**DBT Assignment**

**Following are the questions on Publishers, Authors, Titles and titleauthors tables:-**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. List pname, phone, email from Publishers.

**mysql> select pname,phone,email from publishers;**

+------------------+----------------+-----------------------------+

| pname | phone | email |

+------------------+----------------+-----------------------------+

| WILLEY | 91-11-23260877 | WDT@VSNL.NET |

| WROX | NULL | INFO@WROX.COM |

| TATA MCGRAW-HILL | 91-11-33333322 | FEEDBACK@TATAMCGRAWHILL.COM |

| TECHMEDIA | 91-11-33257660 | BOOKS@TECHMEDIA.COM |

+------------------+----------------+-----------------------------+

2. List aname, phone from Authors.

**mysql> select aname,phone from authors;**

+-----------------+-------+

| aname | phone |

+-----------------+-------+

| HERBERT SCHILD | NULL |

| JAMES GOODWILL | NULL |

| DAVAID HUNTER | NULL |

| STEPHEN WALTHER | NULL |

| KEVIN LONEY | NULL |

| ED. ROMANS | NULL |

+-----------------+-------+

3. List titleid, title, pubdate from Titles.

**mysql> select titleid, title, pubdate from titles;**

+---------+----------------------+------------+

| titleid | title | pubdate |

+---------+----------------------+------------+

| 1001 | ASP.NET UNLEASHED | 2002-04-12 |

| 1002 | ORACLE10G COMP. REF. | 2005-05-01 |

| 1003 | MASTERING EJB | 2005-02-03 |

| 1004 | JAVA COMP. REF | 2005-04-03 |

| 1005 | PRO. VB.NET | 2005-06-15 |

4. List auid, titleid, importance from titleauthors.

**mysql> select auid, titleid, importance from titleauthors;**

+------+---------+------------+

| auid | titleid | importance |

+------+---------+------------+

| 104 | 1001 | 1 |

| 105 | 1002 | 1 |

| 106 | 1003 | 1 |

| 101 | 1004 | 1 |

| 102 | 1005 | 2 |

| 103 | 1005 | 1 |

+------+---------+------------+

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(like)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select subject name "oracle" from subjects table.

**mysql> select sname from subjects where sname like '%Oracle%';**

+---------------------+

| sname |

+---------------------+

| ORACLE DATABASE 10g |

+---------------------+

2. select subject name starts with 'j'.

**mysql> select sname from subjects where sname like 'j%';**

+------------------------+

| sname |

+------------------------+

| JAVA LANGUAGE |

| JAVA ENTEPRISE EDITION |

+------------------------+

3. select subject name which contains ".net" .

**mysql> select sname from subjects where sname like '%.net%';**

+------------------+

| sname |

+------------------+

| ASP.NET |

| VISUAL BASIC.NET |

+------------------+

4. select author name ends with 'er'.

**mysql> select aname from authors where aname like '%er';**

+-----------------+

| aname |

+-----------------+

| DAVAID HUNTER |

| STEPHEN WALTHER |

+-----------------+

5. select publishers name which contains "hill".

**mysql> select pname from publishers where pname like '%hill%';**

+------------------+

| pname |

+------------------+

| TATA MCGRAW-HILL |

+------------------+

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(relational operator)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select title from title table having price less than 500.

**mysql> select title from titles where price<500;**

+----------------+

| title |

+----------------+

| MASTERING EJB |

| JAVA COMP. REF |

| PRO. VB.NET |

+----------------+

2. select title from title table published before '3 april'.

**mysql> select title from titles where pubdate<'2005-04-03';**

+-------------------+

| title |

+-------------------+

| ASP.NET UNLEASHED |

| MASTERING EJB |

+-------------------+

3. select subject name from subject having id as 'java' or 'jee'.

**mysql> select sname from subjects where subid='java' or subid='jee';**

+------------------------+

| sname |

+------------------------+

| JAVA LANGUAGE |

| JAVA ENTEPRISE EDITION |

+------------------------+

4. select author name from author table id greater than '103'.

