

Assignment (MYSQL)

Name : Shobhit Gaidhane Branch : Pimpri Sid : #16772

SET A :

Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to (viii) which are based on tables

TABLE : ACCOUNT

ANO	ANAME	ADDRESS
101	Nirja Singh	Bangalore
102	Rohan Gupta	Chennai
103	Ali Reza	Hyderabad
104	Rishabh Jain	Chennai
105	Simran Kaur	Chandigarh

TABLE: TRANSACT

TRNO	ANO	AMOUNT	TYPE	DOT
T001	101	2500	Withdraw	2017-12-21
T002	103	3000	Deposit	2017-06-01
T003	102	2000	Withdraw	2017-05-12
T004	103	1000	Deposit	2017-10-22
T005	102	12000	Deposit	2017-11-06

queries* x

1 • show databases;
2 • use assignments;
3 • show tables;
4 • select * from account;
5

Result Grid | Filter Rows:

	ANO	ANAME	ADDRESS
▶	101	Niraj Singh	Bangalore
	102	Rohan Gupta	Chennai
	103	Ali Reza	Hydrabad
	104	Rishabh Jain	Chennai
	105	Simran Kaur	Chandigarh
•	NULL	NULL	NULL

queries* x

1 • show databases;
2 • use assignments;
3 • show tables;
4 • select * from account;
5 • select * from transact;

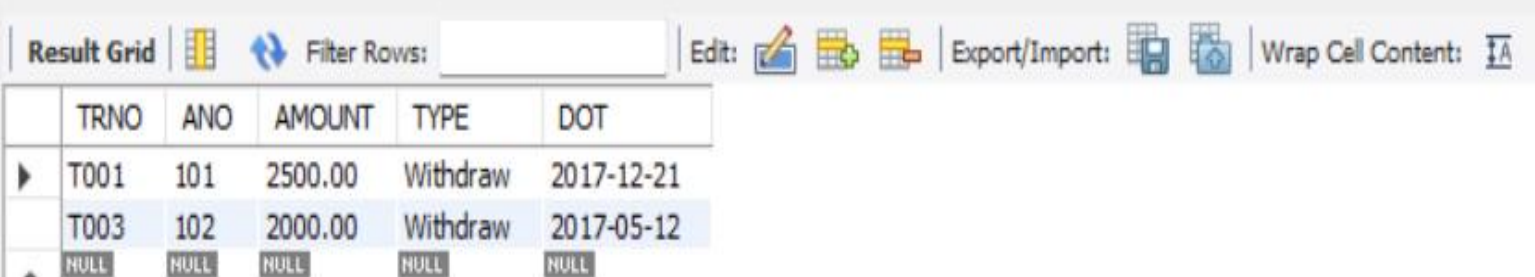
Result Grid | Filter Rows: | Edit:

	TRNO	ANO	AMOUNT	TYPE	DOT
▶	T001	101	2500.00	Withdraw	2017-12-21
	T002	103	3000.00	Deposit	2017-06-01
	T003	102	2000.00	Withdraw	2017-05-12
	T004	103	1000.00	Deposit	2017-10-22
	T005	102	12000.00	Deposit	2017-11-06
•	NULL	NULL	NULL	NULL	NULL

Q.1] To Display details of all transactions of Type withdraw from Transact table ?

:

```
6 # Q.1] To Display details of all transactions of Type withdraw from Transact table .
7 • Select * from transact where TYPE = 'Withdraw';
```



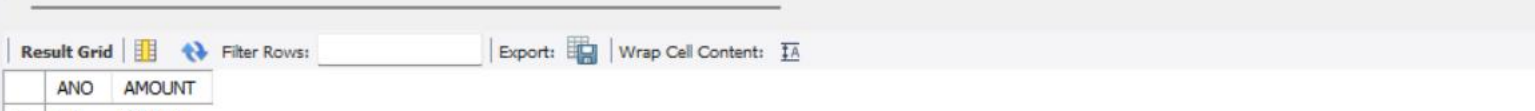
The screenshot shows a database query result grid. The toolbar includes 'Result Grid', 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content'. The result grid displays the following data:

	TRNO	ANO	AMOUNT	TYPE	DOT
▶	T001	101	2500.00	Withdraw	2017-12-21
	T003	102	2000.00	Withdraw	2017-05-12
*	NULL	NULL	NULL	NULL	NULL

Q.2] To display details ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT?

