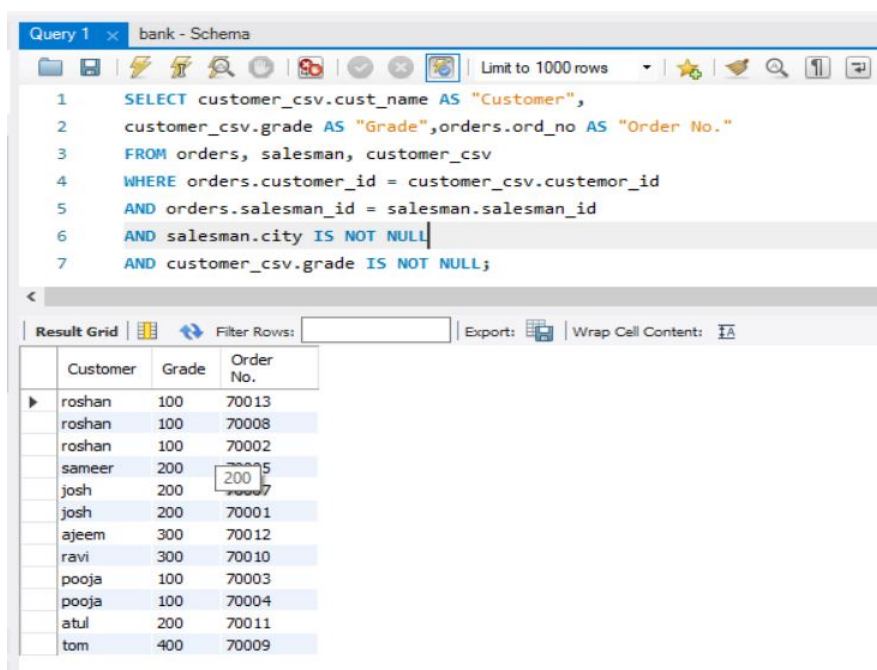


SQL TEST

Question 1:

Query: SELECT customer_csv.cust_name AS "Customer",
customer_csv.grade AS "Grade",orders.ord_no AS "Order No."
FROM orders, salesman, customer_csv
WHERE orders.customer_id = customer_csv.custemor_id
AND orders.salesman_id = salesman.salesman_id
AND salesman.city IS NOT NULL
AND customer_csv.grade IS NOT NULL;



The screenshot shows a SQL query editor window titled "Query 1" with a toolbar and a "Limit to 1000 rows" dropdown. The query is as follows:

```
1 SELECT customer_csv.cust_name AS "Customer",
2 customer_csv.grade AS "Grade",orders.ord_no AS "Order No."
3 FROM orders, salesman, customer_csv
4 WHERE orders.customer_id = customer_csv.custemor_id
5 AND orders.salesman_id = salesman.salesman_id
6 AND salesman.city IS NOT NULL
7 AND customer_csv.grade IS NOT NULL;
```

Below the query editor, the "Result Grid" is displayed with the following data:

	Customer	Grade	Order No.
▶	roshan	100	70013
	roshan	100	70008
	roshan	100	70002
	sameer	200	70005
	josh	200	70007
	josh	200	70001
	ajeem	300	70012
	ravi	300	70010
	pooja	100	70003
	pooja	100	70004
	atul	200	70011
	tom	400	70009

Question 2:

Query: SELECT ord_no, purch_amt, ord_date, salesman_id
FROM orders
WHERE salesman_id IN(SELECT salesman_id FROM salesman WHERE commision = (SELECT
MAX(commision) FROM salesman));

Query 1 x bank - Schema

Limit to 1000 rows

```

7 AND customer_csv.grade IS NOT NULL;
8
9 • SELECT ord_no, purch_amt, ord_date, salesman_id
10 FROM orders
11 WHERE salesman_id IN(SELECT salesman_id FROM salesman WHERE commision = (SELECT MAX(commision) FROM salesman));
12

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ord_no	purch_amt	ord_date	salesman_id
▶	70002	65.26	05-10-2012	5001
	70005	2400.6	27-07-2012	5001
	70008	5760	10-09-2012	5001
	70013	3045.6	25-04-2012	5001

Question 3

Query: SELECT ord_no, purch_amt, ord_date, salesman_id
FROM orders
WHERE salesman_id IN (SELECT salesman_id FROM salesman
WHERE city = 'Nagpur');

Limit to 1000 rows

