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A Practical activity Report submitted for UCS310

DATABASE MANAGEMENT SYSTEM

Computer Science and Engineering

Patiala Campus

2021

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Assignment 4 (Remaining Questions)

Q2) Display current time in hour : min : sec format

Q3) Display salary + commission of emp table

Q4) Store any date value in hiredate column of table ?

Q5) Display name of employee(s) who join the company in 1985 ?

Q6) Display name of the employee(s) who join the company this year ?

Solution -

_____

Script:

```
SELECT to_char(SYS_EXTRACT_UTC(SYSTIMESTAMP)+(5.5/25),'HH:MI:SS PM') FROM DUAL;
CREATE TABLE emp(empno int, ename varchar(30), job varchar(30), sal int,commission int, deptno int);
INSERT INTO emp VALUES(01, 'Harsh', 'Employee', 100000, 200, 02);
INSERT INTO emp VALUES(02, 'Yash', 'Clerk', 1000, 300, 01);
INSERT INTO emp VALUES(04, 'Chaitanya', 'Employee', 2500, 500, 10);
INSERT INTO emp VALUES(06, 'Chandan', 'Clerk', 2800,10 , 20);
INSERT INTO emp VALUES(01, 'Kashyap', 'Employee', 1000, 30, 30);
SELECT sal+commission AS AMOUNT FROM Emp;
ALTER TABLE emp
ADD hiredate DATE;
UPDATE emp SET hiredate = '25-Mar-1985';
UPDATE emp SET hiredate='15-Mar-2021' WHERE job='Employee';
SELECT * FROM emp WHERE to_char(hiredate, 'YYYY') =1985;
SELECT * FROM emp WHERE to_char(hiredate, 'YYYY') = to_char(SYSDATE,'YYYY');
```

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Screenshots

My Session   ⓘ   Actions ⌄   ↺ Reset Session   💾 Save

```
SELECT to_char(SYS_EXTRACT_UTC(SYSTIMESTAMP)+(5.5/25),'HH:MI:SS PM') FROM DUAL
```

TO_CHAR(SYS_EXTRACT_UTC(SYSTIMESTAMP)+(5.5/25),'HH:MI:SSPM')
01:59:27 PM

Download CSV

Statement 56

```
CREATE TABLE emp(empno int, ename varchar(30), job varchar(30), sal int,commission int, deptno int)
```

Table created.

Statement 57

```
INSERT INTO emp VALUES(01, 'Harsh', 'Employee', 100000, 200, 02)
```

1 row(s) inserted.

Statement 58

```
INSERT INTO emp VALUES(02, 'Yash', 'Clerk', 1000, 300, 01)
```

1 row(s) inserted.

Statement 59

```
INSERT INTO emp VALUES(04, 'Chaitanya', 'Employee', 2500, 500, 10)
```

1 row(s) inserted.

My Session   ⓘ   Actions ⌄   ↺ Reset Session   💾 Save

```
INSERT INTO emp VALUES(06, 'Chandan', 'Clerk', 2800,10 , 20)
```

1 row(s) inserted.

Statement 61

```
INSERT INTO emp VALUES(01, 'Kashyap', 'Employee', 1000, 30, 30)
```

1 row(s) inserted.

Statement 62

```
SELECT sal+commission AS AMOUNT FROM Emp
```

AMOUNT
100200
1300
3000
2810
1030

Download CSV
5 rows selected.

Statement 63

```
ALTER TABLE emp
ADD hiredate DATE
```

Table altered.

Statement 64

My Session

Table altered.

Actions Reset Session Save

Statement 64

```sql
UPDATE emp SET hiredate = '25-Mar-1985'
```

5 row(s) updated.

Statement 65

```sql
UPDATE emp SET hiredate='15-Mar-2021' WHERE job='Employee'
```

3 row(s) updated.

Statement 66

```sql
SELECT * FROM emp WHERE to_char(hiredate, 'YYYY') =1985
```

EMPNO	ENAME	JOB	SAL	COMMISSION	DEPTNO	HIREDATE
2	Yash	Clerk	1000	300	1	25-MAR-85
6	Chandan	Clerk	2800	10	20	25-MAR-85

Download CSV
2 rows selected.

