

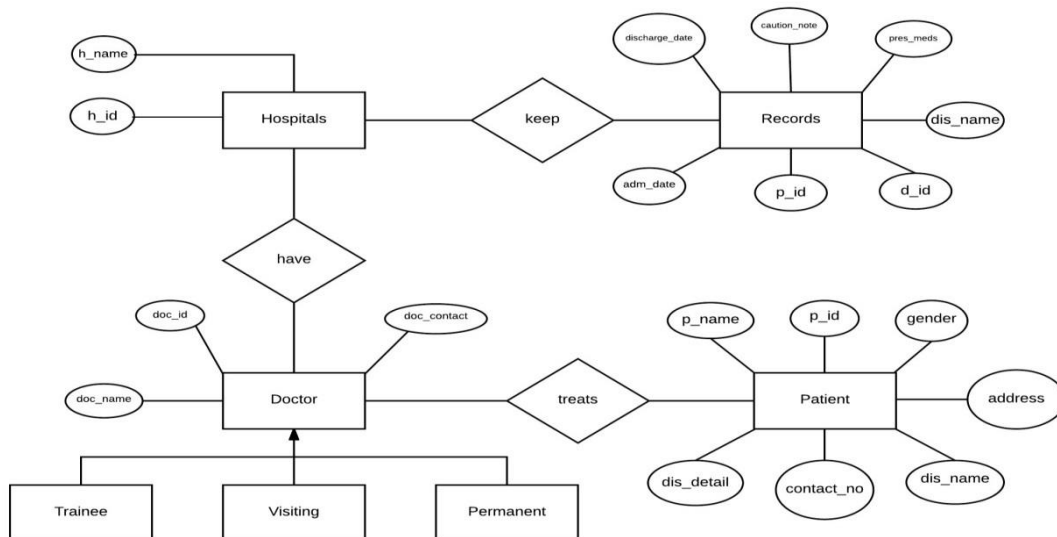
MINI PROJECT – UNIVERSAL PATIENT DATABASE

1) Problem Statement

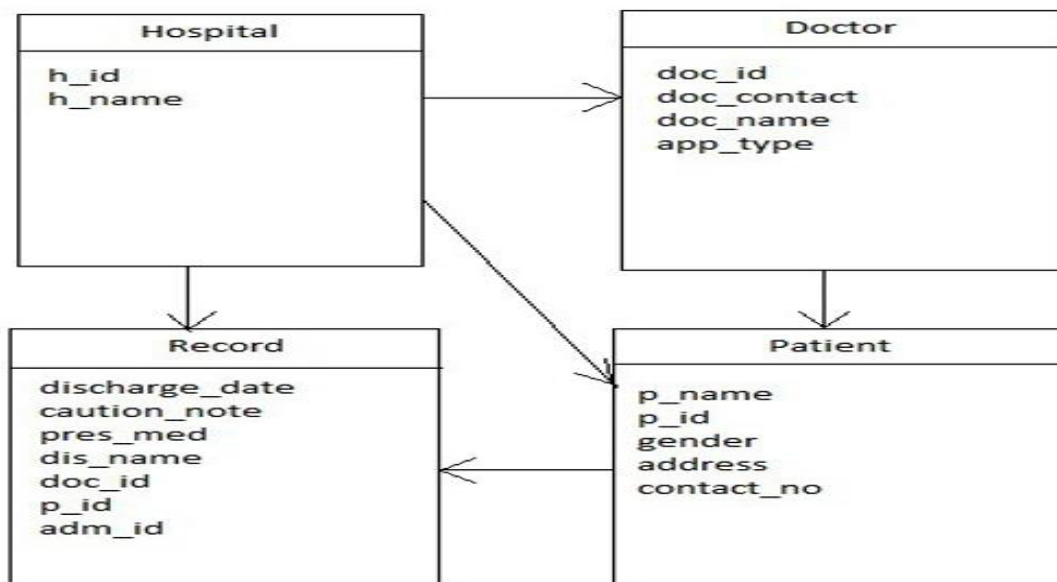
To build a common web based database system which needs to be used by all healthcare units (govt, pvt clinics and hospitals) in India for uniform patient data maintenance.