:

```
8 #Q.2] To display details ANO and AMOUNT of all Deposite and Withdrawals done in month of 'May' 2017 from table TRANSACT?
9 • select ANO,AMOUNT from TRANSACT where Date_Format(DOT,'%Y-%m') = '2017-05';
```




The screenshot shows a database query result grid. The toolbar includes 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The result grid displays the following data:

	ANO	AMOUNT
▶	102	2000.00

Q.3] To Display the first date of transaction DOT from the Transact for account having ANO as 102 ?

:

```
10 # Q.3] To Display the first date of transaction DOT from the Transact for account having ANO as 102 ?
11 • select min(DOT) from transact where ANO = 102 ;
12 # Q.4] To Display first date of transaction (DOT) of those persons from Account and Transact table who have done transaction less
13 • SELECT A.ANO, A.ANAME, A.ADDRESS, MIN(T.DOT) AS First_Transaction_Date FROM Account A JOIN Transact T ON A.ANO = T.ANO
14 WHERE T.AMOUNT <= 3000
15 GROUP BY A.ANO, A.ANAME, A.ADDRESS;
16
```



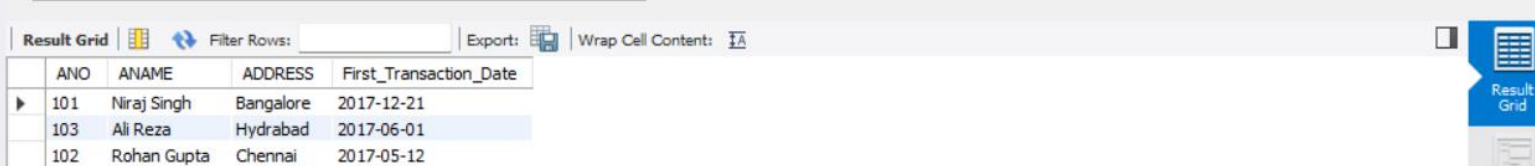
The screenshot shows a database query result grid. The toolbar includes 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The result grid displays the following data:

	min(DOT)
▶	2017-05-12

Q.4] To Display first date of transaction (DOT) of those persons from Account and Transact table who have done transaction less than or equal to 3000 ?

:

```
10 # Q.3] To Display first date of transaction (DOT) of those persons from Account and Transact table who have done transaction less t
11 • SELECT A.ANO, A.ANAME, A.ADDRESS, MIN(T.DOT) AS First_Transaction_Date FROM Account A JOIN Transact T ON A.ANO = T.ANO
12 WHERE T.AMOUNT <= 3000
13 GROUP BY A.ANO, A.ANAME, A.ADDRESS;
14
```



The screenshot shows a database query result grid. The toolbar includes 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The result grid displays the following data:

	ANO	ANAME	ADDRESS	First_Transaction_Date
▶	101	Niraj Singh	Bangalore	2017-12-21
	103	Ali Reza	Hydrabad	2017-06-01
	102	Rohan Gupta	Chennai	2017-05-12

Q.5] Select ANO,ANAME From Account ?

:

16 # Q.5] Select ANO, ANAME From Account ?
17 • select ANO, ANAME From Account;

Result Grid

	ANO	ANAME
▶	101	Niraj Singh
	102	Rohan Gupta
	103	Ali Reza
	104	Rishabh Jain
	105	Simran Kaur
*	NULL	NULL

Result Grid
Form Editor

Q.6] Select Distinct ANO From Transact ?