Statement 67

```sql
SELECT * FROM emp WHERE to_char(hiredate, 'YYYY') = to_char(SYSDATE,'YYYY')
```

EMPNO	ENAME	JOB	SAL	COMMISSION	DEPTNO	HIREDATE
1	Harsh	Employee	100000	200	2	15-MAR-21
4	Chaitanya	Employee	2500	500	10	15-MAR-21
1	Kashyap	Employee	1000	30	30	15-MAR-21

Download CSV

Assignment 5 (till Question 5)

1. Create table emp which has the following attributes (employee table)
(@empno, ename, job, sal, deptno)
Where empno is primary key, ename is unique, job in (Prof, AP, and Lect), sal is not NULL, and deptno is foreign key

2. Create table dept which has the following attributes (department table)
(@deptno, dname)
Where deptno is primary key, dname in (Acc, comp, elect)

3. Create table S which has the following attributes (Salesperson table)
(@sno, sname, city)
Where sno is primary key

4. Create table P which has the following attributes (Part table)
(@pno, pname, color)
Where pno is primary key

5. Create table J which has the following attributes (ProJect table)
(@jno, jname, city)
Where jno is primary key

Solution -

SQL Worksheet   ✂ Clear   🔍 Find   Actions ⌄   💾 Save   Run ▶

```
 1  #question 2
 2  create table dept
 3  (
 4      deptno Number(10) Primary Key ,
 5      dname varchar(20) check (dname in ('Acc' ,'comp','elect'))
 6  );
 7
 8  #insertion
 9  insert into dept values(10,'Acc');
10  insert into dept values(20,'comp') ;
11  insert into dept values(30 ,'ME') ;
12  insert into dept values(30 ,'ele') ;
13
14  #question 1
15  create table emp
16  (
17      empno Number(10) Primary key,
18      ename varchar(20) unique,
19      job varchar(20) check (job in ('Prof' , 'AP' , 'Lect')) ,
20      sal Number(10) Not null ,
21      deptno Number(10) references dept (deptno)
22  );
23
24
25  insert into emp values(1,'Prateek','Prof',2000,10);
26  insert into emp values(2,'Akshat','Lect',1000,40);
27  insert into emp values(2,'Aksaht','Lect',10000,30);
28  insert into emp values(3,'Arsh','AP',30000,20);
29  select * from emp ;
30
```

SQL Worksheet   ✂ Clear   🔍 Find   Actions ⌄   💾 Save   Run ▶

```
31  #question 3
32  create table salesperson |
33  (
34      sno Number(10) Primary Key ,
35      sname varchar(20),
36      city varchar(20)
37  );
38
39  insert into salesperson values(1,'Arsh','Jammu');
40  insert into salesperson values(2,'Prateek','Amritsar') ;
41  insert into salesperson values(3 ,'Lovish','Bathinda') ;
42  select * from salesperson ;
43
44
45  #question 4
46  create table part
47  (
48      sno Number(10) Primary Key ,
49      sname varchar(20),
50      color varchar(20)
51  );
52
53  insert into part values(1,'bolt','White');
54  insert into part values(2,'nut','Black') ;
55  insert into part values(3 ,'screw','Brown') ;
56  select * from part ;
57
58
```

```
58
59  #question 5
60  create table pproject
61  (
62      jno Number(10) Primary Key ,
63      jname varchar(20),
64      city varchar(20)
65  );
66
67  insert into pproject values(1,'Fitness_App','Jammu');
68  insert into pproject values(2,'ML','Amritsar') ;
69  insert into pproject values(3 ,'Website','Bathinda') ;
70  select * from pproject ;
```

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Script:

```
#question 2
create table dept
(
    deptno Number(10) Primary Key ,
    dname varchar(20) check (dname in ('Acc' ,'comp','elect'))
);

#insertion
insert into dept values(10,'Acc');
```

```
insert into dept values(20,'comp') ;
insert into dept values(30 ,'ME') ;
insert into dept values(30 ,'ele') ;

#question 1
create table emp
(
    empno Number(10) Primary key,
    ename varchar(20) unique,
    job varchar(20) check (job in ('Prof' , 'AP' , 'Lect')) ,
    sal Number(10) Not null ,
    deptno Number(10) references dept (deptno)
);


insert into emp values(1,'Prateek','Prof',2000,10);
insert into emp values(2,'Akshat','Lect',1000,40);
insert into emp values(2,'Aksaht','Lect',10000,30);
insert into emp values(3,'Arsh','AP',30000,20);
select * from emp ;

#question 3
create table salesperson
(
    sno Number(10) Primary Key ,
    sname varchar(20),
    city varchar(20)
);

insert into salesperson values(1,'Arsh','Jammu');
insert into salesperson values(2,'Prateek','Amritsar') ;
insert into salesperson values(3 ,'Lovish','Bathinda') ;
select * from salesperson ;


#question 4
create table part
(
    sno Number(10) Primary Key ,
    sname varchar(20),
    color varchar(20)
);

insert into part values(1,'bolt','White');
insert into part values(2,'nut','Black') ;
insert into part values(3 ,'screw','Brown') ;
select * from part ;


#question 5
create table pproject
(
    jno Number(10) Primary Key ,
    jname varchar(20),
```

```
    city varchar(20)
);

insert into pproject values(1,'Fitness_App','Jammu');
insert into pproject values(2,'ML','Amritsar') ;
insert into pproject values(3 ,'Website','Bathinda') ;
select * from pproject ;
```

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Screenshots

My Session

ⓘ   Actions ⌄   ↺ Reset Session   💾 Save

Statement **2**

```
create table dept
(
    deptno Number(10) Primary Key ,
    dname varchar(20) check (dname in ('Acc' ,'comp','elect'))
)
```

Table created.

