P 42 7	Classmale
	frhesiment. Q. : 1.0. + C
	Experiment: Basic select Commands
	A: M
0	Dim - To undertand and implement basic select
	commands in SQL
0	Theory -
	0
7	Arthmetic Operators
	+ : Addition
-	-: Subtraction
33	*: Multiplication
No. 10	1: Avrion
. /	7 , WOULDN
- -	Comparison Operators
	CONTINUE DE LA CONTIN
	$=$: ℓ_{α} , ℓ_{α}
	= : Egnal to <> : Not egnal
	< : les than
=	> : Greater Than
-	L= : Les than equal to
	7= : Greater than equal to
	IN (list). Match any list of Willer
	IN (list): Match any list of values LIKE: Math a character pattern
	15 Null: granul Value
	Between AND : Between two Values
-)	Sozical Values
3	
	AND: Returns true if both conditions are type
	OR: Returns true il either condition in Time
	AND: Returns true if both conditions are true OR: Returns true if either condition is true NOT: Returns true if the condition is false
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	Scarned with Cariscarner

		classmate
7.		Date
	1 1. Al. t	(II)
	Concatenation, Operat	or CII
	1 + + + + + 1	Summer of any data type
	Concollmans and so	r will be a single
>	Remlan wown	W WW TO THE TOTAL
1	column	
	Opustor Precidence	Anthri I when all of
-	Ophianon Traceror	
5	Ordr Valuated	Ohustores
	U.May Villaman	Parantheris
)	all athmetic obvictions
	7	All compairson operators
	4	NoT
	5	AND
30 T	6	OR
1		A MAN TO THE STATE OF THE STATE
	Where Clause	John Collection Sales
9		
→	specify the selecti	on of rows retrieved by the
	where clause	
	syntae:	
	Select	column, when 2
	From	table
1	Where	condition ;
	And And And And	series :(the mesasite
	Order By Clause	
	1	1
	surty rows by or	dn-ASC/DESC
-)	M Load MY	
Link		olumn I, column 2.
A.A.a.	From 1	sort-whem DESC;
*	0 rdr 139	Sou-Comma DESC
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	Page
	Queries:
10)	Update all reads of stock table by increasing
	aty by 10 south wave my writing
	211 1 4 The state of the state
>_	Update stock set gty z gty +10;
(0,0)	Quat. 11
213)	dut all records from lab Tech table where
	dete all records from lab Tech table where
一 う	
1.	Delite from Laterh when dot 2' 1999-01-01'
3 8)	Dishlay name of hostital a tradit of Alamas
	Display name of hospital as Hospital Name, as Hospital ID as (10) of table hospital
7	Select Name as Hospital Nam, Hospital ID as ID
	from Morpital;
_4Q)	List concatenated value of name and emplo of
	managu table
	halo to Constant (1)
100	Select Concot (Name Emplo) from Manager;
59)	List all the Bire donvis name from Donoz
	table
<i>→</i>	select firstwams from Donor where blood Type= 'B+';
<u> </u>	
<u> 69)</u>	List all the details of blood table for Date of Reg before 2022/01/18
	before 2022/01/18
>	select * from blood where Date of Ry < 2022-01-18);
	V

Question 1 – Output

```
mysql> select * from stock;
 StockID | BloodID | Qty
 S101
           B101
                      115
 S102
          B102
                      220
 S103
           B103
                      890
 S104
          B104
                       90
 S105
                       45
          B105
 S106
                       25
           B106
 S107
           B107
                      102
 S108
           B108
                      108
8 rows in set (0.05 sec)
mysql> update stock set qty=qty+10;
Query OK, 8 rows affected (0.50 sec)
Rows matched: 8 Changed: 8 Warnings: 0
mysql> select * from stock;
 StockID | BloodID | Qty
 S101
           B101
                      125
 S102
           B102
                      230
 S103
           B103
                      900
 S104
           B104
                      100
 S105
                       55
           B105
 S106
           B106
                       35
 S107
          B107
                      112
                      118
 S108
           B108
8 rows in set (0.00 sec)
```