2) DDB design

EER DIAGRAM



Global Schema for Universal Healthcare Database System



3) Add data, fragmentation and other tasks:

SQL*Plus: Release 11.2.0.1.0 Production on Sat Feb 18 14:30:35 2017

Copyright (c) 1982, 2010, Oracle. All rights reserved.

Enter user-name: d12c_b1@ddb_d12

Enter password:

Connected to:

Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> show user

USER is "D12C_B1"

SQL> desc Doctor

Name	Null?	Type
H_ID	NOT NULL	NUMBER(38)
H_NAME		VARCHAR2(20)

SQL> conn

Enter user-name: d12c_b18@ddb_d12

Enter password:

Connected.

SQL> create table Doctor1(h_id int primary key, h_name varchar(20));

Table created.

SQL> conn

Enter user-name: d12c_b24@ddb_d12

Enter password:

Connected.

SQL> create table Doctor2(h_id int primary key, h_name varchar(20));

Table created.

SQL> conn

Enter user-name: d12c_b1@ddb_d12

Enter password:

Connected.

SQL> create or replace trigger temp1 after insert on Doctor for each row begin i
nsert into Doctor1@P1link values (:new.h_id, :new.h_name); insert into Doctor2@D
link values (:new.h_id, :new.h_name);end;
2 /

Trigger created.

SQL> insert into Doctor values(1,'Ankita');

1 row created.

```
SQL> insert into Doctor values(2,'Ankit');
```

1 row created.

```
SQL> select * from Doctor
```

2 /

H_ID	H_NAME
------	--------

1	Ankita
---	--------

2	Ankit
---	-------

```
SQL> select * from Doctor1@P1link
```

2 /

H_ID	H_NAME
------	--------

1	Ankita
---	--------

2	Ankit
---	-------

```
SQL> select * from Doctor2@Dlink
```

2 /

H_ID	H_NAME
------	--------

1	Ankita
---	--------

2	Ankit
---	-------

```
SQL>
```

DDB Exp 3 – Horizontal Fragmentation

Universal Healthcare Database

```
SQL Plus

SQL*Plus: Release 11.2.0.1.0 Production on Sat Feb 11 14:49:50 2017
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: d12c_b1@ddb_d12
Enter password:

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> show user
USER is "D12C_B1"
SQL> create table Patient(p_name varchar(20), p_id int primary key, gender char
(1), address varchar(50), contact_no varchar(10));

Table created.

SQL> desc Patient

```

Name	Null?	Type
P_NAME		VARCHAR2(20)
P_ID	NOT NULL	NUMBER(38)
GENDER		CHAR(1)
ADDRESS		VARCHAR2(50)
CONTACT_NO		VARCHAR2(10)

```

SQL> create public database link Pilink connect to d12c_b18 identified by D12C_B
18 using 'ddb_d12';

Database link created.

SQL> create public database link Dlink connect to d12c_b24 identified by D12C_B
4 using 'ddb_d12';

Database link created.

SQL> conn
Enter user-name: d12c_b18@ddb_d12
Enter password:
Connected.
SQL> create table Malep(p_name varchar(20), p_id int primary key, gender char (1
), address varchar(50), contact_no varchar(10));

Table created.

SQL> conn
Enter user-name: d12c_b24@ddb_d12
Enter password:
Connected.
SQL> create table Femalep(p_name varchar(20), p_id int primary key, gender char
(1), address varchar(50), contact_no varchar(10));

Table created.
```

```

SQL> conn
Enter user-name: d12c_b1@ddb_d12
Enter password:
Connected.
SQL> create or replace trigger temp after insert on Patient for each row when(new
w.gender is not null) begin if:new.gender='M' then insert into Malep@Plink valu
es(:new.p_name, :new.p_id, :new.gender, :new.address, :new.contact_no); else ins
ert into Femalep@Dlink values(:new.p_name, :new.p_id, :new.gender, :new.address,
:new.contact_no); end if;end;
2 /

Trigger created.

SQL> insert into Patient values('Ankita', 1, 'F', 'Chembur', '1234567890');
1 row created.

SQL> insert into Patient values('Ankit', 2, 'M', 'Kharghar', '2234567890');
1 row created.

SQL> select * from Patient
2 /

