

Problems Definitions -

→ Lack of immediate retrievals:

- The information is very difficult to retrieve and to find particular information like to find out about the patient's history, the user has to go through various registers. This results in inconvenience and wastage of time.

→ Lack of immediate information storage:

- The information generated by various transactions takes time and efforts to be stored at right place.

→ Lack of prompt updating:

- Various changes to information like patient details or immunization details of child are difficult to make as paper work is involved.

→ Error prone manual calculation:

- Manual calculations are error prone and take a lot of time this may result in incorrect information. For example calculation of patient's bill based on various treatments.

→ Preparation of accurate and prompt reports:

- This becomes a difficult task as information is difficult to collect from various registers.

Solutions:

1. Improved Manual System:-

One of the alternative solutions is the improvement of the manual system. Anything, which can be done by using automated methods, can be done manually. But the question arises how to perform thing manually in a sound manner. Following are some suggestions, which can be useful in the manual system. A more sophisticated register maintenance for various Patient Information, Doctor diary, Immunization Details and a good system for writing bill amount employees and stock availed for the customers can be maintained at central place. Adequate staff may be maintained so that updating are made at the very moment at the same time. Proper person for proper work should be made responsible so that a better efficiency could be achieved. This needs a lot of work force.

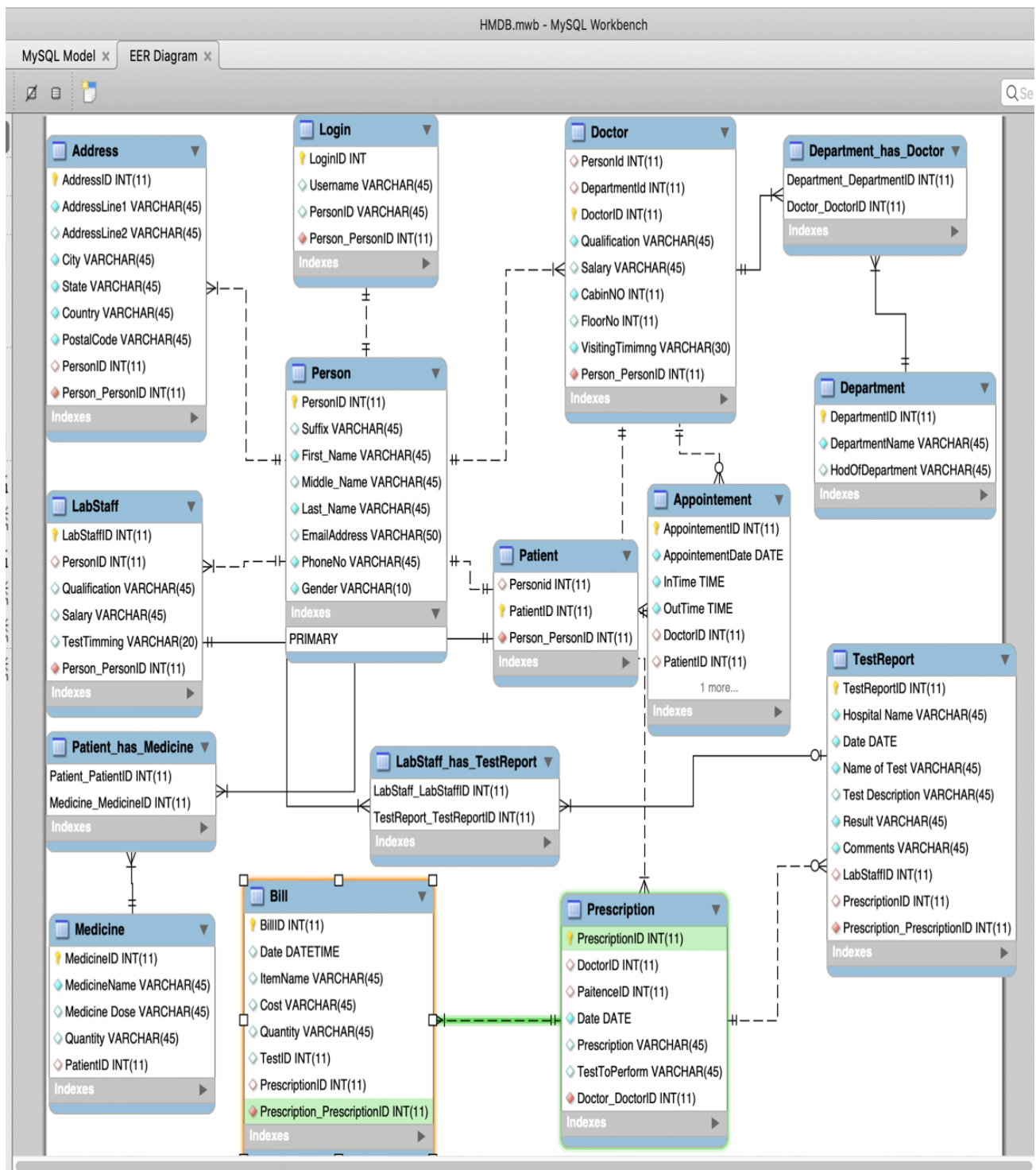
2. Batch System:-

Another alternative solution can be used of computer based batch system for maintaining the information regarding purchase details, customers and employees. A batch system refers to a system in which data is processed in a periodical basis. The batch system is able to achieve most of the goals and sub goals. But a batch system data is processed in sequential basis. Therefore batch system is not suggested.

3. Online System:-

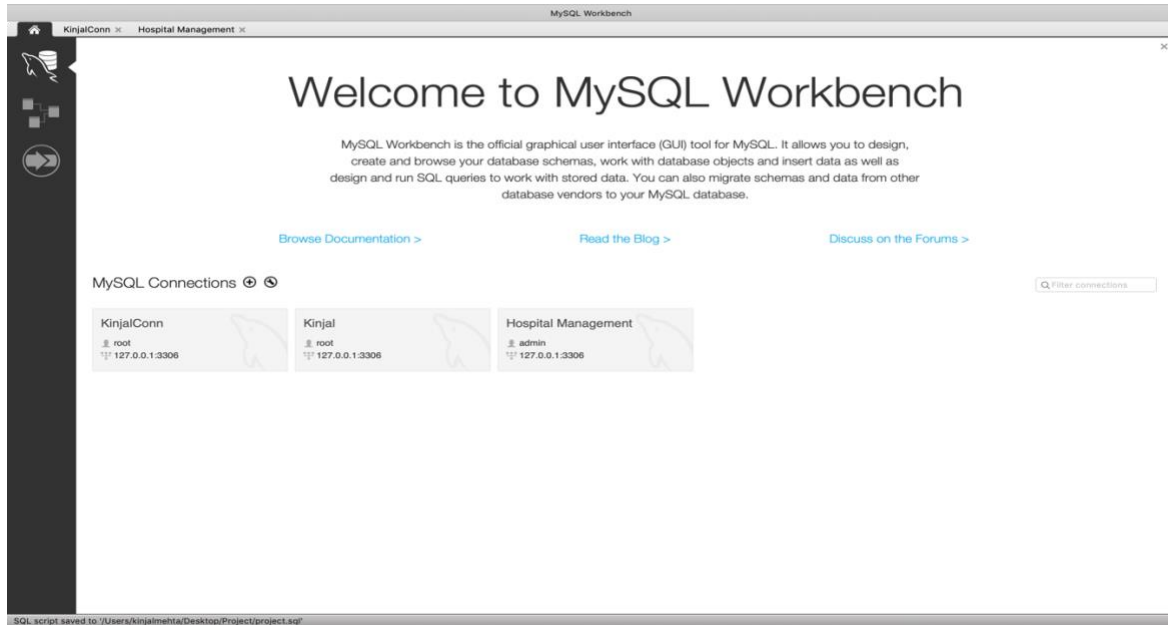
The system provides online storage/ updating and retrieval facility. This system promises very less or no paperwork and also provides help to Doctor and operational staff. In this system everything is stored electronically so very less amount of paperwork is required and information can be retrieved very easily without searching here and there into registers. This system is been discussed here