Question 2 – Output

```
nysql> select * from labtech;
 firstName | lastname | address
                                    email
                                                               dob
                                                  phone
                                    xyz@gmail.com
 Alex
             Paul
                        Australia
                                                    4556789098
                                                                 2000-03-01
                        USA
                                    tom@gmail.com | NULL
                                                                 1998-01-05
 Tom
             h
                        UK
                                                    NULL
 Pam
                                    pam@gmail.com
                                                                 2001-01-06
 Lia
             KL
                       Norway
                                    lia@gmail.com
                                                    NULL
                                                                 2002-02-02
4 rows in set (0.00 sec)
mysql> delete from labtech where date<'1999=01=01';
ERROR 1054 (42S22): Unknown column 'date' in 'where clause'
mysql> delete from labtech where dob<'1999=01=01';
Query OK, 1 row affected (0.25 sec)
mysql> select * from labtech;
 firstName | lastname | address
                                  email
                                                  phone
                                    xyz@gmail.com
pam@gmail.com
                                                                 2000-03-01
             Paul
                                                    4556789098
                        Australia
 Pam
             K
                        UK
                                                  NULL
                                                                 2001-01-06
                       Norway
 Lia
           KL
                                   lia@gmail.com
                                                  NULL
                                                                 2002-02-02
 rows in set (0.00 sec)
```

Question 3 – Output

```
mysql> desc hospital;
                          | Null | Key | Default | Extra
 Field
            Type
 HospitalID | varchar(10) |
                           NO
                                  PRI
                                        NULL
 OrderID
              varchar(30)
                           NO
                                        NULL
 Name
              varchar(30)
                           NO
                                        NULL
 Phone
              varchar(30)
                           YES
                                        NULL
 Address
            varchar(50)
                           YES
                                        NULL
 rows in set (0.13 sec)
mysql> select name as HospitalName, HospitalID AS ID FROM HOSPITAL;
 HospitalName
                ID
 Ruby Hall
                 H101
 Apollo
                 H102
 Columbia Asia
                 H103
 Nobel Hospital
                 H104
 Care Hospital
                H105
 rows in set (0.04 sec)
```

Question 4 – Output

```
mysql> select * from manager;
 EmpID | Name
                 Phone
                                Address
                                              email
                 8989870904
                                123, Pune
                                               jay@gmail.com
 M101
          Jay
                                678, Chennai
                                               sia23@gmail.com
 M102
          Sia
                 45454570904
 M103
         Aja
                 8787870904
                                890,Delhi
                                               aja@gmail.com
 M104
         Max
                 7787870904
                                55,Mumbai
                                              max@gmail.com
 rows in set (0.03 sec)
```

Question 5 – Output

```
nysql> select * from donor;
 donorID | firstName | lastname
                                   address
                                              phone
                                                           dob
                                                                         bloodType | quantity
     101
            Alex
                        Paul
                                    Germany
                                              4556789098
                                                            2000-03-01
                                                                         0+
                                                                                        230.12
     102
            Bell
                        Decroix
                                    Dutch
                                              3333339098
                                                            2003-05-06
                                                                         B+
                                                                                        111.12
     103
            Cass
                        James
                                   US
                                              6556569098
                                                            2001-06-11
                                                                                        356.89
                                                                         AB+
     104
            Jess
                        Day
                                   UK
                                              678977098
                                                            2002-08-04
                                                                                        456.77
                                                                         0-
     106
            Jerry
                        k
                                    Finland
                                              NULL
                                                           NULL
                                                                         B+
                                                                                        211.78
                        Ρ
     107
            Terry
                                   NULL
                                              NULL
                                                           NULL
                                                                         AB+
                                                                                        211.78
                        Μ
                                                            2000-03-07
                                                                                        431.18
     108
           Mia
                                   US
                                              56789907
                                                                         B+
     109
           Anna
                        May
                                   UK
                                              223489907
                                                           2004-05-07
                                                                                        543.18
                                                                         B-
8 rows in set (0.02 sec)
nysql> Select firstName from Donor where bloodType='B+';
 firstName
 Bell
 Jerry
 Mia
```

