```
1. Retrieve the address of customer Fname as 'xyz' and Lname as 'pqr'
select * from cust mer;
+----+
| cust no | fname | lname |
+----+
    23 | xyz | pqr | 24 | Tejas | Machkar |
   35 | Harshika | Mishra |
+----+
select * from add_dets;
+-----
| cust no | add1
                        | add2
      | city | pincode |
+----+
   23 | Goodwill Society Porwal Road | Dhanori Pune-411007
| Maharashtra | Pune | 411007 |
| 24 | Pratik Nagar society
                        | Vishrantwadi Pune-411006
| 35 | Kaalin wada Sr-102
                        | Santosh Nagar Mirzapur-611015
| Uttar Pradesh | Mirzapur | 411015 |
+----+
Select add1,add2,state,city,pincode from add dets where cust no = (select
cust no from cust mer where fname="xyz" and lname="pqr");
+-----
-+----+
| add1
                  | add2
                                | state | city
| pincode |
+----+
| Goodwill Society Porwal Road | Dhanori Pune-411007 | Maharashtra | Pune
| 411007 |
+----
2. List the customer holding fixed deposit of amount more than 5000
select * from cust mer;
+----+
| cust no | fname | lname |
+----+
    23 | xyz | pqr | 24 | Tejas | Machkar |
   35 | Harshika | Mishra |
+----+
select * from acc fd cust dets;
+----+
| cust no | acc fd no |
+----+
  24 | 1 | 35 | 2 |
```

Name: Tejas Rajesh Machkar

Roll No: 23 Class: TE2 Comp PRN: F18112025

35 I

```
+----+
select * from fd dets;
+----+
| acc_fd_no | fd_sr_no | amount |
+----+
   1 | 1 | 4000 |
2 | 1 | 10000 |
+----+
select fname, lname from cust mer where cust no=(select cust no from
acc fd cust dets where acc fd no = (Select acc fd no from fd dets where
amount>5000));
Output:
+----+
| fname | lname |
+----+
| Harshika | Mishra |
3. List the employee details along with branch names to which they belong
select * from emp mstr;
| empno | fname | mname | lname | dept | desg
branchno |
1
   1 | Tejas | Rajesh | Machkar | Computer | Manager
2 |
   2 | Harshika | Suresh | Mishra | Computer | Senior Dev
   3 | Sumedh | Ramesh | Ovhal | HR | Recruiter
1 |
   4 | Sayali | Shailesh | Shinde | HR | Party planner |
select * from branch_mstr;
+----+
| branchno | name
+----+
    1 | Denmark |
   2 | Sydney |
+----+
Select emp_mstr.*,branch_mstr.name from emp_mstr join branch_mstr on
emp mstr.branchno=branch mstr.branchno;
----+
| empno | fname | mname | lname | dept | desg branchno | name |
+----+
----+
   1 | Tejas | Rajesh | Machkar | Computer | Manager
2 | Sydney |
   2 | Harshika | Suresh | Mishra | Computer | Senior Dev |
2 | Sydney |
```

```
3 | Sumedh | Ramesh | Ovhal | HR | Recruiter |
1 | Denmark |
| 4 | Sayali | Shailesh | Shinde | HR
                                  | Party planner |
1 | Denmark |
_____
______
4. List the employee details along with contact details using left outer
join & right join
select * from emp mstr;
| empno | fname | mname | lname | dept | desg
branchno |
1 | Tejas | Rajesh | Machkar | Computer | Manager
2 |
   2 | Harshika | Suresh | Mishra | Computer | Senior Dev
2 |
   3 | Sumedh | Ramesh | Ovhal | HR | Recruiter |
1 |
   4 | Sayali | Shailesh | Shinde | HR | Party planner |
select * from cntc dets;
+----+
| empno | cntc type | cntc data |
+----+
   1 | Mobile | 9764661522 | 2 | email | hansa.mail | 3 | Mobile | 9654234521 | 4 | mail | saya.mail |
+----+
select
\verb|emp_mstr.empno,emp_mstr.fname,emp_mstr.mname,emp mstr.lname,cntc dets.cnt| \\
c type, cntc dets.cntc data from emp mstr right join cntc dets on
emp mstr.empno=cntc dets.empno;
Output:
+----+
| empno | fname | mname | lname | cntc_type | cntc_data |
+----+
    1 | Tejas | Rajesh | Machkar | Mobile | 9764661522 | 2 | Harshika | Suresh | Mishra | email | hansa.mail |
   3 | Sumedh | Ramesh | Ovhal | Mobile | 9654234521 | 4 | Sayali | Shailesh | Shinde | mail | saya.mail |
+----+
5. List the customer who do not have bank branches in their vicinity
select * from cust mer;
+----+
| cust no | fname | lname |
+----+
  23 | xyz | pqr |
24 | Tejas | Machkar |
```

```
+----+
select * from add_dets;
+----+
+----+
| cust no | add1
                       | add2
+----+
| 23 | Goodwill Society Porwal Road | Dhanori Pune-411007
24 | Pratik Nagar society
                       | Vishrantwadi Pune-411006
| 35 | Kaalin wada Sr-102
                       | Santosh Nagar Mirzapur-611015
| Uttar Pradesh | Mirzapur | 411015 |
+----+
select fname, lname from cust mer where cust no in(select cust no from
add dets where pincode not in (select pincode from branch add dets));
Output:
+----+
| fname | lname |
+----+
| Harshika | Mishra |
+----+
6.
A.Create View on borrower table by selecting any two columns and perform
insert update delete operations
CREATE VIEW BORROWER VIEW AS SELECT * FROM Borrower;
 Select * from BORROWER VIEW;
 Output:
   +----+
   | cust name | loan no |
   +----+
   +----+
insert into loan values ("loan128", "Bund Garden", 8000);
INSERT INTO BORROWER VIEW VALUES ('TANMAY JAGTAP', 116);
Tables before:
BORROWER VIEW:
+----+
| cust name | loan no |
+----+
+----+
+----+
| loan no | branch name | amount |
+----+
```