ER Diagram:



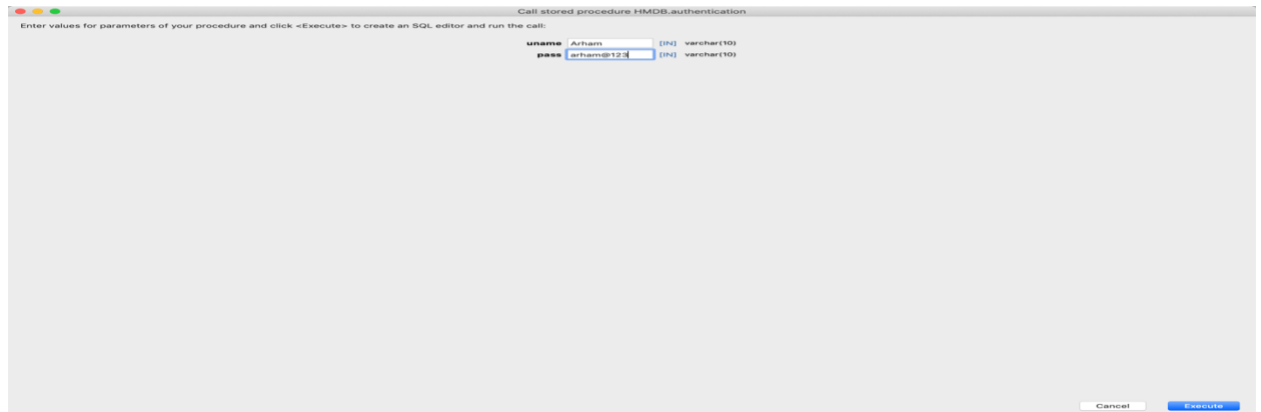
This Database have 1 privilege

Admin:



Project have 3 Special Features:

1. Login is created using stored procedure for doctor.



2. View is created to know the bill of each patient.

MySQL Workbench

KinjalConn x

Administration Schemas project*

Limit to 100 rows

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476 ON TestReport.PrescriptionID = Prescription.PrescriptionID
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MySQL Workbench

KinjalConn x

Administration Schemas Query 1 project*

SCHEMAS

Filter objects

db

HMDB

Tables

Address

Appointment

Bill

Department

Doctor

LabStaff

Medicine

Patient

Person

Prescription

TestReport

Views

billsofpatient

Stored Procedures

Functions

KINJAL

list

managemet

new_schema

policeinformationde...

pubs

student

studentlist

Object Info Session

View: billsofpatient

Columns:

billid int(11)

date datetime

itemname varchar(45)

cost varchar(45)

Query Completed

Limit to 100 rows

-- views on bill

```
CREATE
ALGORITHM = UNDEFINED
DEFINER = 'root'@'localhost'
SQL SECURITY DEFINER
VIEW patientbill AS
SELECT
bill , billid AS 'billid' ,
bill , Date AS 'date' ,
testreport , HospitalName AS 'HOSPITALNAME' ,
testreport , NameofTest AS 'NAMEOFREPORT' ,
testreport , Result AS 'result' ,
bill , itemname AS 'itemname' ,
bill , Cost AS 'cost' ,
bill , Quantity AS 'quantity'
FROM
( bill
JOIN testreport ON (( bill . TestID = testreport . TestReportID )))
SELECT * FROM HMDB.patientbill;
Select billid, Date, Hospitalname, nameofreport, result, itemname, Cost, Quantity, (Cost*Quantity) AS TOTALPRICE from HMDB.patientbill;
```