**mysql> select aname from authors where auid>103;**

+-----------------+

| aname |

+-----------------+

| STEPHEN WALTHER |

| KEVIN LONEY |

| ED. ROMANS |

+-----------------+

5. select all from title having titleid as 1001 or price > 400.

**mysql> select \* from titles where titleid=1001 or price>400;**

+---------+----------------------+-------+-------+------------+-------+-------+

| TITLEID | TITLE | PUBID | SUBID | PUBDATE | COVER | PRICE |

+---------+----------------------+-------+-------+------------+-------+-------+

| 1001 | ASP.NET UNLEASHED | 4 | ASP | 2002-04-12 | P | 540 |

| 1002 | ORACLE10G COMP. REF. | 3 | ORA | 2005-05-01 | P | 575 |

| 1003 | MASTERING EJB | 1 | JEE | 2005-02-03 | P | 475 |

| 1004 | JAVA COMP. REF | 3 | JAVA | 2005-04-03 | P | 499 |

| 1005 | PRO. VB.NET | 2 | VB | 2005-06-15 | P | 450 |

+---------+----------------------+-------+-------+------------+-------+-------

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(IN operator)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

6.select all from publishers table where publisher name is ('TECHMEDIA', 'WROX');

**mysql> select \* from publishers where pname in ('techmedia' , 'wrox');**

+-------+-----------+---------------------+----------------+

| PUBID | PNAME | EMAIL | PHONE |

+-------+-----------+---------------------+----------------+

| 2 | WROX | INFO@WROX.COM | NULL |

| 4 | TECHMEDIA | BOOKS@TECHMEDIA.COM | 91-11-33257660 |

+-------+-----------+---------------------+----------------+

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(aggregate function)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select maximum price from titles table.

**mysql> select max(price) from titles;**

+------------+

| max(price) |

+------------+

| 575 |

+------------+

2. select average importance from titleauthors.

**mysql> select avg(importance) from titleauthors;**

+-----------------+

| avg(importance) |

+-----------------+

| 1.1667 |

+-----------------+

3. select number of records from author table.

**mysql> select count(auid) from authors;**

+-------------+

| count(auid) |

+-------------+

| 6 |

+-------------+

4. select sum of prices of all books.

**mysql> select sum(cost) from books;**

+-----------+

| sum(cost) |

+-----------+

| 4250 |

+-----------+

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(date)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select title from title table where month is 'Apr'.

**mysql> select title from titles where pubdate like '%-04-%';**

+-------------------+

| title |

+-------------------+

| ASP.NET UNLEASHED |

| JAVA COMP. REF |

+-------------------+

2. select year from system date.

**mysql> select year(current\_date());**

+----------------------+

| year(current\_date()) |

+----------------------+

| 2020 |

+----------------------+

3. select month from system date.

**mysql> select month(current\_date());**

+-----------------------+

| month(current\_date()) |

+-----------------------+

| 12 |

+-----------------------+

4. select last day of month when 'java' book published.

**mysql> select last\_day(pubdate) from titles where title like '%java%';**

+-------------------+

| last\_day(pubdate) |

+-------------------+

| 2005-04-30 |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(DML)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create table Employee with emp\_id (number),emp\_name(char(50)) and insert some value.

**mysql> create table employee(emp\_id int(10), emp\_name char(50));**

**mysql> insert into employee values(101,'Shubham'),(102,'Darshan'),(103,'Sahil'),(104,'Rahul');**

+--------+----------+

| emp\_id | emp\_name |

+--------+----------+

| 101 | Shubham |

| 102 | Darshan |

| 103 | Sahil |

| 104 | Rahul |

+--------+----------+

1. Add one column name 'dept\_id ' in table name 'Employee';

**mysql> alter table employee add column dept\_id int(10);**

+--------+----------+---------+

| emp\_id | emp\_name | dept\_id |

+--------+----------+---------+

| 101 | Shubham | NULL |

| 102 | Darshan | NULL |

| 103 | Sahil | NULL |

| 104 | Rahul | NULL |

+--------+----------+---------+

2. Change the datatype of column 'char' from tablename 'Employee' to 'varchar2'.

**mysql> alter table employee modify column emp\_name varchar(30);**

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| emp\_id | int(10) | YES | | NULL | |

| emp\_name | varchar(30) | YES | | NULL | |

| dept\_id | int(10) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

3. update name of employee to 'Scott'

**mysql> update employee set emp\_name='Scott' where emp\_id=102;**

+--------+----------+---------+

| emp\_id | emp\_name | dept\_id |

+--------+----------+---------+

| 101 | Shubham | NULL |

| 102 | Scott | NULL |

| 103 | Sahil | NULL |

| 104 | Rahul | NULL |

+--------+----------+---------+

4. truncate the table.