35 | Harshika | Mishra |

```
| loan123 | Viman Nagar | 35000 |
| loan124 | Bund Garden | 40000 |
| loan127 | Viman Nagar | 45000 |
+----+
Tables after:
BORROWER VIEW:
+----+
| cust name | loan no |
+----+
| Sumedh | loan127 |
| Tanmay Jagtap | loan128 |
+----+
+----+
| loan no | branch name | amount |
+----+
| loan123 | Viman Nagar | 35000 |
| loan124 | Bund Garden | 40000 |
| loan127 | Viman Nagar | 45000 |
| loan128 | Bund Garden | 8000 |
+----+
ii.UPDATE BORROWER VIEW SET cust name="ALI ANEES" WHERE
loan no="loan128";
 Output:
+----+
| cust name | loan no |
+----+
| Sumedh | loan127 |
| ALI ANEES | loan128 |
+----+
iii.DELETE FROM Loan WHERE loan no="loan128";
   Output:
BORROWER VIEW:
+----+
| cust_name | loan no |
+----+
+----+
B. Create view on borrower and depositor table by selecting any one
column from each table
CREATE VIEW BOR DEP AS SELECT acc no, Depositor.cust name, loan no FROM
```

Depositor INNER JOIN Borrower ON Depositor.cust name=Borrower.cust name;

select \* from BOR DEP;

