

Chit 1:

1. select Cname, Acc_Type, Amount from Customer c, Account a where c.C_Id = a.C_id and Acc_Type = "Saving";
2. select * from Customer natural join Account;
select * from Customer c left join Account a on c.C_Id = a.C_Id;
select * from Customer c right join Account a on c.C_Id = a.C_Id;
3. select * from Customer where City = (select City from Customer where Cname = "Pooja");
4. select * from Account where Amount < (select avg(Amount) from Account);
5. select C_Id from Account where Amount = (select max(Amount) from Account);
6. select Acc_Type, min(Amount) from Account group by Acc_Type;
7. select Amount from Account where Amount > (select min(Amount) from Account where Acc_Type = "Saving");

Chit 2:

SET SERVEROUTPUT ON;

DECLARE

RNO INT;

NOD INT;

NOB BORROWER.NAMEOFBOOK%TYPE;

AMOUNT INT;

DOI DATE;

BEGIN

RNO := &RNO;

NOB := &NOB;

SELECT ISSUEDATE INTO DOI FROM BORROWER WHERE ROLL_NO = RNO AND NAMEOFBOOK = NOB;
NOD := SYSDATE - DOI;

IF (NOD > 30) THEN

AMOUNT := 50 * NOD;

UPDATE BORROWER SET STATUS = 'R' WHERE ROLL_NO = RNO;

INSERT INTO FINE VALUES(RNO, SYSDATE, AMOUNT);

ELSIF (NOD < 30 AND NOD >= 15) THEN

AMOUNT := 5 * NOD;

UPDATE BORROWER SET STATUS = 'R' WHERE ROLL_NO = RNO;

INSERT INTO FINE VALUES(RNO, SYSDATE, AMOUNT);

ELSE

UPDATE BORROWER SET STATUS = 'R' WHERE ROLL_NO = RNO;

DBMS_OUTPUT.PUT_LINE('NO FINE');

END IF;

EXCEPTION

WHEN NO_DATA_FOUND THEN

DBMS_OUTPUT.PUT_LINE('NO DATA AVAILABLE');

END;

```

Chit 3:
SET SERVEROUTPUT ON;

DECLARE
RNO INT;
ATT INT;

BEGIN
RNO := &RNO;
SELECT ATTENDANCE INTO ATT FROM STUD WHERE ROLL = RNO;

IF (ATT < 75) THEN
UPDATE STUD SET STATUS = 'D' WHERE ROLL = RNO;
DBMS_OUTPUT.PUT_LINE('TERM NOT GRANTED');
ELSE
UPDATE STUD SET STATUS = 'ND' WHERE ROLL = RNO;
DBMS_OUTPUT.PUT_LINE('TERM GRANTED');
END IF;

EXCEPTION
WHEN NO_DATA_FOUND THEN
DBMS_OUTPUT.PUT_LINE('NO DATA AVAILABLE');
END;

```

```

Chit 4:
1. chit4> var map = function(){emit (this.state, this.population)};
   chit4> var reduce = function(k, v) {return Array.sum(v)};
   chit4> db.city.mapReduce(map, reduce, {out : 'statewise'});
   chit4> db.statewise.find()

2. chit4> var map = function(){emit (this.city, this.population)};
   chit4> var reduce = function(k, v) {return Array.sum(v)};
   chit4> db.city.mapReduce(map, reduce, {out : 'citywise'});
   chit4> db.citywise.find()

3. chit4> var map = function(){emit (this.type, this.population)};
   chit4> var reduce = function(k, v) {return Array.sum(v)};
   chit4> db.city.mapReduce(map, reduce, {out : 'typewise'});
   chit4> db.typewise.find()

4. chit4> var map = function(){emit (this.city, 1)};
   chit4> var reduce = function(k, v) {return Array.sum(v)};
   chit4> db.city.mapReduce(map, reduce, {out : 'citywisecount'});
   chit4> db.citywisecount.find()

5. chit4> var map = function(){emit (this.state, 1)};
   chit4> var reduce = function(k, v) {return Array.sum(v)};
   chit4> db.city.mapReduce(map, reduce, {out : 'statewisecount'});
   chit4> db.statewisecount.find()