```

P_NAME	P_ID	G	ADDRESS	CONTACT_NO
Ankita	1	F	Chembur	1234567890
Ankit	2	M	Kharghar	2234567890

```

SQL> select * from Malep@Plink
2 /

```

P_NAME	P_ID	G	ADDRESS	CONTACT_NO
Ankit	2	M	Kharghar	2234567890

```

SQL> select * from Femalep@Dlink
2 /

```

P_NAME	P_ID	G	ADDRESS	CONTACT_NO
Ankita	1	F	Chembur	1234567890

UHD : Vertical Fragmentation

```

SQL> SQL Plus
SQL> SQL*Plus: Release 11.2.0.1.0 Production on Sat Mar 4 13:38:21 2017
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: d12c_b18@ddb_d12
Enter password:
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> show user
USER is "D12C_R1"
SQL> desc Patient

```

Name	Null?	Type
P_NAME		VARCHAR2(20)
P_ID	NOT NULL	NUMBER(38)
GENDER		CHAR(1)
ADDRESS		VARCHAR2(50)
CONTACT_NO		VARCHAR2(10)

```

SQL> conn
Enter user-name: d12c_b18@ddb_d12
Enter password:
Connected.
SQL> create table p_contact(p_id int primary key, address varchar(50), contact_
no varchar
2
SQL> (10),p_name varchar(20));/
2
/
<10),p_name varchar(20));/
*
ERROR at line 1:
ORA-00928: missing SELECT keyword

SQL> create table p_contact(p_id int primary key, address varchar(50), contact_
no varchar(10),p_name varchar(20));
Table created.

SQL> conn
Enter user-name: d12c_b24@ddb_d12
Enter password:
Connected.
SQL> create table p_gender(p_id int primary key, gender char(1));
Table created.

SQL> conn
Enter user-name: d12c_b18@ddb_d12
Enter password:
Connected.
SQL> create or replace trigger temp after insert on Patient for each row begin i
insert into p_contact@Plink values(:new.p_id,:new.address,:new.contact_no,:new.p
_name);insert into p_gender@Blink values(:new.p_id,:new.gender);end;
2
/
Trigger created.

SQL> insert into Patient values('Paresh', 3, 'M', 'Chenbur', '9022298522');
1 row created.

SQL> insert into Patient values('Dinesh', 4, 'M', 'Tilaknagar', '9821798654');
1 row created.

SQL> select * from Patient
2
/

```

P_NAME	P_ID	G	ADDRESS	CONTACT_NO
Paresh	3	M	Chenbur	9022298522
Dinesh	4	M	Tilaknagar	9821798654

```

SQL> select * from p_contact@Plink
2
/

```

P_NAME	P_ID	ADDRESS	CONTACT_NO
Paresh	3	Chenbur	9022298522
Dinesh	4	Tilaknagar	9821798654

```

SQL> select * from p_gender@Blink
2
/