Question 6 – Output

```
mysql> select * from blood;
 BloodID | BloodType | BloodBankID | DateOfReg
 B101
           A+
                       BB101
                                      2022-01-07
 B102
           B+
                       BB102
                                      2022-01-22
 B103
           0+
                      BB102
                                      2022-02-22
 B104
           AB+
                       BB103
                                      2022-01-09
 B105
           Α-
                       BB105
                                      2022-01-19
           B-
 B106
                       BB104
                                      2022-01-29
 B107
          0-
                      BB103
                                      2022-01-18
 B108
          AB-
                      BB105
                                      2022-01-15
8 rows in set (0.25 sec)
mysql> select * from blood where DateOfReg<'2022-01-18';
 BloodID | BloodType | BloodBankID | DateOfReg
 B101
                       BB101
                                      2022-01-07
           Α+
 B104
           AB+
                       BB103
                                      2022-01-09
 B108
           AB-
                      BB105
                                      2022-01-15
 rows in set (0.00 sec)
```

Question 7 - Output

```
nysql> select * from donor;
 donorID | firstName | lastname | address | phone
                                                        dob
                                                                     | bloodType | quantity |
                                             4556789098
                                                          2000-03-01 | 0+
     101
           Alex
                       Paul
                                   Germany |
                                                                                     230.12
     102
           Bell
                       Decroix
                                             3333339098
                                                          2003-05-06
                                                                       B+
                                                                                     111.12
                                   Dutch
                                                                                     356.89
     103
           Cass
                       James
                                   US
                                             6556569098
                                                          2001-06-11
                                                                       AB+
                                                                                     456.77
     104
           Jess
                       Day
                                  UK
                                             678977098
                                                          2002-08-04
                                                                       0-
     106
                                   Finland
                                             NULL
                                                          NULL
                                                                       B+
                                                                                     211.78
           Jerry
     107
           Terry
                                  NULL
                                             NULL
                                                          NULL
                                                                       AB+
                                                                                     211.78
                                                          2000-03-07
                                                                                     431.18
     108
                                             56789907
           Mia
                                  US
                                                                       B+
                       May
     109 l
                                  UK
                                             223489907
                                                          2004-05-07
                                                                                     543.18
           Anna
                                                                       B-
8 rows in set (0.00 sec)
mysql> select firstName,lastName from donor where donorID IN (103,106,109,101);
 firstName | lastName
 Alex
             Paul
 Cass
             James
 Jerry
             k
 Anna
            May
 rows in set (0.00 sec)
```

4 97) Just the names of denine days do
1	103,106,109,101
-)	Note + Acident
ű	Visit Name, last Name from Donor
1	Select first Name, Lent Name from Donor Where Donor IN (103, 106, 109, 101);
(J8)	List the first Names is all dance and a
	List the first Names of all donny who are not of blood type AB+
->	Nolost laiture
	Select frist Ware from Donor whe BloodType 2> 'AB+).
(39)	List all Blood Types which are not in blood banks with 10 - BB101, BB107, BB104
	blood banks with 1D - BB101, BB107, BB104
-)	Note the Olivert of t
	Select Blood Type from Blood Where Blood Type NOT IN (BB101', BB102'; BB104');
	NOT IN CISTSION, BBIOZ', BBIOS')
(310)	Letween '2001-01-01' and '2003-01-01'
À	between 12001-01-01, and 12003-01-01,
-7)	Nolect livet Name of Long down I have To
	Select first Name of from donor where DoB Between '2001-01-0' AND'2003-01-01'
	The later than the state of the
9(1)	Select all distinct locations stired in address
	of don't lable
->	select & Distinct Addus from donor;
(312)	List all donors rending in US
<u> </u>	select first Name from Donor When Addun: 'US'
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Question 8 – Output

```
ysql> select * from donor;
  donorID | firstName | lastname | address | phone
                                                        dob
                                                                     | bloodType | quantity |
      101
                        Paul
                                             4556789098
                                                          2000-03-01 | 0+
           Alex
                                   Germany
                                                                                     230.12
                                                          2003-05-06
           Bell
                        Decroix
      102
                                   Dutch
                                             3333339098
                                                                       B+
                                                                                     111.12
      103
                        James
                                   US
                                             6556569098
                                                          2001-06-11
                                                                                     356.89
           Cass
                                                                       AB+
      104
                       Day
                                   UK
                                             678977098
                                                          2002-08-04
                                                                                     456.77
           Jess
                                   Finland
                                                                                     211.78
                                             NULL
                                                          NULL
      106
           Jerry
                                                                       B+
      107
           Terry
                                  NULL
                                             NULL
                                                          NULL
                                                                       AB+
                                                                                     211.78
                                             56789907
                                                          2000-03-07
                                                                                     431.18
      108
           Mia
                                                                       B+
                       May
      109
           Anna
                                  UK
                                             223489907
                                                          2004-05-07 B-
                                                                                     543.18
8 rows in set (0.00 sec)
 ysql> SELECT FIRSTNAME FROM DONOR WHERE BLOODTYPE <> 'AB+';
 FIRSTNAME |
 Alex
 Bell
  Jess
  Jerry
 Mia
  Anna
  rows in set (0.00 sec)
```