**mysql> truncate table employee;**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table=> Emp

SAL(float(7,3))

------------------

1234.567

1530.019

1652.786

1775.156

**Perform :**

1. round:

**mysql> select round(1234.567,2);**

+-------------------+

| round(1234.567,2) |

+-------------------+

| 1234.57 |

+-------------------+

**mysql> select round(1530.019,2);**

+-------------------+

| round(1530.019,2) |

+-------------------+

| 1530.02 |

+-------------------+

**mysql> select round(1652.786,2);**

+-------------------+

| round(1652.786,2) |

+-------------------+

| 1652.79 |

+-------------------+

**mysql> select round(1775.156,2);**

+-------------------+

| round(1775.156,2) |

+-------------------+

| 1775.16 |

+-------------------+

2. truncate

**mysql> select truncate(1234.567,2);**

+----------------------+

| truncate(1234.567,2) |

+----------------------+

| 1234.56 |

+----------------------+

**mysql> select truncate(1230.019,2);**

+----------------------+

| truncate(1230.019,2) |

+----------------------+

| 1230.01 |

+----------------------+

**mysql> select truncate(1652.786,2);**

+----------------------+

| truncate(1652.786,2) |

+----------------------+

| 1652.78 |

+----------------------+

**mysql> select truncate(1775.156,2);**

+----------------------+

| truncate(1775.156,2) |

+----------------------+

| 1775.15 |

+----------------------+

3. ceil

**mysql> select ceil(1234.567);**

+----------------+

| ceil(1234.567) |

+----------------+

| 1235 |

+----------------+

**mysql> select ceil(1530.019);**

+----------------+

| ceil(1530.019) |

+----------------+

| 1531 |

+----------------+

**mysql> select ceil(1652.786);**

+----------------+

| ceil(1652.786) |

+----------------+

| 1653 |

+----------------+

**mysql> select ceil(1775.156);**

+----------------+

| ceil(1775.156) |

+----------------+

| 1776 |

+----------------+

4. floor

**mysql> select floor(1234.567);**

+-----------------+

| floor(1234.567) |

+-----------------+

| 1234 |

+-----------------+

**mysql> select floor(1530.019);**

+-----------------+

| floor(1530.019) |

+-----------------+

| 1530 |

+-----------------+

**mysql> select floor(1652.786);**

+-----------------+

| floor(1652.786) |

+-----------------+

| 1652 |

+-----------------+

**mysql> select floor(1775.156);**

+-----------------+

| floor(1775.156) |

+-----------------+

| 1775 |

+-----------------+

5. sign(-15)

**mysql> select sign(-15);**

+-----------+

| sign(-15) |

+-----------+

| -1 |

+-----------+

**mysql> select sign(15);**

+----------+

| sign(15) |

+----------+

| 1 |

+----------+

6. mod

**mysql> select mod(15,8);**

+-----------+

| mod(15,8) |

+-----------+

| 7 |

+-----------+

7. sqrt

**mysql> select sqrt(225);**

+-----------+

| sqrt(225) |

+-----------+

| 15 |

+-----------+

8. power

**mysql> select power(6,3);**

+------------+

| power(6,3) |

+------------+

| 216 |

+------------+

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. perform all string function on string "CDAC juhu".