```

P_ID	G
3	M
4	M

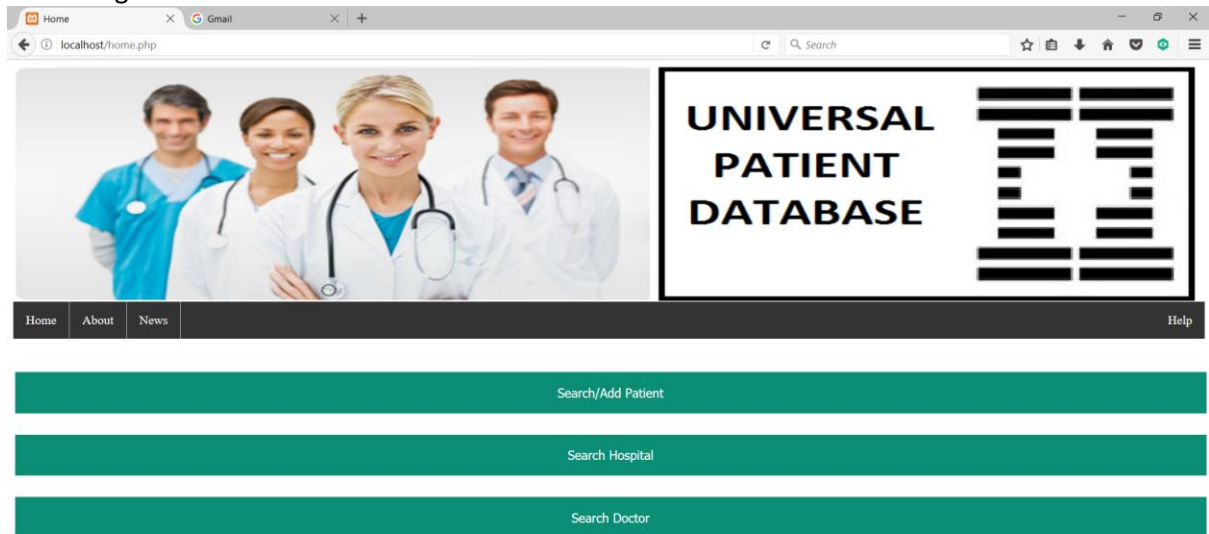
```

SQL>

```

PROJECT IMPLEMENTATION:

Home Page:



Search/Add Patient:



Search Patient:

SearchPatient

localhost/SearchPatient.php

Search

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HomeAboutNewsHelp

Patient Details

Enter Patient ID:

3

Submit Query

Back To Home

Search right here

SearchPatient - Mo...

DDB Mini Project...

01:43 PM
20-04-2017

SearchPatient

localhost/SearchPatient.php

Search

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HomeAboutNewsHelp

Patient Details

Enter Patient ID:

Submit Query

Back To Home

Top

Search right here

SearchPatient - Mo...

DDB Mini Project...

01:42 PM
20-04-2017

Basic Info:

Patient Name	Patient ID	Patient Age	Patient Gender	Patient Address	Patient Contact No	Emergency Contact No	Doctor ID	Hospital ID	Patient Disease	Prescribed Medication	Patient Allergy	Admission Date	Discharge Date
Varun Thakur	3	23	M	Colaba	9546421000	27474500	3	4	Chicken pox	Amoxycillin	Dust	2016-01-01	2016-01-30
Varun Thakur	3	23	M	Colaba	9546421000	27474500	2	4	Malaria	Chloroquine	Dust	2016-03-06	2016-03-15
Varun Thakur	3	23	M	Colaba	9546421000	27474500	7	4	Fever	Frutimol	Dust	2016-06-08	2016-06-10
Varun Thakur	3	23	M	Colaba	9546421000	27474500	10	4	Fever	Frutimol	Dust	2016-08-13	2016-08-17
Varun Thakur	3	24	M	Colaba	9546421000	27474500	6	5	Common Cold	Cetirizine	Dust	2017-01-02	2017-01-04
Varun Thakur	3	24	M	Colaba	9546421000	27474500	2	1	Common Cold	Cetirizine	Dust	2017-04-02	2017-04-04

Add Patient:

Browser: AddPatient | localhost/AddPatient.php



**UNIVERSAL
PATIENT
DATABASE**

Home About News Help

Patient Details

Enter Patient's Name:
Varun Thakur

Enter Patient's ID:
3

Enter Patient's Age:
24

Enter Patient's Gender:
M

Windows taskbar: Search right here | AddPatient - Mozilla... | DDB Mini Project... | 01:45 PM 20-04-2017

Browser: AddPatient | localhost/AddPatient.php

Enter Patient's Address:
Colaba

Enter Patient's Contact:
988989898

Enter Emergency Contact:
988989898

Enter Doctor's ID:
2

Enter Hospital's ID:
1

Enter Patient's Disease(s):
Common Cold

Enter medication(s) prescribed to Patient:
Cetirizine

Enter any allergies observed:
Dust

Enter Admission date:
2017-04-20

Enter Discharge Date:

Top

Windows taskbar: Search right here | AddPatient - Mozilla... | DDB Mini Project... | 01:45 PM 20-04-2017

AddPatient

localhost/AddPatient.php

Search

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Enter Patient's Disease(s):

Common Cold

Enter medication(s) prescribed to Patient:

Cetirizine

Enter any allergies observed:

Dust

Enter Admission date:

2017-04-20

Enter Discharge Date:

2017-04-20

Submit Query

Add Another Patient

Back To Home

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AddPatient - Mozill...

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20-04-2017

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