Question 9 - Output

```
nysql> SELECT * FROM BLOOD;
 BloodID | BloodType | BloodBankID | DateOfReg
 B101
            A+
                        BB101
                                       2022-01-07
                                       2022-01-22
            B+
 B102
                        BB102
                                       2022-02-22
 B103
            0+
                        BB102
                                       2022-01-09
 B104
            AB+
                        BB103
 B105
                        BB105
                                       2022-01-19
                                       2022-01-29
 B106
            B-
                        BB104
                                       2022-01-18
 B107
            0-
                        BB103
                                       2022-01-15
 B108
           AB-
                        BB105
8 rows in set (0.00 sec)
nysql> SELECT BLOODTYPE FROM BLOOD WHERE BLOODBANKID NOT IN ('BB101','BB102','BB104');
 BL00DTYPE |
 AB+
 AB-
 rows in set (0.06 sec)
```

Question 10 – Output

onorID	firstName	lastname	address	phone	dob	bloodType	quantity
101	Alex	Paul	Germany	4556789098	2000-03-01	0+	230.12
102	Bell	Decroix	Dutch	3333339098	2003-05-06	B+	111.12
103	Cass	James	US	6556569098	2001-06-11	AB+	356.89
104	Jess	Day	UK	678977098	2002-08-04	0-	456.77
106	Jerry	k	Finland	NULL	NULL	B+	211.78
107	Terry	P	NULL	NULL	NULL	AB+	211.78
108	Mia	М	US			B+	431.18
109	Anna	May	UK	223489907	2004-05-07	B-	543.18

Question 11 – Output

```
mysql> SELECT DISTINCT ADDRESS FROM DONOR;

+-----+
| ADDRESS |
+-----+
| Germany |
| Dutch |
| US |
| UK |
| Finland |
| NULL |
+-----+
6 rows in set (0.03 sec)
```

Question 12 - Output

```
mysql> SELECT * FROM DONOR;
                                                                      | bloodType | quantity
 donorID
           firstName | lastname |
                                  address
                                                         dob
                                             4556789098
                                                           2000-03-01
     101
           Alex
                        Paul
                                   Germany
                                                                                       230.12
     102
           Bell
                        Decroix
                                   Dutch
                                             3333339098
                                                           2003-05-06
                                                                        B+
                                                                                       111.12
                                                           2001-06-11
                                             6556569098
     103
                        James
                                                                        AB+
                                                                                       356.89
                                                           2002-08-04
     104
                                   UK
                                             678977098
           Jess
                        Day
                                                                        0-
                                                                                      456.77
     106
                                   Finland
                                                                        B+
                                                                                       211.78
           Jerry
                                             NULL
                                                           NULL
     107
           Terry
                                   NULL
                                             NULL
                                                           NULL
                                                                        AB+
                                                                                       211.78
                                             56789907
     108
           Mia
                                                           2000-03-07
                                                                        B+
                                                                                      431.18
                       May
                                   UK
     109
                                             223489907
                                                           2004-05-07
                                                                                      543.18
           Anna
                                                                        B-
 rows in set (0.00 sec)
mysql> SELECT FIRSTNAME FROM DONOR WHERE ADDRESS='US';
 FIRSTNAME
 Cass
 Mia
```