```

Chit 5:

Chit 6:

```
create or replace NONEDITIONABLE FUNCTION FUNC_1
(
    R IN NUMBER
  , N IN VARCHAR2
  , M IN NUMBER
) RETURN VARCHAR2 AS
BEGIN
    PROCEDURE_1(R,N,M);
    RETURN 'SUCCESSFULL';
END FUNC_1;

create or replace NONEDITIONABLE PROCEDURE PROCEDURE_1
(
    ROLL_NO IN NUMBER
  , NAME IN VARCHAR2
  , MARKS IN NUMBER
) AS
BEGIN
    IF (MARKS <= 1500 AND MARKS >= 990) THEN
        DBMS_OUTPUT.PUT_LINE('DISTINCTION');
        INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'DISTINCTION');
    ELSIF (MARKS <= 989 AND MARKS >= 900) THEN
        DBMS_OUTPUT.PUT_LINE('FIRST CLASS');
        INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'FIRST CLASS');
    ELSIF (MARKS <= 899 AND MARKS >= 825) THEN
        DBMS_OUTPUT.PUT_LINE('HIGHER SECOND CLASS');
        INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'HIGHER SECOND CLASS');
    ELSE
        DBMS_OUTPUT.PUT_LINE('FAIL');
        INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'FAIL');
    END IF;

    INSERT INTO STUD_MARKS VALUES(NAME, MARKS);
END PROCEDURE_1;

SET SERVEROUTPUT ON;

DECLARE
    NAME_1 VARCHAR2(20);
    ROLL_NO_1 NUMBER;
    MARKS_1 NUMBER;
    CLASS VARCHAR2(20);

BEGIN
    ROLL_NO_1 := &ROLL_NO_1;
    NAME_1 := &NAME_1;
    MARKS_1 := &MARKS_1;
    CLASS := FUNC_1(ROLL_NO_1, NAME_1, MARKS_1);
    DBMS_OUTPUT.PUT_LINE(CLASS);

END;
/
```

Chit 7:

```
create or replace NONEDITIONABLE FUNCTION FUNCTION1
(
```

```

    ROLL_NO IN NUMBER
, NAME IN VARCHAR2
, MARKS IN NUMBER
) RETURN VARCHAR2 AS
BEGIN
IF (MARKS <= 1500 AND MARKS >= 990) THEN
DBMS_OUTPUT.PUT_LINE('DISTINCTION');
INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'DISTINCTION');
ELSIF (MARKS <= 989 AND MARKS >= 900) THEN
DBMS_OUTPUT.PUT_LINE('FIRST CLASS');
INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'FIRST CLASS');
ELSIF (MARKS <= 899 AND MARKS >= 825) THEN
DBMS_OUTPUT.PUT_LINE('HIGHER SECOND CLASS');
INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'HIGHER SECOND CLASS');
ELSE
DBMS_OUTPUT.PUT_LINE('FAIL');
INSERT INTO RESULT VALUES(ROLL_NO, NAME, 'FAIL');
END IF;

INSERT INTO STUD_MARKS VALUES(NAME, MARKS);

RETURN 'SUCCESSFULL';
END FUNCTION1;

SET SERVEROUTPUT ON;

DECLARE
NAME_1 VARCHAR2(20);
ROLL_NO_1 NUMBER;
MARKS_1 NUMBER;
CLASS VARCHAR2(20);

BEGIN
ROLL_NO_1 := &ROLL_NO_1;
NAME_1 := &NAME_1;
MARKS_1 := &MARKS_1;
CLASS := FUNCTION1(ROLL_NO_1, NAME_1, MARKS_1);
DBMS_OUTPUT.PUT_LINE(CLASS);

END;
/