```

10 FROM orders
11 WHERE salesman_id IN(SELECT salesman_id FROM salesman WHERE commision = (SELECT MAX(commision) FROM salesman));
12
13 • SELECT ord_no, purch_amt, ord_date, salesman_id FROM orders WHERE salesman_id IN (SELECT salesman_id FROM salesman WHERE city = 'Nagpur');
14
15

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ord_no	purch_amt	ord_date	salesman_id
▶	70011	75.29	17-08-2012	5007

Question 4

Query: SELECT ord_date, SUM(purch_amt), SUM(purch_amt)*.15 FROM orders
GROUP BY ord_date
ORDER BY ord_date ASC;

Query 1 x bank - Schema

Limit to 1000 rows

```

14
15 • SELECT ord_date, SUM(purch_amt), SUM(purch_amt)*.15 FROM orders
16 GROUP BY ord_date
17 ORDER BY ord_date ASC;
18
19

```

Result Grid

ord_date	SUM(purch_amt)	SUM(purch_amt)*.15
05-10-2012	215.76	32.364
10-09-2012	6708.5	1006.275
10-10-2012	4463.83	669.5745
17-08-2012	75.29	11.2935
2012-08-17	110.5	16.575
2012-09-10	270.65	40.5975
25-04-2012	3045.6	456.84
27-06-2012	250.45	37.567499999999995
27-07-2012	2400.6	360.09

Question 5

Query: SELECT ord_no, purch_amt, ord_date, salesman_id

FROM orders

WHERE purch_amt > (SELECT AVG(purch_amt) FROM orders);

```

15 • SELECT ord_date, SUM(purch_amt), SUM(purch_amt)*.15 FROM orders
16 GROUP BY ord_date
17 ORDER BY ord_date ASC;
18
19 • SELECT ord_no, purch_amt, ord_date, salesman_id FROM orders WHERE purch_amt > (SELECT AVG(purch_amt) FROM orders );
20

```

Result Grid

ord_no	purch_amt	ord_date	salesman_id
70005	2400.6	27-07-2012	5001
70008	5760	10-09-2012	5001
70010	1983.43	10-10-2012	5006
70003	2480.4	10-10-2012	5003
70013	3045.6	25-04-2012	5001

Question 6

Query: select * from orders ORDER BY purch_amt desc limit 4,1;

```

20
21 • select * from orders ORDER BY purch_amt desc limit 4,1;
22

```

Result Grid

ord_no	purch_amt	ord_date	customer_id	salesman_id
70013	3045.6	25-04-2012	3002	5001

Question 7

An entity is an easily recognizable living or non-living real world objects.

Eg: Student, Customer, etc..

A relationship is an association between two entities.

Eg: A customer buys a product.

Question 8

Query: Select customer_id , ba.account_number,

Case when ifnull(balance_amount,0) = 0 then Transaction_amount else balance_amount end as balance_amount