<u> </u>	List all details of donus whose phone is not
)	select * from donor where phone is NULL;
Q14)	Just names-first and last of all donors whose Date of birth is not rejuteld
→	Select first Name, last Name from donor while dob is NULL;
	List Hospital ID and Name of all hospitals in
う	Delect Name, Hospital 10 from Hospital Where Address = "Pune"
<u>(</u> §16)	List all details of managers whose name starts and lords with a';
-)	Select * from manager where name like a 1. a).
<u> (317)</u>	first all details of manages where names have
う	Select & from manager when name like _i'/.);
Q 18)	bort donor table in arcending order by dob and lut first Name, last Name and Donor 10
7	Select first Name, last Name, Donvill from DONOR ORDER BY DOL ASC;

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Question 13 – Output

mysql> SELECT * FROM D						
donorID firstName	lastname	address	phone	dob	bloodType	quantity
106 Jerry 107 Terry	k P	 Finland NULL	NULL NULL	NULL NULL	B+ AB+	211.78 211.78
+2 rows in set (0.00 se		+	+	+		

Question 14 - Output

```
mysql> SELECT FIRSTNAME,LASTNAME FROM DONOR WHERE DOB IS NULL;

+-----+

| FIRSTNAME | LASTNAME |

+-----+

| Jerry | k |

| Terry | P |

+-----+

2 rows in set (0.00 sec)
```

Question 15 – Output

```
mysql> SELECT * FROM HOSPITAL;
 HospitalID | OrderID | Name
                                 Phone
                                            Address
           0101 | Ruby Hall
                                 3467876543
 H101
                                             Pune
                  0102
 H102
                                             Mumbai
          0103
 H103
                                             Chennai
 H104
           0104
                                             Pune
          | 0105 | Care Hospital | 9076786543 | Delhi
 H105
rows in set (0.00 sec)
mysql> SELECT NAME,HOSPITALID FROM HOSPITAL WHERE Address='Pune';
 NAME
             HOSPITALID
 Ruby Hall | H101
 Nobel Hospital | H104
 rows in set (0.00 sec)
```

Question 16 - Output

Question 17 - Output

Question 18 – Output

donorID	firstName	lastname	address	phone	dob	bloodType	quantity
101	Alex	Paul	Germany	4556789098	2000-03-01	+ 0+	230.12
102	Bell	Decroix	Dutch	3333339098	2003-05-06	B+	111.12
103	Cass	James	US	6556569098	2001-06-11	AB+	356.89
104	Jess	Day	UK UK	678977098	2002-08-04	0-	456.77
106	Jerry	k	Finland	NULL	NULL	B+	211.78
107	Terry	P	NULL	NULL	NULL	AB+	211.78
108	Mia	M	US	56789907	2000-03-07	B+	431.18
109	Anna	May	UK	223489907	2004-05-07	B-	543.18
	et (0.00 sec		donorID FRO	OM Donor ORDEF	R BY DOB ASC;	+	+
/sql> sele		,LastName,	+donorID FR(+ 	DM Donor ORDEF	R BY DOB ASC;	+	+
/sql> sele firstName	ct firstName	,LastName,o + donorID +	+ donorID FR(+ 	DM Donor ORDEF	R BY DOB ASC;		+
/sql> sele	ct firstName -+ LastName -+	,LastName,	+donorID FR0 + 	DM Donor ORDEF	R BY DOB ASC;	•	+
/sql> sele firstName Jerry	ct firstName -+ LastName -+ k	,LastName, + donorID +	donorID FR0 + - -	DM Donor ORDEF	R BY DOB ASC;	•	•
/sql> sele firstName Jerry Terry	ct firstName -+ LastName -+ k P	,LastName, + donorID + 106 107	donorID FR0 + - - - -	OM Donor ORDEF	R BY DOB ASC;		
/sql> sele firstName Jerry Terry Alex Mia	ct firstName LastName k P	donorID 106 107 101	donorID FR0 + - - - - -	OM Donor ORDEF	R BY DOB ASC;		
/sql> sele firstName Jerry Terry Alex Mia	ct firstName LastName k P Paul M	donorID 106 107 101	donorID FR0 + - - - - - -	DM Donor ORDEF	R BY DOB ASC;		•
/sql> sele firstName Jerry Terry Alex Mia Cass	ct firstName 	donorID 106 107 101 108 103	donorID FR0 + - - - - - - -	DM Donor ORDEF	R BY DOB ASC;		