```

Chit 8:

```

1. chit8> var map = function(){emit (this.class, 1)}
   chit8> var reduce = function(k, v) {return Array.sum(v)}
   chit8> db.Student.mapReduce(map, reduce, {out:'classwisestudents'})
   chit8> db.classwisestudents.find()

2. chit8> var map = function(){emit (this.class, this.fees)}
   chit8> var reduce = function(k, v) {return Array.sum(v)}
   chit8> db.Student.mapReduce(map, reduce, {out:'classwisefees'})
   chit8> db.classwisefees.find()

3. chit8> var map = function(){emit (this.subject, this.marks)}
   chit8> var reduce = function(k, v) {return Array.sum(v)}
   chit8> db.Student.mapReduce(map, reduce, {out:'subjectwisemarks'})
   chit8> db.subjectwisemarks.find()

```

```

4. chit8> var map = function(){emit (this.subject, 1)}
chit8> var reduce = function(k, v) {return Array.sum(v)}
chit8> db.Student.mapReduce(map, reduce, {out:'subjectwisestudents'})
chit8> db.subjectwisestudents.find()

```

Chit 9:

```

1. db.orderinfo.aggregate([{$group:{_id:"$name", total_price:
{$sum:"$price"}}}]).sort({total_price:1})

2. db.orderinfo.aggregate([{$group:{_id:"$name"}}])

3. db.orderinfo.find({status:'A'}, {_id:1, price:1})

4. db.orderinfo.deleteMany({status:'A'})

```

Chit 10:

```

import com.mongodb.*;

import java.util.Scanner;

public class Chit10 {
    public static void main(String[] args) {
        MongoClient client = new MongoClient("localhost", 27017);
        DB db1 = client.getDB("chit10");

        // Creating a collection
        DBCollection col = db1.createCollection("Students",
            null);
        System.out.println("Collection created");

        // Inserting a document
        BasicDBObject obj1 = new BasicDBObject();
        obj1.append("Roll", 65);
        obj1.append("Name", "Siddhesh");
        col.save(obj1);
        System.out.println("Document inserted");

        // Displaying a document
        System.out.println("Displaying the document");
        DBCursor cur1 = col.find();
        while(cur1.hasNext()) {
            System.out.println(cur1.next());
        }

        // Removing a document
        BasicDBObject obj2 = new BasicDBObject();
        obj2.append("Roll", 1);
        obj2.append("Name", "A");
        col.save(obj2);

        System.out.println("Before removing the document");
        DBCursor cur2 = col.find();
        while(cur2.hasNext()) {
            System.out.println(cur2.next());
        }
    }
}

```

```

    }

    col.remove(obj2);

    System.out.println("After removing the document");
    DBCursor cur3 = col.find();
    while(cur3.hasNext()) {
        System.out.println(cur3.next());
    }

    client.close();
}
}

```

Chit 11:

```

CREATE OR REPLACE TRIGGER TRIGGER1
BEFORE DELETE OR INSERT OR UPDATE ON LIB_TAB
REFERENCING OLD AS OLD NEW AS NEW
FOR EACH ROW
DECLARE
TRIGGER1 CHAR;
BEGIN
IF UPDATING THEN
DBMS_OUTPUT.PUT_LINE(:OLD.STATUS);
INSERT INTO LIB_AUDIT VALUES(SYSDATE, :OLD.BOOK_NAME, :OLD.STATUS, :NEW.STATUS,
'UPDATE');
ELSIF INSERTING THEN
DBMS_OUTPUT.PUT_LINE(:NEW.STATUS);
INSERT INTO LIB_AUDIT VALUES(SYSDATE, :NEW.BOOK_NAME, :OLD.STATUS, :NEW.STATUS,
'INSERT');
ELSE
DBMS_OUTPUT.PUT_LINE(:OLD.BOOK_NAME || 'DELETING');
INSERT INTO LIB_AUDIT VALUES(SYSDATE, :OLD.BOOK_NAME, :OLD.STATUS, :NEW.STATUS,
'DELETE');
END IF;
END;

```

Chit 12:

```

create table account(acc_no int primary key, branch_name varchar(20) not null,
balance int not null, check(balance >= 0));

create table branch(branch_name varchar(20) not null, branch_city varchar(20) not
null, assets int not null check(assets >= 0));

create table customer(cust_name varchar(20) not null, cust_street int not null,
cust_city varchar(20) not null);

create table depositor(cust_name varchar(20) not null, acc_no int, foreign key
(acc_no) references account(acc_no));

create table loan(loan_no int primary key, branch_name varchar(20) not null, amount
int not null, check(amount >= 0));

create table borrower(cust_name varchar(20) not null, loan_no int, foreign key
(loan_no) references loan(loan_no) on delete cascade);