:

18 # Q.6] Select Distinct ANO From Transact ?
19 • Select distinct(ANO) from transact;

Result Grid

	ANO
▶	101
	103
	102

Result Grid

Q.7] Select Count(*), Sum(Amount) From Transact where DOT <= '2017-10-01' ?

:

20 # Q.7] Select Count(*), Sum(Amount) From Transact where DOT <= '2017-10-01' ?
21 • select count(*), sum(Amount) from transact where DOT <= '2017-10-01';

Result Grid

	count(*)	sum(Amount)
▶	2	5000.00

Result Grid

SET B :

Consider the following tables EMP and SALGRADE, write the query for (i) to (vi) and output for (vii) to (x)

TABLE: EMPLOYEE

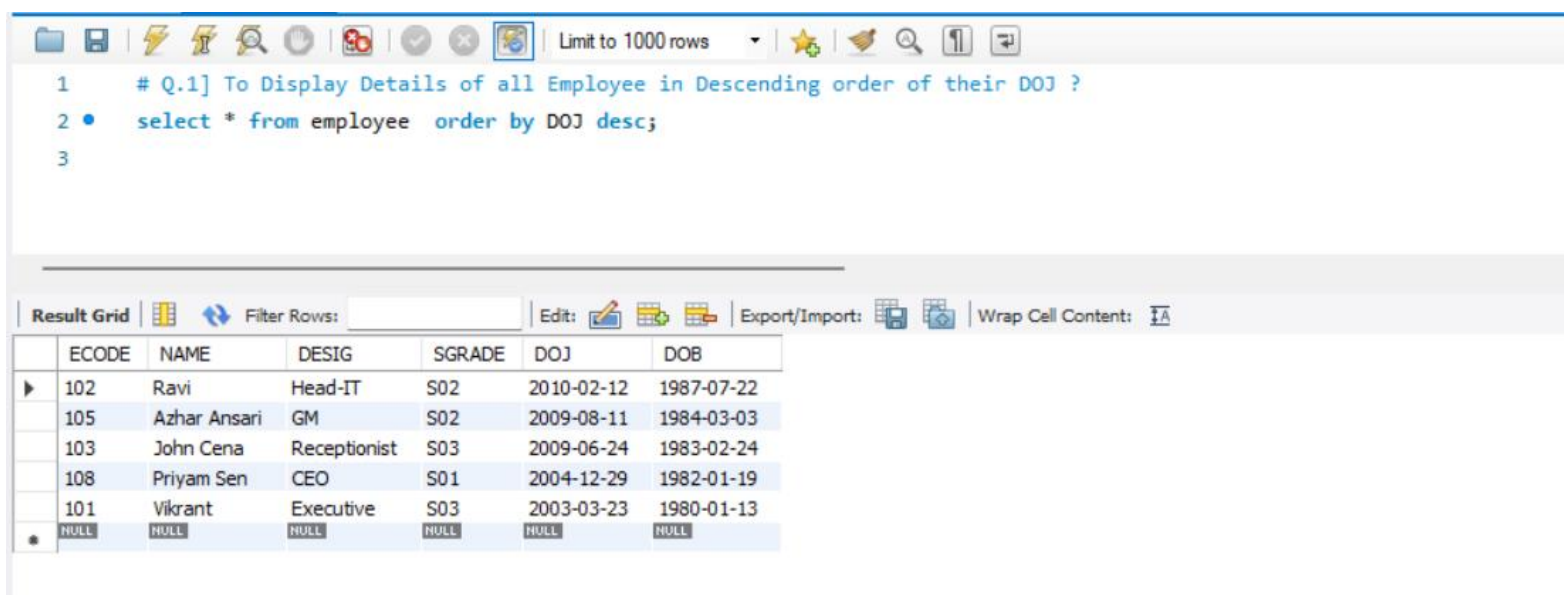
ECODE	NAME	DESIG	SGRADE	DOJ	DOB
101	Vikrant	Executive	S03	2003-03-23	1980-01-13
102	Ravi	Head-IT	S02	2010-02-12	1987-07-22
103	John Cena	Receptionist	S03	2009-06-24	1983-02-24
105	Azhar Ansari	GM	S02	2009-08-11	1984-03-03
108	Priyam Sen	CEO	S01	2004-12-29	1982-01-19

TABLE: SALGRADE

SGRADE	SALARY	HRA
S01	56000	18000
S02	32000	12000
S03	24000	8000

Q.1] To Display Details of all Employee in Descending order of their DOJ ?