	La unding ordy by
A19	Ant stark tuble in altarians
	At and distally the Milk 10 gran org
	Nort stock Tuble in derunding order by Aty and display the stock 10 and aly. Select stock 10, aly from stock Order By aly any
	Low Stock Ouls By Chy Olice
>	Select Stock 11, they from
	List Donor ID, first Name, last Name after wiling donor table in according order by DOB Then devending order by Quantity.
(20)	fut Donor 10, first Name, lass Name Dos - These
- GROJ	draw tilde in ascending out of the
	day and in a grate by Quantity.
	and the same of
* STY / 31	Last Name
→	select alonery, grossyrure, as
101	Select donor 1D, first Name, last Name From Donor From Donor Only By DOB Arc, Quantity Desc;
	From Donor By Dos Arc, Quantity Desc;
0	Result
	Basic Select Commands were understood and
	implemented in S&L
	Will be a second of the second
C. Y. D.	distribution and a manufacture would be tuled it to
	Scanned with C

Question 19 - Output

```
mysql> SELECT * FROM STOCK;
 StockID | BloodID | Qty
 S101
            B101
                        125
            B102
 S102
                        230
 S103
            B103
                        900
                        100
 S104
            B104
            B105
                         55
 S105
                         35
 S106
            B106
            B107
 S107
                        112
 S108
            B108
                        118
8 rows in set (0.00 sec)
mysql> SELECT STOCKID,QTY FROM STOCK ORDER BY Qty DESC;
 STOCKID | QTY
 S103
             900
 S102
             230
 S101
             125
             118
 S108
 S107
             112
 S104
             100
 S105
              55
 S106
 rows in set (0.00 sec)
```

Question 20 – Output

```
nysql> select * from donor;
 donorID | firstName | lastname | address | phone
                                                             dob
                                                                           | bloodType | quantity |
                                                 4556789098
                                                               2000-03-01
                                                                                             230.12
      101
            Alex
                         Paul
                                      Germany
                                                                             0+
                                                                                             111.12
      102
            Bell
                         Decroix
                                      Dutch
                                                 3333339098
                                                               2003-05-06
                                                                             B+
                                                               2001-06-11
      103
                                     US
                                                 6556569098
                                                                             AB+
                                                                                             356.89
            Cass
                          James
                                     UK
                                                               2002-08-04
                                                                                             456.77
      104
            Jess
                         Day
                                                 678977098
                                     Finland
                                                NULL
                                                               NULL
                                                                                             211.78
      106
            Jerry
                         k
                                                                             B+
            Terry
                                     NULL
                                                 NULL
                                                               NULL
                                                                             AB+
                                                                                             211.78
                                     US
                                                               2000-03-07
                                                                                             431.18
      108
            Mia
                                                 56789907
                                                                             B+
      109
           Anna
                         May
                                     UK
                                                 223489907
                                                               2004-05-07
                                                                             B-
                                                                                             543.18
8 rows in set (0.00 sec)
mysql> Select donorID,fistName,lastName from donor order by DOB ASC,QUANTITY DESC; ERROR 1054 (42S22): Unknown column 'fistName' in 'field list'
nysql>
nysql> Select donorID,firstName,lastName from donor order by DOB ASC,QUANTITY DESC;
 donorID | firstName | lastName |
      106
            Jerry
                         k
      107
            Terry
                         Paul
      101
            Alex
      108
            Mia
      103
                         James
      104
            Jess
                         Day
      102
            Bell
                         Decroix
                         May
      109
            Anna
 rows in set (0.00 sec)
```