```

1. select distinct branch_name from loan;
2. select loan_no from loan where branch_name = 'Akurdi' and amount > 12000;
3. select cust_name, loan.loan_no, amount from loan inner join borrower on loan.loan_no = borrower.loan_no;
4. select cust_name from loan l, borrower b where l.loan_no = b.loan_no and branch_name = 'Akurdi' order by cust_name;
5. select cust_name from account a, depositor d where a.acc_no = d.acc_no union select cust_name from loan l, borrower b where l.loan_no = b.loan_no;
6. select avg(balance) from account where branch_name = 'Akurdi';
7. select branch_name, avg(balance) from account group by branch_name;
8. select branch_name, count(*) from depositor d, account a where a.acc_no = d.acc_no group by branch_name;
9. select branch_name, avg(balance) from account group by branch_name having avg(balance) > 12000;
10. select count(*) from customer;
11. delete from loan where amount between 1300 and 1500;

Chit 13:

1. create table jobs(job_id int primary key, job_desc varchar(20));
2. create table employee(employee_id int primary key, first_name varchar(20), last_name varchar(20), job_id int, salary int, foreign key (job_id) references jobs(job_id) on delete no action on update no action);

Try some update and delete queries

Chit 14:

1. chit14> db.createCollection('Teachers')
chit14> db.createCollection('Department')
chit14> db.createCollection('Students')
chit14> db.Teachers.insertMany([
{Tname:'T1', Dno:1, Experience:13, Salary:17000, Date_of_joining:new Date(2012-07-21)},
{Tname:'T2', Dno:2, Experience:17, Salary:9000, Date_of_joining:new Date(2009-02-15)},
{Tname:'T3', Dno:1, Experience:8, Salary:21000, Date_of_joining:new Date(2014-11-29)},
{Tname:'T4', Dno:2, Experience:19, Salary:7000, Date_of_joining:new Date(2010-04-19)}}])
chit14> db.Department.insertMany([
{Dno:1, Dname:'COMP'}, {Dno:2, Dname:'ENTC'}])

```
chit14> db.Students.insertMany([{$name:'abc', Roll_no:1, Class:'FE'},
{$name:'def', Roll_no:2, Class:'SE'},
    {$name:'xyz', Roll_no:3, Class:'TE'}, {$name:'ghi', Roll_no:4,
Class:'BE'}, {$name:'jkl', Roll_no:5, Class:'FE'}])
```

```
2. db.Teachers.find({$and:[{$Dno:2}, {$Salary:{$gte:10000}}]})
```

```
3. db.Students.find({$or:[{$Roll_no:2}, {$Sname:'xyz'}]})
```

```
4. db.Students.update({Roll_no:5}, {$set:{Sname:'Sid'}})
```

```
5. db.Students.deleteMany({Class:'FE'})
```

```
6. db.Teachers.find({Experience:{$gt:10}})
```

```
7. db.Students.createIndex({Roll_no:1})
```

