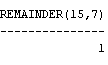
1Find 8^3 using power function   
2.Find exponent of 5  
3.Find remainder of 15/7 & 15.7/7  
4.Truncate 125.815 to one decimal position  
5.Truncate 125.815 to -2 decimal places  
6.Round the value 3.147 to 2 digits  
7.Find greatest of three names  
8.Find least of 3 names   
9.Find the absolute value of -3.14

**Answers :**

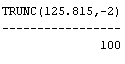
1. select power(8,3) from dual;  


2. select exp(5) from dual;  


3(a). select remainder(15,7) from dual;  


3(b). select remainder(15.7,7) from dual;  


4. select trunc(125.815,1) from dual;  


5. select trunc(125.815,-2) from dual;  


6. select round(3.147) from dual;  


7. select greatest('Anandu','Maddie','Ryan') from dual;  


**8**. select least('Anandu','Maddie','Ryan') from dual;  


**9**. select abs(-3.14) from dual;  


**Date Functions :**

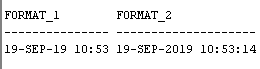
**Questions:**

**1.** Display system date and time using systimestamp() function.  
**2**. Display system time as now using to\_char function.  
**3**. Use to\_char function to display date and time in different formats.  
**4.** Create a table person with fields name and date of birth (DOB), DOB is of type ‘date’ and populate the table with 5 tuples.  
**5.** Find name, age of each person (months\_between)  
**6.** Find person’s name and last date of birth month.  
**7**. Find the name and next day of birth date. (next\_day)  
**8**. Create table named account\_details, with fields: atm\_no, acc\_holder, valid\_from, exp\_date. Populate the table with 10 tuples.   
1. Find out how many months have passed, since Chassie has started an account   
2. Find the account holder who has started the account most recently.  
3. How many days are remaining for Ryan’s atm card to get expired, displayed as ‘days\_left’.  
4. The bank has decided to extend the expiry dates for a few of its early customers, all customers who have started their account before jan 1, 2009 gets their expiry date extended by 1 year. Update the database.  
5. Display the current system date as today and show the remaining days for the expiry of each account holder with their names.  
6. Whose atm card has got the greatest deadline for expiry?  
7. The valid from date of Maddie was wrongly entered in the bank it should be replaced with the next day.  
8. Display the details corresponding to all customers whose account were started in the current year.  
9. Using extract function display the expiry year for all the account holders.

**Answers:**

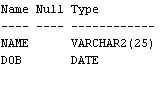
**1.** select systimestamp from dual;  

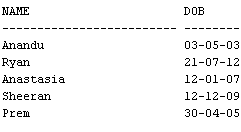

**2.** select to\_char(sysdate, ‘HH:MI:SS') as now from dual;  

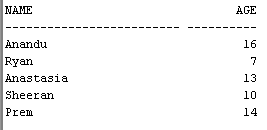

3. SELECT to\_char(sysdate,'DD-MON-YY hh:MI') as format\_1,to\_char(sysdate, 'DD-MON-YYYY HH:MI:SS') as format\_2 from dual;  


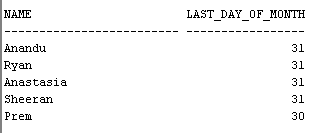
4. create table person(

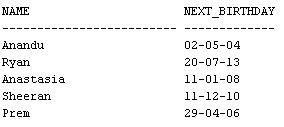
name varchar2(25),

dob date);  
  
insert into person values('Prem',to\_date('2005/04/30', 'yyyy/mm/dd'));  
insert into person values('Sheeran',to\_date('2009/12/12', 'yyyy/mm/dd'));  
insert into person values('Anastasia',to\_date('2007/01/12', 'yyyy/mm/dd'));  
insert into person values('Ryan',to\_date('2012/07/21', 'yyyy/mm/dd'));  
insert into person values('Anandu',to\_date('2003/05/03', 'yyyy/mm/dd'));

select \* from person;  


5. select name,round(months\_between(TRUNC(sysdate), dob)/12) as age from person;  


6. select name,1+trunc(last\_day(dob))-trunc(dob,'MM') as last\_day\_of\_month from person;  


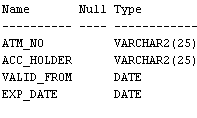
7. select name,add\_months( to\_date(dob,'dd-mm-yy'), 12 )-1 as next\_birthday from person;  