**mysql> select ASCII('r');**

+------------+

| ASCII('r') |

+------------+

| 114 |

+------------+

**mysql> select char\_length('CDAC Mumbai');**

+----------------------------+

| char\_length('CDAC Mumbai') |

+----------------------------+

| 11 |

+----------------------------+

**mysql> select concat('CDAC','Mumbai');**

+-------------------------+

| concat('CDAC','Mumbai') |

+-------------------------+

| CDACMumbai |

+-------------------------+

**mysql> select format(2524.23241,3);**

+----------------------+

| format(2524.23241,3) |

+----------------------+

| 2,524.232 |

+----------------------+

**mysql> select insert('Hello CDAC',1,6,'Mumbai');**

+-----------------------------------+

| insert('Hello CDAC',1,6,'Mumbai') |

+-----------------------------------+

| MumbaiCDAC |

+-----------------------------------+

**mysql> select left('CDAC Mumbai',4);**

+-----------------------+

| left('CDAC Mumbai',4) |

+-----------------------+

| CDAC |

+-----------------------+

**mysql> select ucase('Mumbai');**

+-----------------+

| ucase('Mumbai') |

+-----------------+

| MUMBAI |

+-----------------+

**mysql> select lcase('CDAC');**

+---------------+

| lcase('CDAC') |

+---------------+

| cdac |

+---------------+

**mysql> select substr('CDAC Mumbai',6,6);**

+---------------------------+

| substr('CDAC Mumbai',6,6) |

+---------------------------+

| Mumbai |

+---------------------------+

**mysql> select rtrim('CDAC Mumbai ');**

+---------------------------+

| rtrim('CDAC Mumbai ') |

+---------------------------+

| CDAC Mumbai |

+---------------------------+

**mysql> select rpad('hello sumit',20,'ABC');**

+------------------------------+

| rpad('hello sumit',20,'ABC') |

+------------------------------+

| hello sumitABCABCABC |

+------------------------------+

**mysql> select lpad('hello sumit',20,'ABC');**

+------------------------------+

| lpad('hello sumit',20,'ABC') |

+------------------------------+

| ABCABCABChello sumit |

+------------------------------+

2. perform different date and time functions.

**mysql> SELECT ADDDATE("2017-06-15", INTERVAL 10 DAY);**

+----------------------------------------+

| ADDDATE("2017-06-15", INTERVAL 10 DAY) |

+----------------------------------------+

| 2017-06-25 |

+----------------------------------------+

**mysql> SELECT ADDDATE("2017-06-15", INTERVAL 4 month);**

+-----------------------------------------+

| ADDDATE("2017-06-15", INTERVAL 4 month) |

+-----------------------------------------+

| 2017-10-15 |

+-----------------------------------------+

**mysql> SELECT ADDDATE("2017-06-15", INTERVAL 4 year);**

+----------------------------------------+

| ADDDATE("2017-06-15", INTERVAL 4 year) |

+----------------------------------------+

| 2021-06-15 |

+----------------------------------------+

**mysql> SELECT CURDATE();**

+------------+

| CURDATE() |

+------------+

| 2020-12-17 |

+------------+

**mysql> SELECT CURRENT\_TIMESTAMP();**

+---------------------+

| CURRENT\_TIMESTAMP() |

+---------------------+

| 2020-12-17 00:26:10 |

+---------------------+

**mysql> SELECT DATEDIFF("2017-06-25", "2017-06-15");**

+--------------------------------------+

| DATEDIFF("2017-06-25", "2017-06-15") |

+--------------------------------------+

| 10 |

+--------------------------------------+

**mysql> SELECT DATE\_FORMAT("2017-06-15", "%Y");**

+---------------------------------+

| DATE\_FORMAT("2017-06-15", "%Y") |

+---------------------------------+

| 2017 |

+---------------------------------+

**mysql> SELECT MAKEDATE(2017, 3);**

+-------------------+

| MAKEDATE(2017, 3) |

+-------------------+

| 2017-01-03 |

+-------------------+

**mysql> SELECT SYSDATE();**

+---------------------+

| SYSDATE() |

+---------------------+

| 2020-12-17 00:32:08 |

+---------------------+

**mysql> SELECT TO\_DAYS("2017-06-20");**

+-----------------------+

| TO\_DAYS("2017-06-20") |

+-----------------------+

| 736865 |

+-----------------------+

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*