\_detail values('d12','s5','ashok ','Nasik','7722245274');

insert into doctor\_detail values('d13','s3','Sagar ','mumbai','7878412778');

insert into doctor\_detail values('d14','s1','rahul','40gaon','9860124587');

insert into doctor\_detail values('d21','s2','manish','jalgaon','8645721458');

insert into doctor\_detail values('d22','s7','parag','Satara','9895657485');

insert into doctor\_detail values('d23','s3','vijay','Kolaha','9256868940');

insert into doctor\_detail values('d24','s2','bharat','Nagpurr','8657425785');

insert into doctor\_detail values('d31','s9','Santosh ','bhusawal','9685742342');

insert into doctor\_detail values('d32','s4','nilesh','40gaon','9758888568');

**HOSPITAL\_DETAIL:-**

insert into hospital\_detail values('ho11','raj Hospital','jalgaon','9411454016');

insert into hospital\_detail values('ho12','gaurav Hospital','jalgaon','9860458364');

insert into hospital\_detail values('ho13','ganesh Hospital','Pune','9656873164');

insert into hospital\_detail values('ho14','Mayur Hospital','mumbai','9272788888');

insert into hospital\_detail values('ho15','swati Hospital','dhule','9158797456');

insert into hospital\_detail values('ho16','Poonam Hospital','Pune','9935789878');

insert into hospital\_detail values('ho17','Sanjiwani Hospital','Pune','9403384895');

insert into hospital\_detail values('ho18','Susmita Hospital','40gaon','9657787878');

insert into hospital\_detail values('ho19','Kamala Hospital','pachora','8956746823');

insert into hospital\_detail values('ho20','Nachiket Hospital','manesh','9993659417');

**CAMP\_DETAIL:-**

insert into camp\_detail values('cmp1','s1','d11','Blood Donation','Pune','18-jan-2012');

insert into camp\_detail values('cmp2','s6','d12','Blood Donation','Pune','15-jul-2011');

insert into camp\_detail values('cmp3','s4','d13','Blood Donation','Nasik','2-may-2011');

insert into camp\_detail values('cmp4','s1','d14','Blood Donation','Pune','3-feb-2012');

insert into camp\_detail values('cmp5','s2','d21','Blood Donation','Pune','25-jul-2011');

insert into camp\_detail values('cmp6','s5','d22','Blood Donation','Pune','5-nov-2011');

insert into camp\_detail values('cmp7','s2','d23','Blood Donation','Pune','26-feb-2011');

insert into camp\_detail values('cmp8','s2','d24','Blood Donation','Pune','24-jul-2010');

insert into camp\_detail values('cmp9','s8','d31','Blood Donation','Pune','19-aug-2010');

insert into camp\_detail values('cmp10','s7','d32','Blood Donation','Pune','6-sep-2011');

**DONOR\_DETAIL:-**

insert into donor\_detail values('don1','cmp1','mayur kharatmal','kalewadi Pune','23','9890986767');

insert into donor\_detail values('don2','cmp1','rahul gitte','warje Pune','22','7788554846');

insert into donor\_detail values('don3','cmp1','Vikas datir','maruti Pune','19','9890655689');

insert into donor\_detail values('don4','cmp1','gaurav','Sangavi Pune','22','7788888890');

insert into donor\_detail values('don5','cmp2','Sriraj patil','Kothrud Pune','25','9209599591');

insert into donor\_detail values('don6','cmp2','akshara','Deccan Pune','19','9970223489');

insert into donor\_detail values('don7','cmp2','tushar khachane','Chinchwad Pune','22','9960889566');

insert into donor\_detail values('don8','cmp2','Raju Kadam','Pune','19','9368432546');

insert into donor\_detail values('don9','cmp3','Samadhan Pawar','Chandwad','20','9868584512');

insert into donor\_detail values('don10','cmp3','Akash Patil','Malegaon','25','9960451356');

**TEST\_DETAIL:-**

insert into test\_detail values('tes1','d11','don1','-ve');

insert into test\_detail values('tes2','d14','don2','-ve');

insert into test\_detail values('tes3','d21','don3','-ve');

insert into test\_detail values('tes4','d14','don4','-ve');

insert into test\_detail values('tes5','d31','don5','-ve');

insert into test\_detail values('tes6','d12','don6','-ve');

insert into test\_detail values('tes7','d11','don7','+ve');

insert into test\_detail values('tes8','d32','don8','-ve');

insert into test\_detail values('tes9','d22','don9','+ve');

insert into test\_detail values('tes10','d22','don10','-ve');