100% 137,508

Result Grid Filter Rows: Search Export:

billid	date	HOSPITALNAME	NAMEOFREPORT	result	itemname	cost	quantity	TOTALPRICE
1	2018-03-15 00:00:00	UHCS	Blood Test	Normal	Test	400	1	400
2	2018-01-01 00:00:00	UHCS	Pap Test	Normal	Test	700	1	700
3	2018-04-01 00:00:00	UHCS	ECG	Abnormal	Test + Medicine	500	3	1500
4	2018-01-12 00:00:00	UHCS	Blood test	Abnormal	Test + Medicine	500	3	1500
5	2018-02-14 00:00:00	UHCS	Blood test	Normal	Test	800	1	800
6	2018-01-10 00:00:00	UHCS	Blood test	Abnormal	Test + Medicine	600	4	2400
7	2018-02-27 00:00:00	UHCS	Xrays	Abnormal	Test	1000	1	1000
8	2018-02-20 00:00:00	UHCS	Blood Test	Abnormal	Test + Medicine	700	2	1400
9	2018-03-12 00:00:00	UHCS	ECG	Normal	Test	1000	1	1000
10	2018-03-12 00:00:00	UHCS	Blood test	Abnormal	Test + Medicine	400	3	1200

Result 11

Read Only

3. Join is applied on Person table so that we can full information about each person with his/her address so that it became easy to contact them during case of emergency and easy to backup.

The screenshot shows the MySQL Workbench interface. The query editor displays the following SQL statement:

```

-- Person and Address Table are joined
Select * From Person;
Select * From Person p
INNER JOIN Address a
ON p.personid = a.personid
ORDER BY GENDER;

```

The result grid shows 28 rows of data. The columns are: PersonID, Suffix, First_Name, Middle_Name, Last_Name, EmailAddress, PhoneNo, Gender, AddressID, AddressLine1, AddressLine2, City, State, Country, PostalCode, and PersonID (repeated). The data includes names like Manal Sawant, Manita Rohit, Prathiba Bohara, Seema Jain, Urja Jain, Arham Paras Mehta, Naitik Jain, Tom Leggett, John Bob Andy, Daniel Cersey, Prem Thapar, Saurav Makwana, Manan Doshi, Kushal Shah, Mr Bhargav Patil, Karthik Bohara, Mr Salman khansalman23@gmail.com, and Mr Jvan Jain.

The Action Output pane shows the execution details:

Time	Action	Response	Duration / Fetch Time
18:23:07	Select * From Person LIMIT 0, 100	28 row(s) returned	0.00040 sec / 0.000...
18:25:15	Select * From Person INNER JOIN Address a ON p.personid = a.personid ORDER BY GENDER LIMIT 0, 100	Error Code: 1054. Unknown column 'p.personid' in 'on...	0.00036 sec
18:25:38	Select * From Person INNER JOIN Address a ON p.personid = address.personid ORDER BY GENDER LIMIT 0, 100	Error Code: 1054. Unknown column 'address.personid'...	0.00029 sec
18:25:47	Select * From Person LIMIT 0, 100	28 row(s) returned	0.00037 sec / 0.0000...
18:26:04	Select * From Person p INNER JOIN Address a ON p.personid = a.personid ORDER BY GENDER LIMIT 0, 100	28 row(s) returned	0.00052 sec / 0.0000...