Statement **3**

```
insert into dept values(10,'Acc')
```

1 row(s) inserted.

Statement **4**

```
insert into dept values(20,'comp')
```

1 row(s) inserted.

Statement **5**

```
insert into dept values(30 ,'ME')
```

ORA-02290: check constraint (SQL_IVSRHGNBEWFTJMPMQEULUBIYE.SYS_C0054634702) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

Statement **6**

```
insert into dept values(30 ,'ele')
```

ORA-02290: check constraint (SQL_IVSRHGNBEWFTJMPMQEULUBIYE.SYS_C0054634702) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

My Session   ⓘ   Actions ⌄   ⟲ Reset Session   💾 Save

Statement 7

```
create table emp
(
    empno Number(10) Primary key,
    ename varchar(20) unique,
    job varchar(20) check (job in ('Prof' , 'AP' , 'Lect')) ,
    sal Number(10) Not null ,
    deptno Number(10) references dept (deptno)
)
```

Table created.

Statement 8

```
insert into emp values(1,'Prateek','Prof',2000,10)
```

1 row(s) inserted.

Statement 9

```
insert into emp values(2,'Akshat','Lect',1000,40)
```

ORA-02291: integrity constraint (SQL_IVSRHGNBEWFTJMPMQEULUBIYE.SYS_C0054634717) violated - parent key not found ORA-06512: at "SYS.DBMS_SQL", line 1721

Statement 10

```
 insert into emp values(2,'Aksaht','Lect',10000,30)
```

ORA-02291: integrity constraint (SQL_IVSRHGNBEWFTJMPMQEULUBIYE.SYS_C0054634717) violated - parent key not found ORA-06512: at "SYS.DBMS_SQL", line 1721

Statement 11

```
 insert into emp values(3,'Arsh','AP',30000,20)
```

1 row(s) inserted.

My Session   ⓘ   Actions ⌄   ⟲ Reset Session   💾 Save

Statement 12

```
select * from emp
```

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Prateek	Prof	2000	10
3	Arsh	AP	30000	20

Download CSV
2 rows selected.

Statement 13

```
create table salesperson
(
    sno Number(10) Primary Key ,
    sname varchar(20),
    city varchar(20)
)
```

Table created.

Statement 14

```
 insert into salesperson values(1,'Arsh','Jammu')
```

1 row(s) inserted.

Statement 15

```
 insert into salesperson values(2,'Prateek','Amritsar')
```

1 row(s) inserted.

Statement 16

```
 insert into salesperson values(3 ,'Lovish','Bathinda')
```

My Session ⓘ Actions ⌄ ↺ Reset Session 🖫 Save

Statement 17
✎ ▷ 🗑

```
select * from salesperson
```

SNO	SNAME	CITY
1	Arsh	Jammu
2	Prateek	Amritsar
3	Lovish	Bathinda

Download CSV
3 rows selected.

Statement 18
✎ ▷ 🗑

```
create table part
(
    sno Number(10) Primary Key ,
    sname varchar(20),
    color varchar(20)
)
```

Table created.

Statement 19
✎ ▷ 🗑

```
insert into part values(1,'bolt','White')
```

1 row(s) inserted.

Statement 20
✎ ▷ 🗑

```
insert into part values(2,'nut','Black')
```

1 row(s) inserted.

Statement 21

```
insert into part values(3 ,'screw','Brown')
```

My Session ⓘ Actions ⌄ ↺ Reset Session 🖫 Save

Statement 22
✎ ▷ 🗑

```
select * from part
```

SNO	SNAME	COLOR
1	bolt	White
2	nut	Black
3	screw	Brown

Download CSV
3 rows selected.

Statement 23
✎ ▷ 🗑

```
create table pproject
(
    jno Number(10) Primary Key ,
    jname varchar(20),
    city varchar(20)
)
```

Table created.

Statement 24
✎ ▷ 🗑

```
insert into pproject values(1,'Fitness_App','Jammu')
```

1 row(s) inserted.

Statement 25
✎ ▷ 🗑

```
insert into pproject values(2,'ML','Amritsar')
```

1 row(s) inserted.

Statement 26

```
insert into pproject values(3 ,'Website','Bathinda')
```

1 row(s) inserted.

Statement 27

```
select * from pproject
```

JNO	JNAME	CITY
1	Fitness_App	Jammu
2	ML	Amritsar
3	Website	Bathinda

Download CSV

3 rows selected.

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Thank you...