**DBT Assignment 2**

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

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

* List pname, phone, email from Publishers.

mysql> SELECT PNAME, PHONE, EMAIL FROM PUBLISHER;

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

| 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 |

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

4 rows in set (0.01 sec)

* 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 |

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

6 rows in set (0.00 sec)

* 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 |

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

5 rows in set (0.01 sec)

* 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 |

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

6 rows in set (0.01 sec)

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

* select subject name "oracle" from subjects table.

mysql> SELECT SNAME FROM SUBJECTS WHERE SNAME LIKE '%ORACLE%';

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

| SNAME |

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

| ORACLE DATABASE 10G |

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

1 row in set (0.02 sec)

* select subject name starts with 'j'.

mysql> SELECT SNAME FROM SUBJECTS WHERE SNAME LIKE 'J%';

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

| SNAME |

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

| JAVA LANGUAGE |

| JAVA ENTERPRISE EDITION |

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

2 rows in set (0.00 sec)

* select subject name which contains ".net" .

mysql> SELECT SNAME FROM SUBJECTS WHERE SNAME LIKE '%.NET%';

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

| SNAME |

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

| ASP.NET |

| VISUAL BASIC.NET |

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

2 rows in set (0.00 sec)

* select author name ends whith 'er'.

mysql> SELECT SNAME FROM SUBJECTS WHERE SNAME LIKE '%ER';

Empty set (0.00 sec)

* select publishers name which contains "hill".

mysql> SELECT PNAME FROM PUBLISHER WHERE PNAME LIKE '%HILL%';

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

| PNAME |

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

| TATA MCGRAW-HILL |

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

1 row in set (0.01 sec)

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

* 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 |

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

3 rows in set (0.00 sec)

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

mysql> SELECT TITLE FROM TITLES WHERE PUBDATE > '2005-04-03';

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

| TITLE |

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

| ORACLE10G COMP. REF. |

| PRO. VB.NET |

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

2 rows in set (0.02 sec)

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

mysql> SELECT SUBID FROM SUBJECTS WHERE SUBID = 'JAVA' OR SUBID = 'JEE';

+-------+

| SUBID |

+-------+

| JAVA |

| JEE |

+-------+

2 rows in set (0.02 sec)

* 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 |

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

3 rows in set (0.01 sec)

* select all from title having titleid as 101 or price > 400.

mysql> SELECT \* FROM TITLES WHERE TITLEID = 101 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 |

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

5 rows in set (0.01 sec)

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

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

mysql> SELECT \* FROM PUBLISHER WHERE PNAME IN ('TECHMEDIA', 'WROX');

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

| pubid | pname | email | phone |

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

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

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

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

2 rows in set (0.00 sec)

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

* select maximum price from titles table.

mysql> SELECT MAX(PRICE) FROM TITLES;

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

| MAX(PRICE) |

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

| 575 |

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

1 row in set (0.02 sec)

* select average importance from titleauthors.

mysql> SELECT AVG(IMPORTANCE) FROM TITLEAUTHORS;

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

| AVG(IMPORTANCE) |

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

| 1.1667 |

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

1 row in set (0.01 sec)

* select number of records from author table.

mysql> SELECT COUNT(AUID) FROM AUTHORS;

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

| COUNT(AUID) |

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

| 6 |

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

1 row in set (0.09 sec)

* select sum of prices of all books.

mysql> SELECT SUM(PRICE) FROM TITLES;

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

| SUM(PRICE) |

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

| 2539 |

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

1 row in set (0.00 sec)

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

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

mysql> SELECT COUNT(\*) FROM TITLES WHERE MONTH(PUBDATE) = '04';

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

| COUNT(\*) |

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

| 2 |

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

1 row in set (0.01 sec)

mysql> SELECT COUNT(\*) FROM TITLES WHERE YEAR(PUBDATE) = '2002' AND MONTH(PUBDATE) = '04';

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

| COUNT(\*) |

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

| 1 |

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

1 row in set (0.01 sec)

* select year from system date.

mysql> SELECT YEAR('2020-12-05');

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

| YEAR('2020-12-05') |

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

| 2020 |

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

1 row in set (0.00 sec)

* select month from system date.

mysql> SELECT MONTH('2020-12-05');

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

| MONTH('2020-12-05') |

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

| 12 |

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

1 row in set (0.00 sec)

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

mysql> SELECT LAST\_DAY(NOW());

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

| LAST\_DAY(NOW()) |

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

| 2020-12-31 |

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

1 row in set (0.00 sec)

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

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

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

mysql> SELECT \* FROM EMPLOYEE;

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

| EMP\_ID | EMP\_NAME | DEPT\_ID |

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

| 1 | ABC | NULL |

| 2 | DEF | NULL |

| 3 | GHI | NULL |

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

3 rows in set (0.00 sec)

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

3. update name of employee to 'Scott'

mysql> UPDATE EMPLOYEE SET EMP\_NAME = 'SCOTT';

Query OK, 2 rows affected (0.01 sec)

Rows matched: 3 Changed: 2 Warnings: 0

* truncate the table.

mysql> TRUNCATE TABLE EMPLOYEE;

Query OK, 0 rows affected (0.15 sec)

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

Table=> Emp

SAL(float(7,3))

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

1234.567

1530.019

1652.786

1775.156

**Perform :**

* round

mysql> SELECT ROUND(30.5);

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

| ROUND(30.5) |

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

| 31 |

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

1 row in set (0.03 sec)

2. truncate

3. ceil

mysql> SELECT CEIL(32.1);

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

| CEIL(32.1) |

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

| 33 |

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

1 row in set (0.00 sec)

* floor

mysql> SELECT FLOOR(32.1);

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

| FLOOR(32.1) |

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

| 32 |

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

1 row in set (0.00 sec)

* sign(-15)

mysql> SELECT SIGN(-15);

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

| SIGN(-15) |

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

| -1 |

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

1 row in set (0.00 sec)

* mod

mysql> SELECT MOD(23,2);

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

| MOD(23,2) |

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

| 1 |

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

1 row in set (0.01 sec)

* sqrt

mysql> SELECT SQRT(16);

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

| SQRT(16) |

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

| 4 |

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

1 row in set (0.00 sec)

* power

mysql> SELECT POWER(10,2);

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

| POWER(10,2) |

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

| 100 |

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

1 row in set (0.01 sec)

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

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

2. perform different date and time functions.

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