4. Doctor Information is generated using inner join on person and department tables.

The screenshot shows the MySQL Workbench interface. The query editor displays the following SQL statement:

```

-- Patient and Person table is joined
Select * from Patient;
Select * From Patient pa
Inner Join Person p
On pa.Personid = p.Personid;

-- Doctor and Person Table is joined
SELECT * from Doctor;
SELECT * from (Doctor)
Inner Join Person
ON Doctor.Personid = Person.Personid;
Inner Join Department
ON Doctor.DepartmentID = Department.DepartmentID;
ORDER BY DepartmentName;

```

The result grid shows 10 rows of data. The columns are: PersonID, DepartmentID, DoctorID, Qualification, Salary, CabinNO, FloorNo, VisitingTiming, PersonID, Suffix, First_Name, Middle_Name, Last_Name, EmailAddress, PhoneNo, Gender, DepartmentID, and DepartmentName. The data includes doctors like Daniel Cersey, Shreya Shrivastava, Arham Paras Mehta, Vanita Paras Mehta, Naitik Jain, Shrutika Jain, Tom Leggett, Rishika Sharma, Desai Desai, and Kirti Sukhla.

The Action Output pane shows the execution details:

Time	Action	Response	Duration / Fetch Time
18:55:44	Select * from Doctor LIMIT 0, 100	11 row(s) returned	0.00025 sec / 0.0000...
18:55:44	Select * from ((Doctor Inner Join Person ON Doctor.Personid = Person.Personid) Inner Join Department ON Doctor.DepartmentID = Department.DepartmentID) ORDER BY DepartmentName;	11 row(s) returned	0.00044 sec / 0.0000...

5. Inner Join is applied to patient table to have full information about the patient.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' list with 'HMDB' selected. The main window shows a query titled 'project*' with the following SQL code:

```

-- Build INT NOT NULL,
-- Date DATETIME NULL,
-- ItemName VARCHAR(45) NULL,
-- Cost VARCHAR(45) NULL,
-- Quantity VARCHAR(45) NULL,
-- TestID INT NULL,
-- PrescriptionID INT NULL,
-- PRIMARY KEY (BillID),
-- INDEX Bill_PrescriptionID_idx (PrescriptionID ASC),
-- CONSTRAINT Bill_PrescriptionID
-- FOREIGN KEY (PrescriptionID)
-- REFERENCES HMDB.Prescription (PrescriptionID)
-- ON DELETE NO ACTION
-- ON UPDATE NO ACTION;

Select * From Person;
Select * From Patient p
INNER JOIN Address a
ON p.personid = a.personid;

Select * from Patient :
Select * From Patient pa
Inner Join Person p
On pa.Personid = p.Personid

```

The 'Result Grid' shows the output of the inner join query, displaying 7 rows of patient data with columns: PersonID, PatientID, PersonID, Suffix, First_Name, Middle_Name, Last_Name, EmailAddress, PhoneNo, and Gender.

PersonID	PatientID	PersonID	Suffix	First_Name	Middle_Name	Last_Name	EmailAddress	PhoneNo	Gender
13	1	13	Mr	Prem		Thapar	premh@gmail.com	7893489291	Male
14	2	14	Miss	Shubhangi		Junja	junjashu@gmail.com	9865246311	Female
15	3	15	Miss	Prachi		Nagwekar	prachinag@gmail.com	7890218456	Female
16	4	16	Miss	Vanita		Patil	vantiapati@gmail.com	8882492134	Female
17	5	17	Mr	Saurav		Makwana	sauravmak@gmail.com	7888555332	Male
18	6	18	Mr	Marian		Doshi	manandoshi@gmail.com	9888232333	Male
19	7	19	Mr	Kushal		Shah	kushalshah@gmail.com	8777632456	Male

The 'Action Output' section shows the execution of the query, indicating that 7 rows were returned.

