**DBT Assignment**

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

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

1. List pname, phone, email from Publishers.

2. List aname, phone from Authors.

3. List titleid, title, pubdate from Titles.

4. List auid, titleid, importance from titleauthors.

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

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

2. select subject name starts whith 'j'.

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

4. select author name ends whith 'er'.

5. select publishers name which contains "hill".

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

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

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

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

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

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

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

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

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

1. select maximum price from titles table.

2. select average importance from titleauthors.

3. select number of records from author table.

4. select sum of prices of all books.

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

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

2. select year from system date.

3. select month from system date.

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

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

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

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

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

3. update name of employee to 'Scott'

4. truncate the table.

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

Table=> Emp

SAL(float(7,3))

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1234.567

1530.019

1652.786

1775.156

**Perform :**

1. round

2. truncate

3. ceil

4. floor

5. sign(-15)

6. mod

7. sqrt

8. power

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

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

2. perform different date and time functions.

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

Answers :-

create database whitewalker;

use whitewalker;

create table publishers

(

pubid int(3) primary key,

pname varchar(30),

email varchar(50),

phone varchar(30),

unique (email)

);

create table subjects

(

subid varchar(5) primary key,

sname varchar(30)

);

create table authors

(

auid int(5) primary key,

aname varchar(30),

email varchar(50),

phone varchar(30),

unique (email)

);

create table titles

(

titleid int(5) primary key,

title varchar(30),

pubid int(3),

subid varchar(5),

pubdate date,

cover char(1),

price int(4),

check (cover in('P','H','p','h')),

constraint title\_pubid\_fk foreign key (pubid) references publishers(pubid),

constraint title\_subid\_fk foreign key (subid) references subjects(subid)

);

create table titleauthors

(

titleid int(5),

auid int(2),

importance int(2),

primary key(titleid,auid),

constraint titleauthors\_titleid\_fk foreign key(titleid) references titles(titleid),

constraint titleauthors\_authorid\_fk foreign key(auid) references authors(auid)

);

create table subject\_backup

(

subid varchar(5),

sname varchar(30),

primary key (subid)

);

desc titles;

desc subjects;

desc publishers;

desc subject\_backup;

desc titleauthors;

insert into subjects values ('ora','oracle database 10g');

insert into subjects values ('java','java language');

insert into subjects values ('jee','java enterprise edition');

insert into subjects values ('VB','visual basics.net');

insert into subjects values ('asp','asp.net');

insert into publishers values (1,'willey','info@wrox.com','7745001618');

insert into publishers values (2,'wrox','info@vsnl.com',null);

insert into publishers values (3,'tata mcgraw','feedback@tatamcgrawhill.com',8899764533);

insert into publishers values (4,'techmedia','books@techmedia.com',7768984563);

insert into authors values (101,'herbert schild','herbert@yahoo.com',null);

insert into authors values (102,'james goodwill','goodwill@hotmail.com',null);

insert into authors values (103,'david hunter','huter@hotmail.com',null);

insert into authors values (104,'stephen walther','walther@gmail.com',null);

insert into authors values (105,'kevin loney','loney@oracle.com',null);

insert into authors values (106,'ed. romans','romans@theserverside.com',null);

insert into titles values (1001,'asp.net unleashed',4,'asp','12-04-02','p',540);

insert into titles values (1002,'oracle10g comp. ref',3,'ora','01-05-05','p',575);

insert into titles values (1003,'mastering ejb',1,'jee','03-02-05','p',475);

insert into titles values (1004,'java comp. ref',3,'java','03-04-05','p',499);

insert into titles values (1005,'pro. vb.net',2,'vb','15-05-05','p',450);

insert into titleauthors values (1001,104,1);

insert into titleauthors values (1002,105,1);

insert into titleauthors values (1003,106,1);

insert into titleauthors values (1004,101,1);

insert into titleauthors values (1005,103,1);

insert into titleauthors values (1005,102,2);

select \* from authors;

select \* from publishers;

select \* from subjects;

select \* from titleauthors;

select \* from titles;

select sname from subjects where sname like 'oracle%';

select sname from subjects where sname like 'j%';

select sname from subjects where sname like '%.net%';

select pname from publishers where pname like '%hill%';

select aname from authors where aname like '%er';

select title from titles where price<500;

select \* from titles where pubdate <= '03-04-05';

select sname from subjects where sname=('java' or 'jee');

select aname from authors where auid > 103;

select \* from titles where (titleid=101 or price > 400);

select \* from publishers where pname=('techmedia' or 'wrox');

select max(price) from titles;

select avg(importance) from titleauthors;

select count(\*) from authors;

select sum(price) from titles;

select title from titles where month(pubdate)=4;

select year(current\_date());

select month(current\_date());

select last\_day(pubdate) from titles where subid='java';

create table emp

(

sal float(7,3)

);

create table employee

(

empid int,

empname char(50)

);

desc employee;

insert into employee values(1,'Nikhil shrikhande');

insert into employee values(2,'Naman patil');

insert into employee values(3,'Abhishek Patil');

insert into employee values(4,'Kishore pandit');

insert into employee values(5,'Amit Gade');

alter table employee add column deptid int;

alter table employee modify column empname varchar(20);

alter table employee rename scott;

show tables;

truncate table employee;

select round(1234.567,-1)as roundvalue;

select round(1234.567,2);

select ceil(1530.019);

select floor(1652.786);

select sign(-15);

select 16 mod 7;

select sqrt(225);

select power(5,2);

select ascii('CDAC JUHU');

select bin('CDAC JUHU');

select hex('CDAC JUHU');

select bit\_length('CDAC JUHU');

select char('CDAC JUHU');

select lcase('CDAC JUHU');

select ucase('CDAC JUHU');

select concat('CDAC JUHU');

select mid('CDAC JUHU',2,5);

select reverse('CDAC JUHU');

select lower('cdac juhu');

select upper('cdac juhu');

select left('CDAC JUHU',5);

select right('CDAC JUHU',3);

select length('CDAC JUHU');

select trim(' CDAC JUHU');

SELECT DATE\_ADD('1995-02-19', INTERVAL 31 DAY);

SELECT ADDTIME('1995-04-22 15:25:10.999999','1 1:1:1.000002');

SELECT CONVERT\_TZ('2000-05-07 10:00:00','GMT','MET');

SELECT CONVERT\_TZ('1999-01-01 12:00:00','+00:00','+10:00');

SELECT CURDATE();

SELECT CURDATE()+0;

SELECT CURTIME();

SELECT CURTIME()+0;

SELECT DATE('2013-11-15 01:02:03');

SELECT DATEDIFF('1995-09-21 15:59:59','1997-12-30');

SELECT DATE\_ADD('1997-12-31 23:59:59', INTERVAL '1:1' MINUTE\_SECOND);

SELECT DATE\_ADD('1999-01-01', INTERVAL 1 HOUR);

SELECT DATE\_FORMAT('1995-02-19 22:23:00', '%W %M %Y');

SELECT DAYNAME('1995-02-19');

SELECT MONTHNAME('1994-04-22');

SELECT DAYOFWEEK('1993-05-11');

SELECT DAYOFYEAR('1992-08-14');

SELECT EXTRACT(YEAR FROM '2000-07-02');

SELECT EXTRACT(YEAR\_MONTH FROM '2002-08-16 01:02:03');

SELECT HOUR('15:09:03');

SELECT LAST\_DAY('2015-09-23');

SELECT MAKEDATE(2014,31), MAKEDATE(2001,32);

SELECT MAKETIME(15,14,26);

SELECT NOW();