Name: Gourangi Taware Roll no:TECOB267

SQL Worksheet

```
1  SELECT * FROM Account;
```

ACC_NO	BRANCH_NAME	BALANCE
1	Akurdi	10000
2	Chinchwad	15000
3	Pune	40000
4	Nigdi	25000
5	Akurdi	20000
6	Akurdi	27000
7	Chinchwad	40000

Download CSV

7 rows selected.

SQL Worksheet

```
1
2  select * from Branch;
```

BRANCH_NAME	BRANCH_CITY	ASSETS
Akurdi	Pune	No Assets
Chinchwad	Pune	Near Elpro Mall
Nigdi	Pune	Government
Pune	Pune-City	No Assets

Download CSV

4 rows selected.

SQL Worksheet

```
1  select * from Customer;
2
```

CUST_NAME	CUST_STREET	CUST_CITY
Sanjay	Link Road	Pune
Vaishali	MG Road	Pune
Sunita	FS Road	Pune
Dilip	FS Road	Pune
Nikita	MG Road	Pune
Vikas	Link Road	Pune
Sam	Deccan	Pune-City

Download CSV

7 rows selected.

SQL Worksheet

```
1  select * from Depositor;
2
```

CUST_NAME	ACC_NO
Dilip	1
Vaishali	2
Sam	3
Sunita	4
Nikita	5
Sanjay	6
Vikas	7

Download CSV

7 rows selected.

SQL Worksheet

```
1  select * from loan;
2
```

LOAN_NO	BRANCH_NAME	AMOUNT
1000	Chinchwad	50000
1002	Chinchwad	70000
1003	Akurdi	55000
1004	Nigdi	80000
1005	Akurdi	45000

Download CSV
5 rows selected.

SQL Worksheet

```
1  select * from Borrower;
```

CUST_NAME	LOAN_NO
Vaishali	1000
Vikas	1002
Dilip	1003
Sunita	1004
Nikita	1005

Download CSV
5 rows selected.

Q1. Find the names of all branches in loan relation.

SQL Worksheet

```
1  select distinct Branch_Name from Loan;
```

BRANCH_NAME
Chinchwad
Nigdi
Akurdi

Download CSV
3 rows selected.

Q2. Find all loan numbers for loans made at Akurdi Branch with loan amount > 12000

SQL Worksheet

```
1  select loan_no from loan
2  where branch_name='Akurdi' and amount>12000;
```

LOAN_NO
1003
1005

Download CSV

2 rows selected.

Q3. Find all customers who have a loan from bank. Find their names ,loan_no and loan amount.

SQL Worksheet

```
1  select B.cust_name,B.loan_no,L.Amount
2  from Borrower B , Loan L
3  where B.loan_no=L.loan_no;
4
```

CUST_NAME	LOAN_NO	AMOUNT
Vaishali	1000	50000
Vikas	1002	70000
Dilip	1003	55000
Sunita	1004	80000
Nikita	1005	45000

Download CSV

5 rows selected.

Q4. List all customers in alphabetical order who have loan from Akurdi branch.

SQL Worksheet

```
1  select * from Borrower
2  where loan_no in
3      (select loan_no from loan
4      where branch_name='Akurdi')
```

CUST_NAME	LOAN_NO
Dilip	1003
Nikita	1005

Download CSV

2 rows selected.

Q5. Find all customers who have an account or loan or both at bank.

SQL Worksheet

```
1  select cust_name from Depositor
2  UNION
3  select cust_name from Borrower;
```

CUST_NAME
Dilip
Nikita
Sam
Sanjay
Sunita
Vaishali
Vikas

Download CSV

7 rows selected.

Q6. Find all customers who have both account and loan at bank.

SQL Worksheet

```
1  select cust_name from Depositor
2  where cust_name in
3  (select cust_name from Borrower);
```

CUST_NAME
Vaishali
Vikas
Dilip
Sunita
Nikita

Download CSV

5 rows selected.