:



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

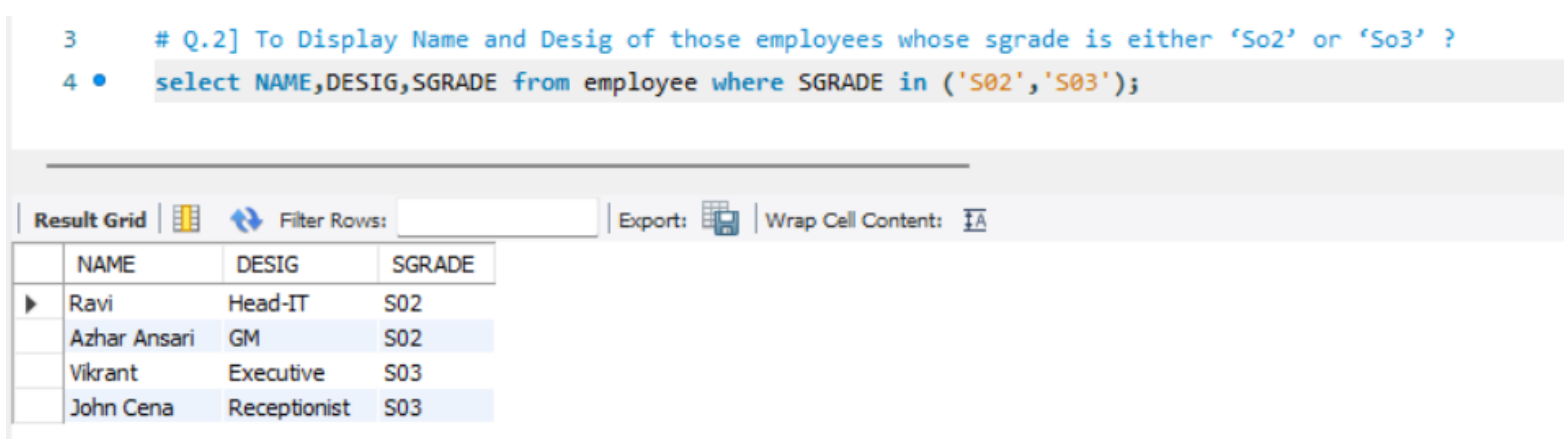
```
1 # Q.1] To Display Details of all Employee in Descending order of their DOJ ?
2 • select * from employee order by DOJ desc;
3
```

Below the query editor is the 'Result Grid' section. It includes a 'Filter Rows' input field and buttons for 'Edit', 'Export/Import', and 'Wrap Cell Content'. The result grid displays the following data:

	ECODE	NAME	DESIG	SGRADE	DOJ	DOB
▶	102	Ravi	Head-IT	S02	2010-02-12	1987-07-22
	105	Azhar Ansari	GM	S02	2009-08-11	1984-03-03
	103	John Cena	Receptionist	S03	2009-06-24	1983-02-24
	108	Priyam Sen	CEO	S01	2004-12-29	1982-01-19
	101	Vikrant	Executive	S03	2003-03-23	1980-01-13
*	NULL	NULL	NULL	NULL	NULL	NULL

Q.2] To Display Name and Desig of those employees whose sgrade is either 'So2' or 'So3' ?