Chit 15:

```
1. use Institute
```

```
2. db.createCollection('Student')
```

```
3. db.Student.insertMany([{$RollNo:1, Name:'Yuvraj', Age:16, Branch:'Computer',
Address:{City:'Mumbai', State:'Maharashtra'}, Hobbies:['H1', 'H3']},
    {$RollNo:2, Name:'Aman', Age:14, Branch:'Computer', Address:{City:'Bangalore',
State:'Karnataka'}, Hobbies:['H1', 'H4', 'H5']},
    {$RollNo:3, Name:'Amit', Age:12, Branch:'ENTC', Address:{City:'Nagar',
State:'Maharashtra'}, Hobbies:['H2', 'H4']},
    {$RollNo:4, Name:'John', Age:19, Branch:'Civil', Address:{City:'Ahmedabad',
State:'Gujarat'}, Hobbies:['H3', 'H5']},
    {$RollNo:5, Name:'Simon', Age:20, Branch:'Mech', Address:{City:'Delhi',
State:'Delhi'}, Hobbies:['H2', 'H4', 'H5']},
    {$RollNo:6, Name:'Paul', Age:14, Branch:'ENTC', Address:{City:'Indore',
State:'Madhya Pradesh'}, Hobbies:['H2', 'H3']},
    {$RollNo:7, Name:'Toby', Age:21, Branch:'Civil', Address:{City:'Panaji',
State:'Goa'}, Hobbies:['H4', 'H5']},
    {$RollNo:8, Name:'Peter', Age:15, Branch:'Mech', Address:{City:'Guwahati',
State:'Assam'}, Hobbies:['H2', 'H4']},
    {$RollNo:9, Name:'Sunil', Age:11, Branch:'Computer', Address:{City:'Pune',
State:'Maharashtra'}, Hobbies:['H1', 'H5']},
    {$RollNo:10, Name:'Deepak', Age:22, Branch:'ENTC', Address:{City:'Mumbai',
State:'Maharashtra'}, Hobbies:['H1', 'H3']}]})
```

```
4. db.Student.find()
```

```
5. db.Student.find({Age:{$gt:15}})
```

```
6. db.Student.find().sort({Name:1})
```

```
7. db.Student.update({RollNo:3}, {$set:{Branch:'Computer'}})
```

```
8. db.Student.deleteOne({RollNo:1})
```

```
9. db.Student.find({Name:/^A/})
```

```
10. db.Student.find().count()
```



```

11. db.Student.find().limit(5)
12. db.Student.find().skip(3)
13. db.Student.find({Address:{City:'Pune', State:'Maharashtra'}})
14. db.Student.distinct("Address.City")
15. var map = function(){emit(this.Address.City, 1)}
    var reduce = function(k, v) {return Array.sum(v)}
    db.Student.mapReduce(map, reduce, {out:'citycount'})
    db.citycount.find()
16. db.Student.find({}, {Name:1})
17. db.Student.find({}, {Name:1, Hobbies:1})
18. db.Student.drop()

```

Chit 16:

```

1. use department
2. db.createCollection('teacher')
   db.teacher.insertMany([{name:'A', department:'Computer', experience:13,
salary:17000}, {name:'B', department:'ENTC', experience:11, salary:12000},
   {name:'C', department:'Computer', experience:15, salary:18300}, {name:'D',
department:'ENTC', experience:15, salary:22400}])
3. db.teacher.aggregate([{$group: {_id:"$department", average_salary:
{$avg:"$salary"}}}])
4. db.teacher.aggregate([{$group: {_id:"$department", no_of_employees:{$sum:1}}}])
5. db.teacher.aggregate([{$group: {_id:"$department", min_salary:
{$min:"$salary"}}}])
6. db.teacher.createIndex({name:1})
   db.teacher.dropIndex({name:1})

```

Chit 17:

```

1. select book.book_id, title, publisher_name, author_name, branch_name,
no_of_copies from book
   join book_authors on book.book_id = book_authors.book_id join book_copies on
book.book_id = book_copies.book_id
   join library_branch on book_copies.branch_id = library_branch.branch_id;
2. select title, branch_name, card_no, date_out, due_date from book_lending
   join book on book_lending.book_id = book.book_id join library_branch on
book_lending.branch_id = library_branch.branch_id
   where date_out between '2017-01-01' and '2017-06-30';
3. delete from book where title = 'Databases';
4. select pub_year, count(*) as total_no_of_books from book group by pub_year order

```

by pub_year;

5. create view books as select title, sum(no_of_copies) as copies from book
join book_copies on book.book_id = book_copies.book_id group by book.book_id;

Chit 18:

1. select distinct address from employee;
2. select max(salary), min(salary) from employee;
3. select * from employee order by salary;
4. select ename from employee where address = 'Nasik' or address = 'Pune';
5. select ename from employee where commission is null;
6. update employee set address = 'Nasik' where ename = 'Amit';
7. select * from employee where ename like 'A%';
8. select count(*) from employee where address = 'Mumbai';
9. select address, count(*) from employee group by address;
10. select distinct address from employee, project where address = addr;
11. select address, min(salary) from employee group by address;
12. select address, max(salary) from employee group by address having max(salary) > 26000;
13. delete from employee where salary > 30000;