**CAMP\_COLLECTION:-**

insert into camp\_collection values('B+','cmp1','s1',25);

insert into camp\_collection values('AB+','cmp10','s1',25);

insert into camp\_collection values('A+','cmp7','s1',20);

insert into camp\_collection values('O+','cmp5','s3',20);

insert into camp\_collection values('B+','cmp5','s2',20);

insert into camp\_collection values('AB+','cmp6','s2',20);

insert into camp\_collection values('A+','cmp7','s3',25);

insert into camp\_collection values('O+','cmp3','s5',30);

insert into camp\_collection values('B+','cmp3','s7',10);

insert into camp\_collection values('AB+','cmp3','s9',15);

insert into camp\_collection values('A+','cmp6','s10',10);

insert into camp\_collection values('O+','cmp5','s10',25);

insert into camp\_collection values('B+','cmp8','s4',15);

insert into camp\_collection values('AB+','cmp4','s4',10);

insert into camp\_collection values('A+','cmp8','s2',20);

insert into camp\_collection values('O+','cmp3','s4',20);

**RECEPIENT\_DETAIL:-**

insert into recepient values('r1','ho11','s1','25-jan-2012');

insert into recepient values('r2','ho12','s5','25-jan-2012');

insert into recepient values('r3','ho13','s10','2-mar-2012');

insert into recepient values('r4','ho14','s1','2-may-2011');

insert into recepient values('r5','ho15','s9','5-may-2011');

insert into recepient values('r6','ho16','s2','17-jan-2012');

insert into recepient values('r7','ho17','s2','21-jun-2011');

insert into recepient values('r8','ho18','s7','2-apr-2011');

insert into recepient values('r9','ho19','s6','27-may-2011');

insert into recepient values('r10','ho20','s3','5-jun-2011');

insert into recepient values('re11','ho11','s4','2-feb-2012');

**STOCK\_DETAIL:-**

insert into stock\_detail values('s3','B+',20,'2-jun-2012');

insert into stock\_detail values('s2','AB+',10,'20-apr-2012');

insert into stock\_detail values('s4','O+',15,'23-apr-2012');

insert into stock\_detail values('s7','A+',10,'13-apr-2012');

**BILL1\_DETAIL:-**

insert into bill1\_detail values('b001','r1','ho11','26-jan-2012');

insert into bill1\_detail values('b002','r9','ho19','6-jan-2012');

insert into bill1\_detail values('b003','r2','ho12','1-jan-2012');

insert into bill1\_detail values('b004','r2','ho12','3-jan-2012');

insert into bill1\_detail values('b005','r3','ho13','2-mar-2012');

insert into bill1\_detail values('b006','r4','ho13','2-mar-2012');

insert into bill1\_detail values('b007','r4','ho14','2-nov-2011');

insert into bill1\_detail values('b008','r7','ho14','2-aug-2011');

insert into bill1\_detail values('b009','r5','ho15','7-dec-2011');

insert into bill1\_detail values('b010','r1','ho18','27-may-2011');

**BILL1\_CALCULATE:-**

insert into bill1\_calculate values('b001','AB+',5,150,450);

insert into bill1\_calculate values('b002','O+',5,200,1000);

insert into bill1\_calculate values('b006','B-',7,150,1050);

insert into bill1\_calculate values('b007','A-',7,150,1050);

insert into bill1\_calculate values('b009','B+',10,150,1500);

insert into bill1\_calculate values('b010','AB-',10,150,1050);

**1)Display the list of staff working in “kothrud pune”**

SQL> select \*from staff\_detail

 2 where s\_addr='Kothrud Pune';

**2)display the record of staff whose s\_id in doctor where doctor name="rahul"**

 SQL> select \*from staff\_detail

 2 where s\_id=(select s\_id from doctor\_detail

 3 where doc\_name='rahul');

**3)Display the list hospitals which are located in “pune”**

SQL> select \*from hospital\_detail

 2 where hosp\_add='Pune';

**4)Find out the details of camp which occurred on “03-feb-12”**

SQL> select \*from camp\_detail

 2 where camp\_date='03-FEB-12';

**5)display the record of donar in test\_detail where don-id=don1**

SQL> select \*from donor\_detail

 2 where don\_id=(select don\_id from test\_detail where don\_id='don1');

**6)Display the list of all donors whose age group does not belong to 20 to 30**

SQL> select \*from donor\_detail

 2 where don\_age not between 20 and 30;