8. create table account\_details(

atm\_no varchar2(25),

acc\_holder varchar2(25),

valid\_from date,

exp\_date date);  


insert into account\_details values('123456700','Prem',to\_date('2005/04/30', 'yyyy/mm/dd'),to\_date('2015/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456701','Sheeran',to\_date('2009/12/12', 'yyyy/mm/dd'),to\_date('2019/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456702','Anastasia',to\_date('2007/01/12', 'yyyy/mm/dd'),to\_date('2017/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456703','Ryan',to\_date('2012/07/21', 'yyyy/mm/dd'),to\_date('2022/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456704','Anandu',to\_date('2003/05/03', 'yyyy/mm/dd'),to\_date('2013/04/30', 'yyyy/mm/dd'));

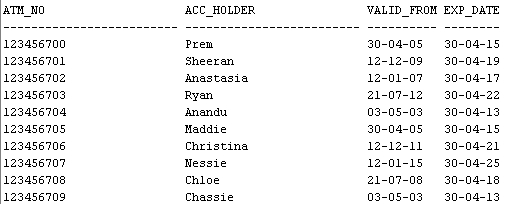
insert into account\_details values('123456705','Maddie',to\_date('2005/04/30', 'yyyy/mm/dd'),to\_date('2015/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456706','Christina',to\_date('2011/12/12', 'yyyy/mm/dd'),to\_date('2021/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456707','Nessie',to\_date('2015/01/12', 'yyyy/mm/dd'),to\_date('2025/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456708','Chloe',to\_date('2008/07/21', 'yyyy/mm/dd'),to\_date('2018/04/30', 'yyyy/mm/dd'));

insert into account\_details values('123456709','Chassie',to\_date('2003/05/03', 'yyyy/mm/dd'),to\_date('2013/04/30', 'yyyy/mm/dd'));



8.1. select round(months\_between(TRUNC(sysdate), valid\_from)/12) as months\_active from account\_details

where acc\_holder='Chassie';  


8.2 .   
alter table account\_details  
add months\_active int;

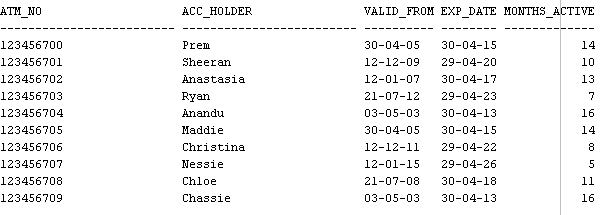
update account\_details  
set months\_active=round(months\_between(TRUNC(sysdate), valid\_from)/12);

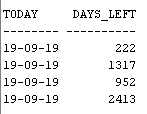
select acc\_holder from account\_details where months\_active=(select max(months\_active) from account\_details);  


8.3.   
select round(exp\_date-sysdate) as days\_left from account\_details

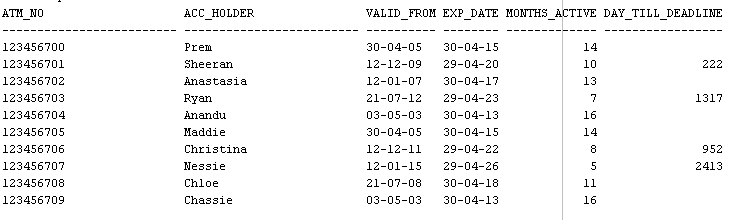
where acc\_holder='Ryan';  

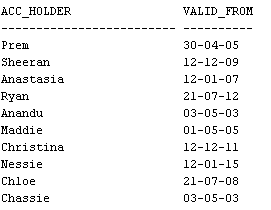

8.4.  
update account\_details set exp\_date=add\_months( to\_date(exp\_date,'dd-mm-yy'), 12 )-1 where valid\_from>to\_date('01-01-09','dd-mm-yy');



8.5.  
select to\_char(sysdate,'dd-mm-yy')as today,round(exp\_date-sysdate) as days\_left from account\_details  
where round(exp\_date-sysdate)>0;  


8.6.  
alter table account\_details  
add day\_till\_deadline int;

update account\_details set day\_till\_deadline=round(exp\_date-sysdate) where exp\_date>sysdate;  


8.7.  
update account\_details set valid\_from=valid\_from+ 1 where acc\_holder='Maddie';  


8.8.  
select \* from account\_details where to\_char(valid\_from, 'yyyy')=to\_char(sysdate,'yyyy'); 

8.9.  
select acc\_holder,extract(year from exp\_date) from account\_details;  