Chit 19:

1. create table emp(eno int auto_increment primary key, ename varchar(20) not null,
address varchar(20) default 'Nashik', joindate date);
alter table emp auto_increment = 101;
2. alter table emp add post varchar(20);
3. insert into emp(ename, address, salary, joindate, post) values('Amit', 'Pune',
25000, '2017-05-23', 'HR'),
('Sneha', 'Pune', 35000, '2018-11-17', 'Manager'), ('Savita', 'Nashik', 28000,
'2019-05-21', 'Tech Head'),
('Pooja', 'Mummbai', 19000, '2020-01-27', 'PR Head'), ('Sagar', 'Mumbai', 25000,
'2021-09-12', 'Marketing Head');
- create index emp_name on emp(ename);
4. insert into emp(ename, salary, joindate, post) values('Siddhesh', 21000, '2022-
03-27', 'Head');
5. create view emp_data as select ename, salary from emp;
select * from emp_data;

Chit 20:

Indexing:

```
1. db.createCollection('Student')

2. db.Student.insertMany([
  {rollno:1, name:'navin', subject:'DMSA', marks:78},
  {rollno:2, name:'anusha', subject:'OSD', marks:75},
  {rollno:3, name:'ravi', subject:'TOC', marks:69},
  {rollno:4, name:'veena', subject:'TOC', marks:70},
  {rollno:5, name:'pravini', subject:'OSD', marks:80},
  {rollno:6, name:'reena', subject:'DMSA', marks:50},
  {rollno:7, name:'geeta', subject:'CN', marks:90},
  {rollno:8, name:'akash', subject:'CN', marks:85}])

3. db.Student.createIndex({rollno:1})

4. db.Student.createIndex({rollno:1, name:1})

5. db.Student.createIndex({name:1}, {unique:true})

6. db.Student.getIndexes()

7. db.Student.dropIndex('name_1')
```

Aggregation:

```
1. db.Student.aggregate([
  {$group: {_id: "$subject", max_marks: {$max: "$marks"}}}])

2. db.Student.aggregate([
  {$group: {_id: "$subject", min_marks: {$min: "$marks"}}}])

3. db.Student.aggregate([
  {$group: {_id: "$subject", total_marks: {$sum: "$marks"}}}])

4. db.Student.aggregate([
  {$group: {_id: "$subject", average_marks: {$avg: "$marks"}}}])

5. db.Student.aggregate([
  {$group: {_id: "$subject", rollno: {$first: "$rollno"}, name:
  {$first: "$name"},
  subject: {$first: "$subject"}, marks: {$first: "$marks"}}}])

6. db.Student.aggregate([
  {$group: {_id: "$subject", rollno: {$last: "$rollno"}, name:
  {$last: "$name"},
  subject: {$last: "$subject"}, marks: {$last: "$marks"}}}])

7. db.Student.aggregate([
  {$group: {_id: "$subject", count: {$sum: 1}}}])

8. db.Student.aggregate([
  {$group: {_id: "$subject", count: {$sum: 1}}}])
```