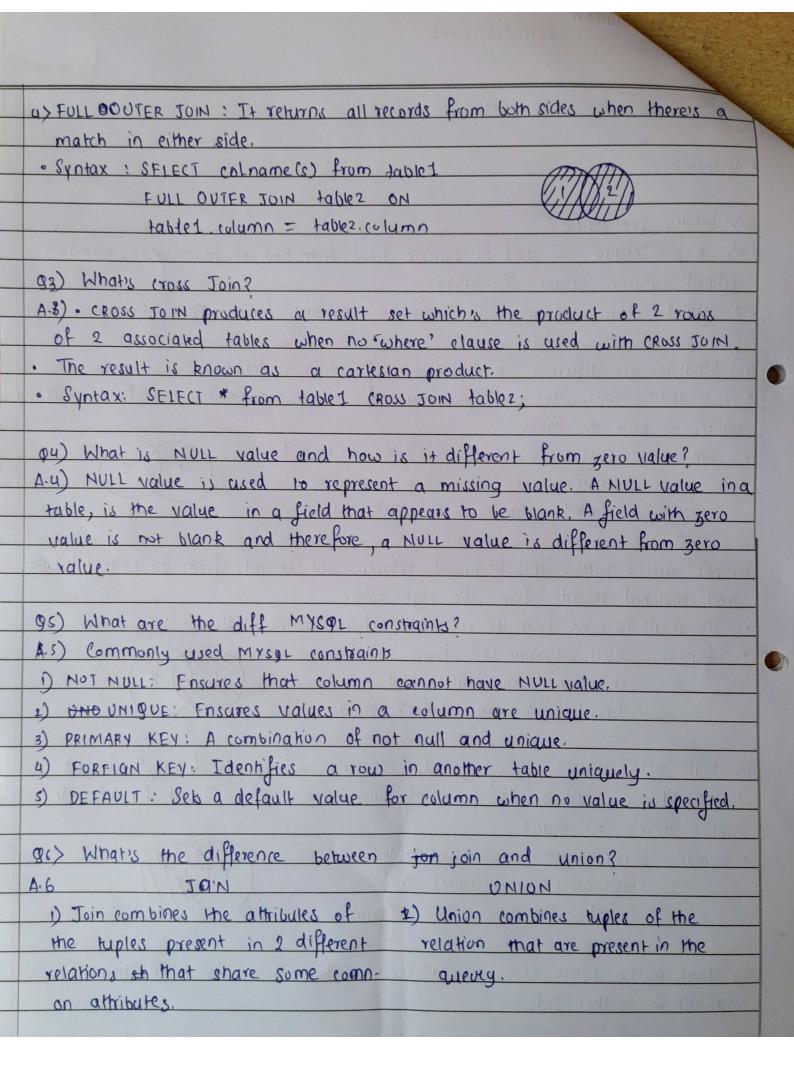
+----+

Output:

```
+----+
            | loan123 |
| loan124 |
| C8482381765 | Shyam
| C8382381671 | Soham
+----+
_____
INSERT INTO Loan VALUES ("loan128", "Bund Garden", 8000);
INSERT INTO Borrower VALUES ('ALIASGAR ANEES', "loan128");
INSERT INTO Depositor VALUES ('ALIASGAR ANEES', "364");
SELECT * FROM BOR DEP;
Output:
+----+
+----+
| C8482381765 | Shyam
             | loan123 |
| loan124 |
| C8382381671 | Soham
| 364 | ALIASGAR ANEES | loan128 |
+----+
______
ii.
UPDATE Depositor SET cust name='ALI ANIS' WHERE acc no="364";
UPDATE Borrower SET cust name='ALI ANIS' WHERE loan no="loan128";
SELECT * FROM BOR DEP;
Output:
+----+
| acc no | cust name | loan_no |
+----+
+----+
iii.
DELETE FROM Depositor WHERE acc no="364";
DELETE FROM loan WHERE loan no="loan128";
SELECT * FROM BOR DEP;
Output:
+----+
+----+
```

+----+

Name: Tejas, K. Machkar PRN: F18112025 RollNo: 23 Batch: P DBMS - Assignment 4 · Questions: DI> Whatis Join clause? A.1) A join clause is used to combine rows from two or more tables, based on related column between the tables. · A related column between the tables is imposetant for the John clause. 92) Whatire are different kinds of John? Explain in detail. A.2) is INNER JUIN: The inner join keyword selects the records that have matching values in both the tables. · Syntax: SFLECT column-name (5) FROM table-1 INNER JOIN table\_2 ON table 1 . columnme = table 2 . columnme. ii) LEFT OUTER JOM: This keyword returns all records from the table left table and matched records from the right table. . The result is none from the right side, if there's no match · Syntax: Select col-name (8) from table 1 LEFT OUTER JOIN table 2 ON table 1. col-name = table 2. col-name: iii) RIGHT OUTER JOHN: This begwords returens all records from the right table and matched records from left table. The result is null for left side when there's no match. · Syntax: SELFCT collame(s) From table 1 RIGHT OUTER JOIN table2 ON table 1. col\_name = table 2. col\_name iv) FULL OUTER JOIN: The returns all records from both sides when there's a match in either side.



|                                                                                   | The state of the s |                                                                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                                                                   | ed relations have atteast one common attribute.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2) Applicable when no of columns present query are same and corresponding attributes have same domain. |
|                                                                                   | as compared to length of tuples involved relations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | as compared to no of tuples in each involved relation.                                                 |
|                                                                                   | (a) List different aggregation function<br>(b) AVG () (v) MIN()<br>(i) COUNT() (v) SUM()<br>(ii) MAX()                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | in MYSQL.                                                                                              |
|                                                                                   | 98) Differentiale between unique key  A.8) Primary key  1) Can't accept NULL Values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unique key                                                                                             |
|                                                                                   | 3) Only one per table.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | index.  3) More than one pertable is allowed.                                                          |
|                                                                                   | 2 5 to 6 whose? and 6 having? old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | another rable.                                                                                         |
| specific condition given by the user.  The used to restrict no of rows displayed. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | usplayed.                                                                                              |
|                                                                                   | . Syntax: SFLECT (olumn name(s) from faule name  WHERE condition;  SELECT statement to specify filter conditions for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                        |
|                                                                                   | group of rows or aggregates. It's  filty groups based on a specific condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | offen aska com akout of cidage is                                                                      |

| · If f group by clause is emitted,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HAVING behaves like a WHERE clause.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · Syntax: Select col-name(s) from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WHERE condition GROUP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| HAVING condition;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| S) The Roll of Welling timber of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sign of the State  |
| ton a most board by board                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The state of the s |
| mainta hoptoway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The state of the s |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TOTAL STATE OF THE | astar comments and but the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chapter Addition of the Control of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Congression Congression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |