Name: Tejas Rajesh Machkar

Roll No: 23 Class: TE2 Comp PRN: F18112025

Table Structure-----

select * from account;

+	+	++
Acc_no	branch_name	balance
+	+	++
C8382381670	Akurdi	13400
C8382381671	Bund Garden	10000
C8392380567	Vishrantwadi	5500
C8392380568	Viman Nagar	6500
C8392380570	Akurdi	12500
C8392380670	Akurdi	10500
C8392381670	Dhanori	10500
C8482381665	Bund Garden	55004
C8482381671	Akurdi	50000
C8482381765	Viman Nagar	75004
C8482381766	Nigdi	34000
+	+	++

select * from branch;

+	+	++
branch_name	branch_city	assets
Akurdi Bund Garden Dhanori Nigdi Viman Nagar Vishrantwadi	Pimpri-Chinchwad Pune Mumbai Pune Mumbai Pune	6000000 12000000 8000000 120000 13000000
+	+	++

select * from customer;

cust_name cust_street cust_city cust_name cust_street cust_city cust_city	+	+	++
Harshika Symboisis Road Pune Kimaya Virar Road Mumbai Nachiket SNT Road Pimpri-Chinchwad Noopur SNT Road Pimpri-Chinchwad Noopur Station Road Pimpri-Chinchwad Rajeev Marine Drive Mumbai Sherlock 221B-Baker Str London Shyam Denshaw Road Mumbai Soham Law clg Road Pune	cust_name	cust_street	cust_city
+	Harshika Kimaya Nachiket Noopur Noopur Rajeev Sherlock Shyam	Symboisis Road Virar Road SNT Road SNT Road Station Road Marine Drive 221B-Baker Str Denshaw Road	Pune

select * from depositor;

İ	cust_name	İ	Acc_no	+ - -
	Shyam Nachiket	'	C8482381765 C8392380670	
	Noopur		C8392380570	

```
| Harshika | C8392380568 |
| Sherlock | C8482381766 |
+----+
select * from loan;
+----+
| loan no | branch name | amount |
+----+
| loan123 | Viman Nagar | 35000 |
| loan124 | Bund Garden | 40000 |
| loan127 | Viman Nagar | 45000 |
+----+
select * from borrower;
+----+
| cust name | loan no |
+----+
+----+
______
1.SELECT distinct branch name from loan;
Output:
+----+
| branch_name |
+----+
| Viman Nagar |
| Bund Garden |
| Akurdi
     1
______
2.SELECT loan no from Loan where branch name = 'Akurdi' and amount>12000;
Output:
+----+
| loan no |
+----+
| loan125 |
3.SELECT Borrower.cust name, Borrowe.loan no, Loan.amount from Borrower
JOIN Loan ON Borrower.loan no = Loan.loan no;
Output:
+----+
```

```
| cust_name | loan_no | amount |
+----+
| Abhish | loan126 | 11000 |
+----+
______
4.SELECT Borrower.cust name from Borrower JOIN Loan ON Borrower.Loan no =
Loan.Loan no where Loan.branch name='Akurdi' order by Borrower.cust name
asc;
Output:
+----+
| cust_name |
+----+
| Abhish
Noopur
+----+
5.SELECT cust_name from Depositor
SELECT cust name from Borrower;
Output:
+----+
| cust name |
+----+
| Shyam
| Nachiket |
| Noopur
| Soham
| Rajeev
| Tejas
| Harshika |
| Abhish
| Sherlock |
| Sumedh
6.SELECT Borrower.cust_name from Borrower JOIN Depositor ON
Borrower.cust name = Depositor.cust name;
Output:
+----+
| cust_name |
+----+
| Shyam
Noopur
Soham
| Abhish
______
```