Q7. Find all customer who have account but no loan at the bank.

SQL Worksheet

```
1  select cust_name from Depositor
2  where cust_name not in
3  (select cust_name from Borrower);
```

CUST_NAME
Sam
Sanjay

Download CSV

2 rows selected.

Q8. Find average account balance at Akurdi branch.

SQL Worksheet

```
1  select avg(balance) as Average_Balance from Account
2  where branch_name='Akurdi';
```

AVERAGE_BALANCE
19000

Download CSV

Q9. Find the average account balance at each branch

SQL Worksheet

```
1  select branch_name,avg(balance) as Average_Balance from Account
2  group by branch_name;
3
```

BRANCH_NAME	AVERAGE_BALANCE
Pune	40000
Chinchwad	27500
Nigdi	25000
Akurdi	19000

Download CSV

4 rows selected.

Q10. Find no. of depositors at each branch.

SQL Worksheet

```
1  select branch_name, count(acc_no) from account
2  group by branch_name;
3
```

BRANCH_NAME	COUNT(ACC_NO)
Pune	1
Chinchwad	2
Nigdi	1
Akurdi	3

Download CSV

4 rows selected.

Q11. Find the branches where average account balance > 12000

SQL Worksheet

```
1  select branch_name, avg(balance) as Average_Balance from account
2  group by branch_name
3  having avg(balance)>12000;
4
```

BRANCH_NAME	AVERAGE_BALANCE
Pune	40000
Chinchwad	27500
Nigdi	25000
Akurdi	19000

Download CSV

4 rows selected.

Q12. Find number of tuples in customer relation.

SQL Worksheet

```
1  select count(*) as Total_Tuples from customer;
2
3
```

TOTAL_TUPLES
7

Download CSV

Q13. Calculate total loan amount given by bank.

SQL Worksheet

```
1  select sum(amount) as Total_Loan from loan;
2
3
```

TOTAL_LOAN
300000

Download CSV

Q14. Delete all loans with loan amount between 50000 and 60000.

SQL Worksheet

```
1  delete from loan where amount between 50000 and 60000;
2  select * from loan;
3
4
```

2 row(s) deleted.

LOAN_NO	BRANCH_NAME	AMOUNT
1002	Chinchwad	70000
1004	Nigdi	80000
1005	Akurdi	45000

Download CSV

3 rows selected.

Q15. Delete all tuples at every branch located in Nigdi.

```
delete from account where branch_name='Nigdi'
```

1 row(s) deleted.

Q.16. Create synonym for customer table as cust.

SQL Worksheet

```
1  create SYNONYM cust for customer;
2  select * from cust;
3
```

Synonym created.

CUST_NAME	CUST_STREET	CUST_CITY
Sanjay	Link Road	Pune
Vaishali	MG Road	Pune
Sunita	FS Road	Pune
Dilip	FS Road	Pune
Nikita	MG Road	Pune
Vikas	Link Road	Pune
Sam	Deccan	Pune-City

Download CSV

7 rows selected.

Q.17. Create sequence roll_seq and use in student table for roll_no column.

SQL Worksheet

```
1  CREATE TABLE students
2  (
3  Roll_no int primary key,
4  Student_name varchar(20)
5  );
6  CREATE SEQUENCE sequence_1
7  start with 1
8  increment by 1
9  minvalue 1
10 maxvalue 100
11 nocycle;
12 INSERT into students VALUES(sequence_1.nextval,'Ramesh');
13 INSERT into students VALUES(sequence_1.nextval,'Suresh');
14 INSERT into students VALUES(sequence_1.nextval,'Ganesh');
15 select * from students;
```

SQL Worksheet

```
Table created.

Sequence created.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

ROLL_NO	STUDENT_NAME
1	Ramesh
2	Suresh
3	Ganesh

Download CSV

3 rows selected.