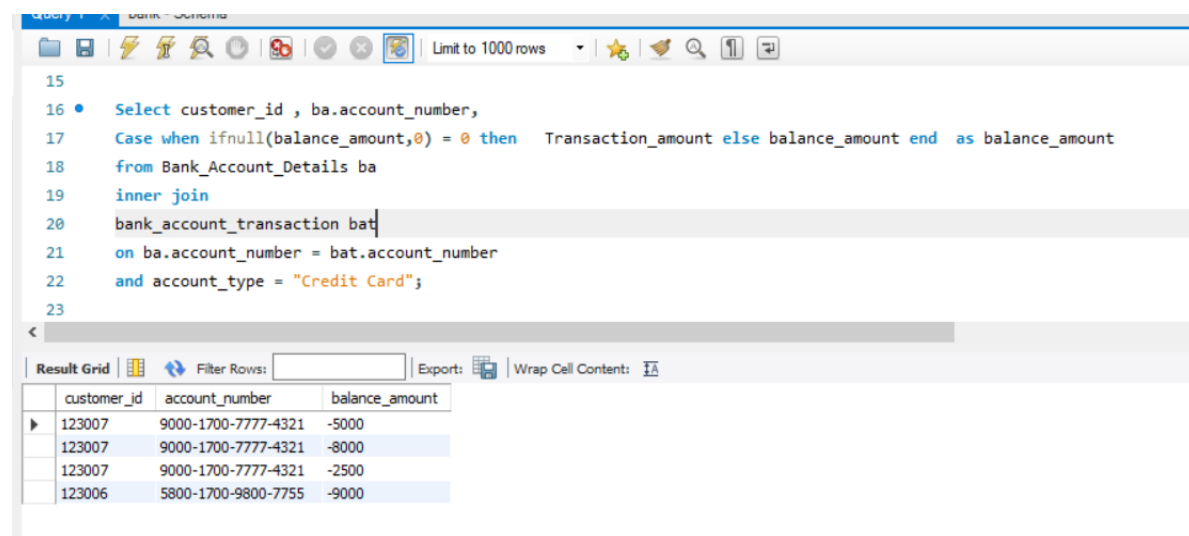
from Bank_Account_Details ba

inner join

bank_account_transaction bat

on ba.account_number = bat.account_number

and account_type = "Credit Card";



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```
15
16 • Select customer_id , ba.account_number,
17 Case when ifnull(balance_amount,0) = 0 then Transaction_amount else balance_amount end as balance_amount
18 from Bank_Account_Details ba
19 inner join
20 bank_account_transaction bat
21 on ba.account_number = bat.account_number
22 and account_type = "Credit Card";
23
```

Below the query, there is a 'Result Grid' section with a table containing the following data:

customer_id	account_number	balance_amount
123007	9000-1700-7777-4321	-5000
123007	9000-1700-7777-4321	-8000
123007	9000-1700-7777-4321	-2500
123006	5800-1700-9800-7755	-9000

Question 9

Query: Select ba.Account_Number, Balance_amount, Transaction_amount, Transaction_Date

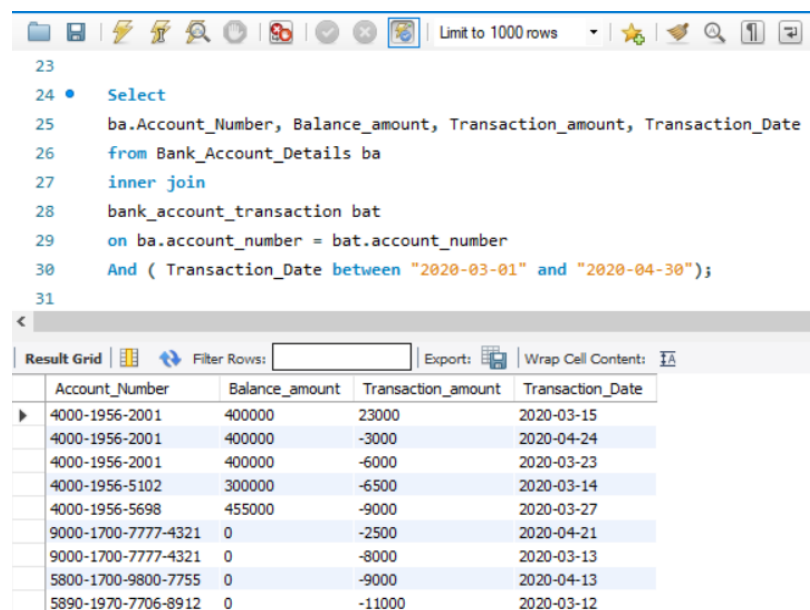
from Bank_Account_Details ba

inner join

bank_account_transaction bat

on ba.account_number = bat.account_number

And (Transaction_Date between "2020-03-01" and "2020-04-30");



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```

23
24 • Select
25   ba.Account_Number, Balance_amount, Transaction_amount, Transaction_Date
26   from Bank_Account_Details ba
27   inner join
28   bank_account_transaction bat
29   on ba.account_number = bat.account_number
30   And ( Transaction_Date between "2020-03-01" and "2020-04-30");
31

```

Below the query, the 'Result Grid' is displayed with the following data:

	Account_Number	Balance_amount	Transaction_amount	Transaction_Date
▶	4000-1956-2001	400000	23000	2020-03-15
	4000-1956-2001	400000	-3000	2020-04-24
	4000-1956-2001	400000	-6000	2020-03-23
	4000-1956-5102	300000	-6500	2020-03-14
	4000-1956-5698	455000	-9000	2020-03-27
	9000-1700-7777-4321	0	-2500	2020-04-21
	9000-1700-7777-4321	0	-8000	2020-03-13
	5800-1700-9800-7755	0	-9000	2020-04-13
	5890-1970-7706-8912	0	-11000	2020-03-12