**7)display recepient detail where req\_id present in recepient but not present in bill1\_detail**

SQL> select \*from recepient

 2 where req\_id in

 3 (select req\_id from recepient

 4 minus

 5 select req\_id from bill1\_detail);

**8)Combine and display two columns using “UNION”**

SQL> select s\_name from staff\_detail

 2 union

 3 select doc\_name from doctor\_detail;

**9)Combine and display two columns using “INTERSECT”**

SQL> select s\_name from staff\_detail

 2 intersect

 3 select doc\_name from doctor\_detail;

**10)Calculate the Average amount by multiplying qty column with price**

SQL> select count(qty),sum(price),

 2 sum(price)\*count(qty) avg\_qty

 3 from bill1\_calculate;

**11) Display the use of JOIN query**

SQL> select bill1\_detail.bill\_id,bill1\_detail.bill\_date

 2 ,bill1\_calculate.price

 3 from bill1\_detail,bill1\_calculate

 4 where bill1\_detail.bill\_id=bill1\_calculate.bill\_id;

**12)display camp\_id,s\_id,camp\_name,camp\_add from camp\_detail and camp\_date is not between '24-jul-2010' and '1-may-2011'**

SQL> select camp\_id,s\_id,camp\_name,camp\_add from camp\_detail

 2 where camp\_date

 3 not between

 4 '24-jul-2010' and '1-may-2011';

**13) use of Cartesian product**

SQL> select e.test\_id ,e.test\_result , p.stock\_id

 2 from test\_detail e,stock\_detail p;

**14)display the hospital detail whose hosp\_id='ho11' in bill1\_details**

SQL> select \*from hospital\_detail

 2 where hosp\_id=(select hosp\_id from bill1\_detail

 3 where hosp\_id='ho11');

**15)Display the test\_id,test\_result from test\_detail where doc\_id=’d14’**

SQL>select test\_id,test\_result

2 from test\_detail

3 where doc\_id=(select doc\_id from

4 doctor\_detail

5 where doc\_id='d14');

**16)Display the list of doctor whose name is “vijay”**

SQL> select \*from doctor\_detail

 2 where doc\_name='vijay';

**17)Display the list of donors whose age less than 20 years**

SQL> select \*from donor\_detail

 2 where don\_age<20;

**18)Display the list of donors in ascending order according to their age**

SQL> select \*from donor\_detail

 2 order by don\_age asc;

**19)Count the no. of records available in donor details table**

SQL> select count(\*) from donor\_detail;

**20)Display the list of donors in between age group 20 to 30**

SQL> select \*from donor\_detail

 2 where don\_age between 20 and 30;

**21)Display the list of staff employee whose staff id = s1 and s9**

SQL> select \*from staff\_detail

 2 where s\_id in ('s1','s9');

**22) Add Rs. 500 to the column total\_amt in bill calculation**

SQL> select total\_amt,total\_amt+500 from bill1\_calculate;

**23)Calculate the Total of column “Price” in “bill1\_calculate” table**

SQL> select SUM(price) from bill1\_calculate;

**24)Calculate the Average of column “Total\_amt” in “bill1\_calculate” table**

SQL> select avg(total\_amt) from bill1\_calculate;

**25)Display the list of staff in which ‘s\_id’ is not equal to ‘s5’**

SQL> select \*from staff\_detail

 2 where s\_id <> 's5';

**26) Display the list of staff whose name starting from alphabet ‘a’**

SQL> select \*from staff\_detail

 2 where s\_name like '%a';

**27)Display the list in uppercase from staff\_detail table**

SQL> select upper(s\_name) from staff\_detail;

**28)Display the use of Lpadding on s\_name in staff\_detail**

SQL> select lpad(s\_name,30,'.') from staff\_detail;

**29)Display the use of Rpadding on s\_name in staff\_detail table**

SQL> select rpad(s\_name,30,'.') from staff\_detail;

**30) calculate the maximum price**

SQL> select max(price) from bill1\_calculate;

**31) calculate the minimum price**

SQL> select min(price) from bill1\_calculate;

**CONCLUSION**

We Conclude that , In this “Blood Bank Management” Project Work, We have taken up this project to reduce the shortage and wastage of blood in blood banks. With the data obtained from the blood banks we came to know that by providing the optimum inventory model and proper data management and retrieval method will help in reduction of the shortage.

As the demand for a particular blood group varies according to its distribution among the population we used different formula to find maximum and minimum stock level to be maintained for a particular blood group. The data base for maintaining the records of the donor is provided. This database also helps the blood bank to retrieve the records based on the blood groups, personal details of the donor and the date of blood donation.