6. Trigger is happening on delete of record from my person table.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' list with 'HMDB' selected. The main window shows a query titled 'project*' with the following SQL code:

```

pre.PatientID = pa.PatientID and pa.Personid = p.PersonID
ORDER BY pre.Date ASC;

-- Trigger
CREATE TABLE `HMDB`.`Person_log` (
  `Person_logid` INT NOT NULL,
  `first_name` VARCHAR(45) NULL,
  `last_name` VARCHAR(45) NULL,
  `gender` VARCHAR(45) NULL,
  `Emailid` VARCHAR(45) NULL,
  `Phone` VARCHAR(45) NULL,
  `Date` TIMESTAMP(0) NULL,
) ;

DELIMITER $$
CREATE TRIGGER DeleteRecords
Before DELETE ON Person
FOR EACH ROW
BEGIN
  INSERT INTO person_log(Person_logid,first_name,last_name , gender , Emailid , Phone ,Date )
  Values(old.personid, old.first_name, old.last_name, old.gender,old.emailaddress,old.phoneno, Now());
END;
$$

DELETE FROM Person
where personid = 31;

Select * from hmdb.Person_log;

Person_log
-- Views on bill

```

The 'Result Grid' shows the output of the trigger execution, displaying 4 rows of patient data with columns: Person_logid, first_name, last_name, gender, Emailid, Phone, and Date.

Person_logid	first_name	last_name	gender	Emailid	Phone	Date
29	Jay	Shah	Male	shajay657@gmail.com	12345342421	2018-12-13 02:06:15.000000
29	Jay	Shah	Male	shajay657@gmail.com	92345342421	2018-12-13 02:09:12.000000
30	Subham	Mehta	Male	subhmehta12@gmail.com	93323451388	2018-12-13 02:16:50.000000
31	Divya	Shah	Female	shahdivya@gmail.com	87964757597	2018-12-13 02:17:17.000000

The 'Action Output' section shows the execution of the trigger, indicating that 4 rows were returned.

MySQL Workbench

Hospital Management

Kinjal

Administration

Schemas

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project*

Limit to 100 rows

Filter objects

HMDB

Tables

Views

Stored Procedures

Functions

KINJAL

list

managemet

new_schema

Object Info

Session

Schema: HMDB

```

-- testreport , HospitalName AS 'HOSPITALNAME',
-- testreport . NameOfTest AS 'NAMEOFREPORT',
-- testreport . Result AS 'result',
-- bill . ItemName AS 'Itemname',
-- bill . Cost AS 'cost',
-- bill . Quantity AS 'quantity'

FROM
(
JOIN 'testreport' ON (( 'bill' . TestID = 'testreport' . TestReportID ));

-- SELECT * FROM HMDB.patientbill;
Select BillID, Date, Hospitalname, nameofreport, result, ItemName, Cost*Quantity AS TOTALPRICE from HMDB.patientbill;

-- Analyze;
select SUM(Cost*Quantity) AS Revenue from HMDB.patientbill;

select * from hmdb:doctor
where salary >10000
Order By DepartmentId;

-- connection
DELIMITER //
CREATE PROCEDURE create_user
(IN user_nm CHAR(20), IN user_ps CHAR(20))
BEGIN
SET @host_name := 'admin';

```

100%

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Result Grid

Filter Rows:

Edit

Export/Import:

	PersonId	DepartmentId	DoctorId	Qualification	Salary	CabinNO	FloorNo	VisitingTiming
1	101	1	MD in cardiology	200000	11	1	10:00 am - 4:00 pm	
2	101	5	Master in cardiology	150000	12	1	10:00 am - 4:00 pm	
4	102	3	MD in Gynaecology	51000	32	2	12:00 pm - 6:00pm	
5	103	2	MD in Maternity	60000	33	3	1:00 pm - 3:00 pm	
7	104	6	MD in A&E	60000	21	2	9:00 am - 12:00 pm	
8	104	10	Bachelor in A&E	45000	22	2	12:00 pm - 12:00 am	
9	105	4	Neurology	40000	44	4	10:00am -1:00pm	
10	105	11	Neurology	30000	45	4	9:00 am - 1:00 pm	
11	106	9	Nutritional and Dietics	20000	11	1	9:00 am - 12:00 pm	

doctor 2

Action Output

Response

Duration / Fetch Time

[illegible]