:



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

```
3 # Q.2] To Display Name and Desig of those employees whose sgrade is either 'So2' or 'So3' ?
4 • select NAME,DESIG,SGRADE from employee where SGRADE in ('S02','S03');
```

Below the query editor is the 'Result Grid' section. It includes a 'Filter Rows' input field and buttons for 'Export' and 'Wrap Cell Content'. The result grid displays the following data:

	NAME	DESIG	SGRADE
▶	Ravi	Head-IT	S02
	Azhar Ansari	GM	S02
	Vikrant	Executive	S03
	John Cena	Receptionist	S03

Q.3] To Display Name and Desig of those employees who joined in the year 2009 ?

:


```

5      # Q.3] To Display Name and Desig of those employees who joined in the year 2009 ?
6 •    select NAME,DESIG,SGRADE from employee where Year(DOJ) = 2009;

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
NAME	DESIG	SGRADE	
John Cena	Receptionist	S03	
Azhar Ansari	GM	S02	

Q.4] To Display all SGRADE,AUNNAL_SALARY from table SALGRADE [where ANNAUAL_SALARY = SALARY*12] ?

:

```

7      # Q.4] To Display all SGRADE as AUNNAL_SALARY from table SALGRADE [ where ANNAUAL_SALARY = SALARY*12]
8 •    select sgrade,(salary*12) as annual_salary from salgrade;

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
sgrade	annual_salary		
S01	672000		
S02	384000		
S03	288000		

Q.5] To display the number of employees working in each SALGRADE from the EMPLOYEE table?

:

```

9      # Q.5] To display the number of employees working in each SALGRADE from the EMPLOYEE table?
10 •   select * from employee;
11 •   select sgrade,count(*) as employee_count from employee group by sgrade;
12

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
sgrade	employee_count		
S01	1		
S02	2		
S03	2		

Q.6]To display NAME, DESIG, SALARY, and HRA from EMPLOYEE and SALGRADE where SALARY is less than 50,000?

:

```

13 # Q.6]To display NAME, DESIG, SALARY, and HRA from EMPLOYEE and SALGRADE where SALARY is less than 50,000?
14 • SELECT E.NAME, E.DESIG, S.SALARY, S.HRA
15 FROM EMPLOYEE E
16 JOIN SALGRADE S ON E.SGRADE = S.SGRADE
17 WHERE S.SALARY < 50000;
18
19

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	NAME	DESIG	SALARY	HRA
▶	Ravi	Head-IT	32000	12000
	Azhar Ansari	GM	32000	12000
	Vikrant	Executive	24000	8000
	John Cena	Receptionist	24000	8000

Q.7] Select SGRADE and (SALARY + HRA) from SALGRADE where SGRADE = 'S02' ?

:

```

18 # Q.7] Select SGRADE and (SALARY + HRA) from SALGRADE where SGRADE = 'S02' ?
19 • select sgrade,(salary + hra ) as total_compensation from salgrade where sgrade = 'S02';
20
21

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	sgrade	total_compensation
▶	S02	44000

Q.8] Select MIN(DOJ) and MAX(DOB) from EMPLOYEE ?

:

```

20 # Q.8] Select MIN(DOJ) and MAX(DOB) from EMPLOYEE ?
21 • select min(DOJ) as oldest_join_date,max(DOB) as youngest_birth_date from employee;
22

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	oldest_join_date	youngest_birth_date
▶	2003-03-23	1987-07-22

Q.9] Select the count of distinct SGRADE from EMPLOYEE ?

:

```

22 # Q.9] Select the count of distinct SGRADE from EMPLOYEE ?
23 • select count(sgrade) from employee;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |





	count(sgrade)
▶	5

Q.10] Select the total (SUM) and average (AVG) salary from SALGRADE ?

:

24 # Q.10] Select the total (SUM) and average (AVG) salary from SALGRADE ?

25 • `select sum(salary) as total_salary, avg(salary) as average_salary from salgrade ;`

Result Grid   Filter Rows: <input type="text"/>			Export: 	Wrap Cell Content: 
	total_salary	average_salary		
▶	112000	37333.3333		