Chit 21:

```
import com.mongodb.*;

import java.util.Scanner;

public class Chit21 {
    public static void main(String[] args) {
        int ch, i = 0;
        String str;
```

```

MongoClient client = new MongoClient("localhost", 27017);
DB db1 = client.getDB("chit21");
DBCollection col = db1.createCollection("Students", null);

Scanner sc = new Scanner(System.in);

do {
    System.out.println("1.Insert\n2.Display\n3.Update\n4.Delete\n5.Drop\n6.Exit");
    System.out.println("Enter a choice:");

    ch = Integer.parseInt(sc.nextLine());

    switch(ch) {
        case 1:
            System.out.println("Enter name:");
            str = sc.nextLine();
            BasicDBObject obj1 = new BasicDBObject().append("Name", str);
            col.save(obj1);
            System.out.println("Inserted");
            break;

        case 2:
            DBCursor cur = col.find();
            while(cur.hasNext()) {
                System.out.println(cur.next());
            }
            break;

        case 3:
            System.out.println("Enter name to be replaced:");
            str = sc.nextLine();
            BasicDBObject obj2 = new BasicDBObject().append("Name", str);
            System.out.println("Enter new name:");
            str = sc.nextLine();
            BasicDBObject obj3 = new BasicDBObject().append("Name", str);
            col.update(obj2, obj3);
            System.out.println("Updated");
            break;

        case 4:
            System.out.println("Enter name:");
            str = sc.nextLine();
            BasicDBObject obj4 = new BasicDBObject().append("Name", str);
            col.remove(obj4);
            System.out.println("Deleted");
            break;

        case 5:
            col.drop();
            System.out.println("Collection Dropped");
            break;

        case 6:
            System.exit(0);
    }

    System.out.println("Enter 1 to continue or 0 to exit");
}

```

```

        i = Integer.parseInt(sc.nextLine());
    }while(i == 1);

    client.close();
}
}

```

Chit 22:

```

import java.sql.*;
import java.util.Scanner;

public class Chit22 {
    public static void main(String[] args) throws Exception{
        Class.forName("com.mysql.cj.jdbc.Driver");

        Scanner sc = new Scanner(System.in);

        String url = "jdbc:mysql://localhost:3306/chit22";
        String uname = "root";
        String pass = "2707";

        Connection con = DriverManager.getConnection(url, uname, pass);

        System.out.println("Connection established successfully");

        Statement st = con.createStatement();
        String query;

        int ch, i = 0;

        do {
            System.out.println("1.DML Queries\n2.DQL Queries\n3.DDL Queries");
            System.out.println("Enter a choice:");

            ch = Integer.parseInt(sc.nextLine());

            switch(ch) {
                case 1:
                    query = sc.nextLine();
                    st.execute(query);
                    System.out.println("DML Query executed successfully");
                    break;

                case 2:
                    query = sc.nextLine();
                    ResultSet rs = st.executeQuery(query);
                    while(rs.next()) {
                        System.out.println(rs.getInt(1) + "\t" + rs.getString(2));
                    }
                    System.out.println("DQL Query executed successfully");
                    break;

                case 3:
                    query = sc.nextLine();
                    st.executeUpdate(query);
                    System.out.println("DDL Query executed successfully");
                    break;
            }
        } while (ch != 0);
    }
}

```

```

    }

    System.out.println("Enter 1 to continue or 0 to exit");
    i = Integer.parseInt(sc.nextLine());
}while(i == 1);

    con.close();
}
}

```

Chit 23:

1. select p.p_name, city from patient p, visit v where date_of_visit = '2017-07-13' and p.p_name = v.p_name;
2. select name, count(*) from physician p, visit v where p.reg_no = v.reg_no group by v.reg_no;
select date_of_visit, sum(fee) from visit group by date_of_visit;
3. select v.p_name, street, city from patient p, visit v where p.p_name = v.p_name;
4. create view visitors as select * from visit where date_of_visit between '2021-01-01' and '2022-12-31';
select * from visitors;
5. create index patient_name on patient(p_name);

Chit 24:

```
db.movies.insertOne({name:'Movie1', type:'action', budget:1000000, producer:
{name:'producer1', address:'Pune'}})
```

1. db.movies.find({budget:{\$gt:1000000}}, {name:1})
2. db.movies.find({"producer.address":'Pune'}, {"producer.name":1})
3. db.movies.update({type:'action'}, {\$set:{type:'horror'}})
4. db.movies.find({"producer.name":'producer1'})
5. db.movies.aggregate([{\$group: {_id:'\$name'}}])

Chit 25:

1. select * from loan order by amount desc, loan_no;
2. N/A
3. select c_name, c_city, street from customer c join depositor d on c.c_no = d.c_no join borrower b on c.c_no = b.c_no
join account a on d.acc_no = a.acc_no join loan l on b.loan_no = l.loan_no where
l.amount > (3 * a.balance);