7.SELECT cust name from Depositor

```
LEFT JOIN
Borrower USING (cust name)
WHERE Borrower.cust name IS NULL;
SELECT cust name from Depositor where cust name NOT IN (SELECT cust name
from Borrower);
Output:
+----+
| cust name |
+----+
| Nachiket |
| Rajeev
| Tejas
| Harshika |
| Rajeev |
| Sherlock |
8.SELECT AVG(balance) from Account WHERE branch name = 'Akurdi';
Output:
| AVG(balance) |
| 21600.0000 |
+----+
9. SELECT AVG(balance) as Avg, branch name from Account group by
branch name;
Output:
+----+
| Avg | branch name |
+----+
| 21600.0000 | Akurdi
| 32502.0000 | Bund Garden
| 5500.0000 | Vishrantwadi |
| 40752.0000 | Viman Nagar |
| 10500.0000 | Dhanori
| 34000.0000 | Nigdi
+----+
10.SELECT COUNT(Depositor.Acc_no) as No_of_Depositor, Account.branch_name
from Depositor JOIN Account ON Depositor. Acc no=Account. Acc no group by
Account.branch name;
Output:
+----+
| No of Depositor | branch name |
+----+
             2 | Viman Nagar |
              4 | Akurdi
             1 | Bund Garden |
             1 | Vishrantwadi |
             1 | Dhanori |
```

1 | Nigdi

+----+

```
11.SELECT branch name from Account group by branch name HAVING
AVG(balance)>12000;
Output:
+----+
| branch name |
| Akurdi
| Bund Garden |
| Viman Nagar |
| Nigdi
+----+
12.SELECT COUNT(*) from customer;
Output:
+----+
| COUNT(*) |
+----+
  11 |
+----+
13.SELECT SUM(amount) from loan;
Output:
+----+
| SUM(amount) |
+----+
    146000 I
14.DELETE from Loan where amount BETWEEN 10000 AND 30000;
Table Before:
+----+
| loan no | branch name | amount |
+----+
| loan123 | Viman Nagar | 35000 |
| loan124 | Bund Garden | 40000 |
| loan127 | Viman Nagar | 45000 |
+----+
Table After:
+----+
| loan no | branch name | amount |
+----+
| loan123 | Viman Nagar | 35000 |
| loan124 | Bund Garden | 40000 |
| loan127 | Viman Nagar | 45000 |
+----+
Output:
Query OK, 2 rows affected (0.20 sec)
```

15.DELETE from Branch, Loan, Account where amount branch name='Nigdi'; Table before: Account:-+----+ | Acc no | branch name | balance | +----+ | C8382381670 | Akurdi | 13400 | | C8382381671 | Bund Garden | 10000 | | C8392380567 | Vishrantwadi | 5500 | 6500 | | C8392380568 | Viman Nagar | | C8392380570 | Akurdi | 12500 | | C8482381665 | Bund Garden | 55004 | | C8482381671 | Akurdi | 50000 | | C8482381765 | Viman Nagar | 75004 I | C8482381766 | Nigdi | 34000 | +----+ Branch:+-----+ | branch name | branch city | assets | +----+ | Bund Garden | Pune | 12000000 | | Nigdi | Pune | 120000 | | 13000000 | | 9000000 | | Viman Nagar | Mumbai | Vishrantwadi | Pune +----+ Loan:+----+ | loan no | branch name | amount | +----+ | loan123 | Viman Nagar | 35000 | | loan124 | Bund Garden | 40000 | | loan127 | Viman Nagar | 45000 | +----+ Tables After: Account:+-----+ | Acc_no | branch_name | balance | +----+ | C8382381670 | Akurdi | 13400 | | C8382381671 | Bund Garden | 10000 | | C8392380567 | Vishrantwadi | 5500 | | C8392380568 | Viman Nagar | 6500 | | C8392380570 | Akurdi 12500 | | C8392380670 | Akurdi | 10500 | C8392381670 | Dhanori | 10500 | | C8482381665 | Bund Garden | 55004 | | C8482381671 | Akurdi | 50000 | | C8482381765 | Viman Nagar | 75004 | +----+ Branch:+-----+ | branch name | branch city | assets | +----+ | Bund Garden | Pune | 12000000 | | 8000000 | | Dhanori | Mumbai | Viman Nagar | Mumbai | 13000000 | | Vishrantwadi | Pune | 9000000 | +----+

Loan:+----+

```
| loan_no | branch_name | amount |
+----+
| loan123 | Viman Nagar | 35000 |
| loan124 | Bund Garden | 40000 |
| loan127 | Viman Nagar | 45000 |
+----+
```

16.CREATE VIEW cust as SELECT * from customer; Select * from Cust;

Output:

+ cust_name +	+ cust_street +	++ cust_city
Baljeet Harshika Kimaya Nachiket Noopur Noopur Rajeev Sherlock Shyam Soham Tejas	Station Road Symboisis Road Virar Road SNT Road SNT Road Station Road Marine Drive 221B-Baker Str Denshaw Road Law clg Road Porwal Road	Pimpri-Chinchwad Pune

Name: Tejas . R. Machkar

ROIINO: 23

PRN: F18112025

Batch: P

DBMSK-Assignment- 02 6 03 Question: (91) How can we make use of CREATE stakements to creak multiple object? A.1) We can use CREATE statement to create multiple tables and views: Eq: CREATE TABLE dept (dept-name VARCHAR (10), building-no NUMBER, fees INTEGER); CREATE VIEW faculty as SELECT id, name, dept_name FROM instructor; 92) Whatis a view? How can it be helpful to a user? A-2) A view is a virtual table. This a data object that doesn't contain any data, contents of a view are derived from a base table. They're operated just like the base table but don't contain any data of their own. The querry stored in a view is computed everytime the view is referenced, thus we always recieve the consistent data directly from base table. > Uses of views: is Secureity: When we want a user to access or view only some fields of a base table then views can be helpful. is querry simplicity: A view can contain data from several tables, thus it's helpful in converting multitable queries into single table queries. in Structural Simplicity: Views can provide a user a personalised view of the DB, presenting the DB as virtual tables that make sense to that user. ivy Consistency: Niews present a consistent, unchanged view of the underlying tables even if source tables are split, restructured or renamed. vy pata integrity: When data is modified his niews, some integrity constraints are used as in the base tables

93) What's an index? What're the type of indires?
A.3) is Index is a data structure that implies improves the speed of
openations in a table.
iis They can creak one or more columns.
iii) Indexes are tables which keep primary key or index field as a pointer
to reach a paceticular record in actual table.
iv) Syntax: CREATE INDEX index-name on table name (col-name (s));
> Types of indices
· i> Single-column indices
ii) Unique-indices: Doesn't allow duplicate lalves, to be inserted into
base table.
iii) Composite indices: multicolumn index.
Termostic Cies 7
(94) What's a sequence? How's it genevaled in MY891?
A.4 p.A sequence is a set of intis that are genevialed and supported
by some DBMs to produce unique values on demand.
2) Used in many apps that require each row in a table to contain
a unique value and sequences provide an easy way to geneviate
e) A secure is Myson is considered to the
3) A seavence in MYSQL is generialed by setting the auto-generialed
increment attribute to a column which genewally a PK.
Eg: CREATE table student(
rollno INT AUTO-INCREMENT PRIMARY KEY; name VARCHAR (20));
TIGHTE VARCABLE (201),
95) How to create synonymy in my MYSQL?
A-5) is Synonyms can be created using create synonym db () procedure
ii) Given a schema name, this procedure creaks a synonym schema
containing views that refer to all the tables and views in the owiginal
schema. Schema de la seria dela seria della
iii) Parameters:
-in-db_name varchar (64): The name of the schema for which to

creale synonym.	Ber Tegel
in-synanym NARCHAR (su): The name to use for synonym sc	hema. This
schema name mustnit already exist.	
The state of the s	13999
D6) Which different commands are used to modify a db object	- 3
A.6) i) ALTER: Command to make changes in an already ex	
design, many management was a many many many many many many many ma	386
2) PROP: Command to delete a table, column.	
s) RENAME: Command to rename an existing db obj like tables	or columns.
	3.9%
(97) List down the different openeators suppossed by MYSGL.	
A.7) i> Comparison operators:	MART COR
· Equality (=) iv) TEXT opechators:	A (- (OT A
· 18 and NULL - safe companison . LIKE, SOUNDS LIKE	REGEXP
· 18 and BOOLEAN compacision	ama A. A.
· Greaker than and less than >, < v) Bitwise openators	Charles of
· BETWEEN	A MONTH OF LOS
• IN	
its Logical operator:	
NOT, AND, OR , XOR	
iii) Aveithmetic openator:	
+,-,*,/	
08) Differentiale between DELETE, DROP and TRUNCATE.	
A-8) i) DELFTE command is used to remove some fall ro	ows from the
table.	
is TRUNCATE removes all rows from the table.	
iii> DROP removes a table from the DB.	
DROP and TRUNCATE are DDL commands whereas DEL	FTE IS DML