2.1

**1st solution**

SQL> desc staff\_master;

Name Null? Type

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

STAFF\_CODE NOT NULL NUMBER(8)

STAFF\_NAME NOT NULL VARCHAR2(50)

DESIGN\_CODE NUMBER

DEPT\_CODE NUMBER

HIREDATE DATE

STAFF\_DOB DATE

STAFF\_ADDRESS VARCHAR2(240)

MGR\_CODE NUMBER(8)

STAFF\_SAL NUMBER(10,2)

SQL> select staff\_name, lpad(staff\_sal,15,'$')

2 from staff\_master;

STAFF\_NAME

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

LPAD(STAFF\_SAL,15,'$')

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

Mounisha

$$$$$$$$$$25000

mouni\_sha

$$$$$$$$$$20000

mounisha

$$$$$$$$$$20000

STAFF\_NAME

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

LPAD(STAFF\_SAL,15,'$')

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

mounika

$$$$$$$$$$20000

mounik

$$$$$$$$$$20000

**4 solution**

SQL> desc staff\_master;

Name Null? Type

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

STAFF\_CODE NOT NULL NUMBER(8)

STAFF\_NAME NOT NULL VARCHAR2(50)

DESIGN\_CODE NUMBER

DEPT\_CODE NUMBER

HIREDATE DATE

STAFF\_DOB DATE

STAFF\_ADDRESS VARCHAR2(240)

MGR\_CODE NUMBER(8)

STAFF\_SAL NUMBER(10,2)

SQL> insert into staff\_master values(1,'run',2,22,('12-dec-2009'),('11-jan-1999'),'kodad',4,40000);

1 row created.

SQL> select staff\_code,staff\_name,hiredate,staff\_dob,dept\_code from staff\_master where to\_char(hiredate,'mon')='dec'

2 and to\_char(hiredate,'dd')<=15;

STAFF\_CODE STAFF\_NAME HIREDATE

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

STAFF\_DOB DEPT\_CODE

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

1 run 12-DEC-09

11-JAN-99 22

**3RD SOLUTION**

SQL> alter table staff\_master

2 add months\_worked int;

Table altered.

SQL> desc staff\_master;

Name Null? Type

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

STAFF\_CODE NOT NULL NUMBER(8)

STAFF\_NAME NOT NULL VARCHAR2(50)

DESIGN\_CODE NUMBER

DEPT\_CODE NUMBER

HIREDATE DATE

STAFF\_DOB DATE

STAFF\_ADDRESS VARCHAR2(240)

MGR\_CODE NUMBER(8)

STAFF\_SAL NUMBER(10,2)

MONTHS\_WORKED NUMBER(38)

SQL> insert into staff\_master values(1,'mohan',22,1,('12-jan-2019'),('12-jan-1999'),'kaki',1,20000,22);

1 row created.

SQL> insert into staff\_master values(1,'mohanrao',22,1,('12-jan-1999'),('12-jan-1969'),'kaki',1,20000,42);

1 row created.

SQL> select staff\_name,months\_worked from staff\_master order by months\_worked asc;

STAFF\_NAME MONTHS\_WORKED

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

mohan 22

mohanrao 42

mounisha

mounik

run

mouni\_sha

Mounisha

mounika

8 rows selected.

**6TH SOLUTION**

SQL> desc staff\_master;

Name Null? Type

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

STAFF\_CODE NOT NULL NUMBER(8)

STAFF\_NAME NOT NULL VARCHAR2(50)

DESIGN\_CODE NUMBER

DEPT\_CODE NUMBER

HIREDATE DATE

STAFF\_DOB DATE

STAFF\_ADDRESS VARCHAR2(240)

MGR\_CODE NUMBER(8)

STAFF\_SAL NUMBER(10,2)

MONTHS\_WORKED NUMBER(38)

SQL> alter table staff\_master

2 add day char(20);

Table altered.

SQL> insert into staff\_master values(1,'mohanrao',22,1,('12-jan-1999'),('12-jan-1969'),'kaki',1,20000,42,'monday');

1 row created.

SQL> insert into staff\_master values(1,'mohanlaxmi',22,1,('12-oct-1999'),('12-jan-1969'),'kaki',1,20000,42,'tuesday');

1 row created.

SQL> select staff\_name,hiredate,day from staff\_master order by day asc;

STAFF\_NAME HIREDATE

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

DAY

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

mohanrao 12-JAN-99

monday

mohanlaxmi 12-OCT-99

tuesday

mounisha 22-JAN-19

STAFF\_NAME HIREDATE

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

DAY

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

mounika 22-JAN-91

run 12-DEC-09

mohan 12-JAN-19

STAFF\_NAME HIREDATE

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

DAY

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

mohanrao 12-JAN-99

mouni\_sha 22-JAN-19

Mounisha 19-AUG-20

STAFF\_NAME HIREDATE

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

DAY

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

mounik 22-JAN-91

10 rows selected.

**7th solution**

SQL> select instr('mississippi','i',1,3) from dual;

INSTR('MISSISSIPPI','I',1,3)

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

8

**9TH SOLUTION**

SQL> alter table student\_master

2 add dept\_name char(40);

Table altered.

SQL> desc student\_master;

Name Null? Type

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

STUDENT\_CODE NOT NULL NUMBER(6)

STUDENT\_NAME NOT NULL VARCHAR2(50)

DEPT\_CODE NUMBER(2)

STUDENT\_DOB DATE

STUDENT\_ADDRESS VARCHAR2(240)

DEPT\_NAME CHAR(40)

SQL> insert into student\_master values(1,'ran',20,('11-jan-1111'),'khamm','ele');

1 row created.

SQL> select student\_name,student\_code,dept\_name,decode(dept\_code,20,'electricals',30,'electronics') from student\_master;

STUDENT\_NAME STUDENT\_CODE

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

DEPT\_NAME DECODE(DEPT

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

mounis 1

mounish 1

mounis 1

STUDENT\_NAME STUDENT\_CODE

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

DEPT\_NAME DECODE(DEPT

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

lakshmi 1

lakshmi 1

ran 1

ele electricals

6 rows selected.

**5TH SOLUTION**

SQL> select staff\_name, Staff\_Sal, CASE when staff\_sal>=50000 then 'A'

2 when staff\_sal>=25000 and staff\_sal<50000 then 'B'when staff\_sal>=10000 and staff\_sal<25000 then 'C' ELSE 'D'

3 end case from staff\_master;

STAFF\_NAME STAFF\_SAL C

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

Mounisha 25000 B

mouni\_sha 20000 C

mounisha 20000 C

mounika 20000 C

mounik 20000 C

run 40000 B

mohan 20000 C

mohanrao 20000 C

mohanrao 20000 C

mohanlaxmi 20000 C

10 rows selected.

**2ND SOLUTION**

SQL> select student\_name, to\_char(student\_dob,'month dd yyyy')

2 as student\_dob from student\_master where to\_char(student\_dob,'day') like ('%saturday%') or

3 to\_char(student\_dob,'day')like('%sunday%');

STUDENT\_NAME

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

STUDENT\_DOB

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

mounis

january 18 2020

mounis

january 18 2020

lakshmi

january 18 2020

STUDENT\_NAME

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

STUDENT\_DOB

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

lakshmi

january 18 2020