Question 10

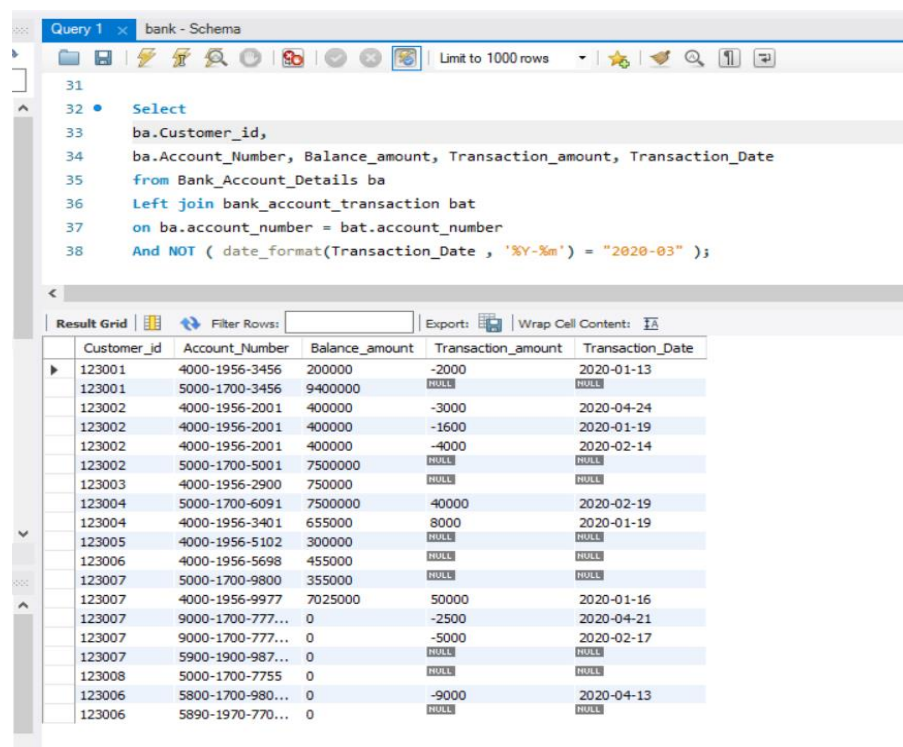
Query: Select ba.Customer_id,

ba.Account_Number, Balance_amount, Transaction_amount, Transaction_Date

from Bank_Account_Details ba Left join bank_account_transaction bat

on ba.account_number = bat.account_number

And NOT (date_format(Transaction_Date , '%Y-%m') = "2020-03");



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```

31
32 • Select
33   ba.Customer_id,
34   ba.Account_Number, Balance_amount, Transaction_amount, Transaction_Date
35   from Bank_Account_Details ba
36   Left join bank_account_transaction bat
37   on ba.account_number = bat.account_number
38   And NOT ( date_format(Transaction_Date , '%Y-%m') = "2020-03" );

```

Below the query, the 'Result Grid' is displayed with the following data:

	Customer_id	Account_Number	Balance_amount	Transaction_amount	Transaction_Date
▶	123001	4000-1956-3456	200000	-2000	2020-01-13
	123001	5000-1700-3456	9400000	NULL	NULL
	123002	4000-1956-2001	400000	-3000	2020-04-24
	123002	4000-1956-2001	400000	-1600	2020-01-19
	123002	4000-1956-2001	400000	-4000	2020-02-14
	123002	5000-1700-5001	7500000	NULL	NULL
	123003	4000-1956-2900	750000	NULL	NULL
	123004	5000-1700-6091	7500000	40000	2020-02-19
	123004	4000-1956-3401	655000	8000	2020-01-19
	123005	4000-1956-5102	300000	NULL	NULL
	123006	4000-1956-5698	455000	NULL	NULL
	123007	5000-1700-9800	355000	NULL	NULL
	123007	4000-1956-9977	7025000	50000	2020-01-16
	123007	9000-1700-777...	0	-2500	2020-04-21
	123007	9000-1700-777...	0	-5000	2020-02-17
	123007	5900-1900-987...	0	NULL	NULL
	123008	5000-1700-7755	0	NULL	NULL
	123006	5800-1700-980...	0	-9000	2020-04-13
	123006	5890-1970-770...	0	NULL	NULL