Assignment (MYSQL)

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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*

```
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*

```
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';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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';
```

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

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
```

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

min(DOT)
2017-05-12

Result Grid

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
```

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

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

Result Grid

Q.5] Select ANO,ANAME From Account ?

:

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

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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

Q.6] Select Distinct ANO From Transact ?

:

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

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

ANO
101
103
102

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

count(*)	sum(Amount)
2	5000.00

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 ?

:

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

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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’ ?

:

```
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');
```

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

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: | Export: | Wrap Cell Content:

total_salary	average_salary
112000	37333.3333