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A Practical activity Report submitted for UCS310

DATABASE MANAGEMENT SYSTEM



Computer Science and Engineering
Patiala Campus
2021

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 -

```
ELIVE SQL

SQL Worksheet

Clear Sp. Find Actions 
Run 

CREATE TABLE emp(empro int, enome varchar(30), job varchar(30), sal int, commission int, deptno int);

INSERT INTO emp VALUES(02, 'Vash', 'Clerk', 1000, 300, 01);

INSERT INTO emp VALUES(04, 'Knatanya', 'Employee', 2500, 500, 10);

INSERT INTO emp VALUES(06, 'Knatanya', 'Employee', 2500, 500, 10);

INSERT INTO emp VALUES(06, 'Knatanya', 'Employee', 2500, 500, 30);

SELECT salt-commission AS AMOUNT FROM Emp;

ALTER TABLE emp

ADD hiredate DATE;

UPDATE emp SET hiredate = '25-Mar-1985';

UPDATE emp SET hiredate = '25-Mar-2021' WHERE job='Employee';

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

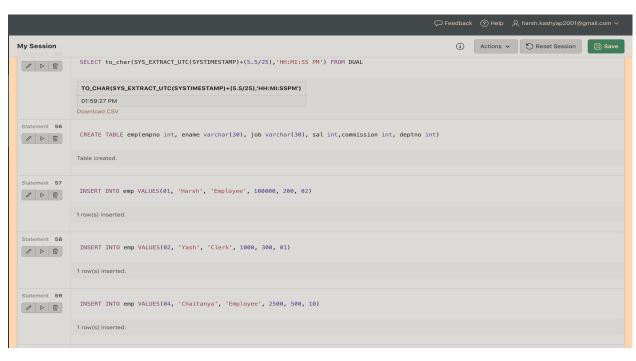
SELECT * FROM emp WHERE to_char(hiredate, 'YYYY') = to_char(SYSDATE, 'YYYY');

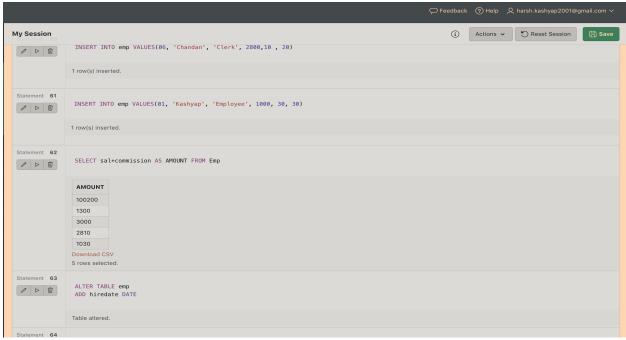
SELECT * FROM emp WHERE to_char(hiredate, 'YYYY') = to_char(SYSDATE, 'YYYY');
```

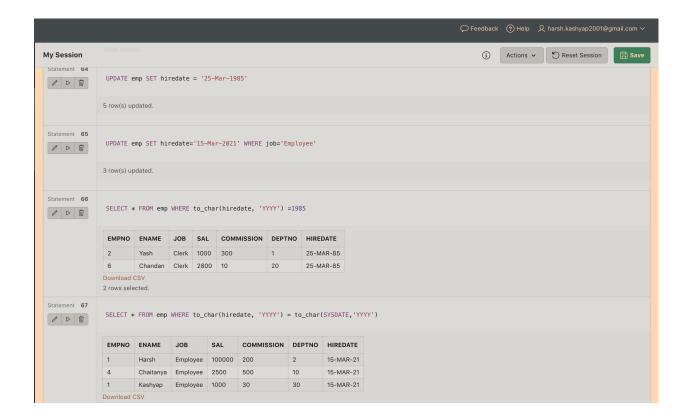
Script:

```
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');
```

Screenshots







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
  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 );
 f insertion

f insert into dept values(10, 'Acc');

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

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

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

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

#question 1

react table emp

f (

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) Preferences dept (deptno)

; ;

3

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

insert into emp values(2, 'Akshat', 'Lect', 10000, 30);

insert into emp values(2, 'Akshat', 'Lect', 10000, 30);

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

select * from emp;
                                                                                                                                                                                                                                                                                                                                                                                                                                  58
58
58
58
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', 'Amritsan');
69 insert into pproject values(3, 'Website', 'Bathinda');
70 select * from pproject;
```

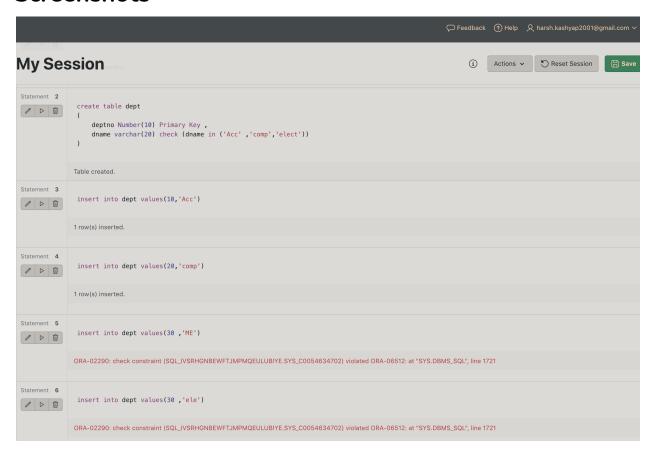
Script:

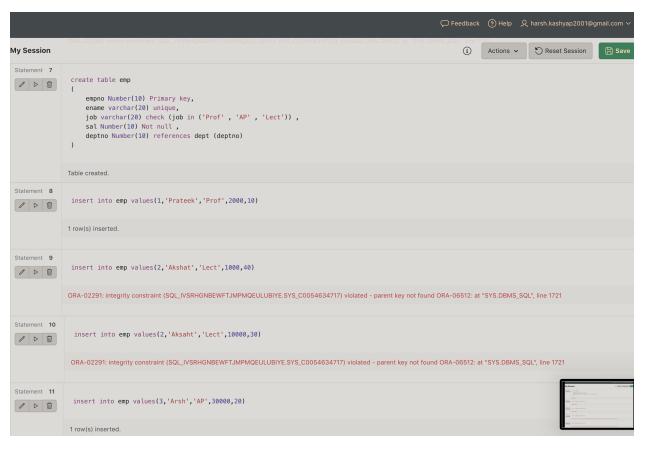
```
#question 2
create table dept
(
    deptno Number(10) Primary Key ,
    dname varchar(20) check (dname in ('Acc' ,'comp','elect'))
);
#insertion
insert into dept values(10,'Acc');
```

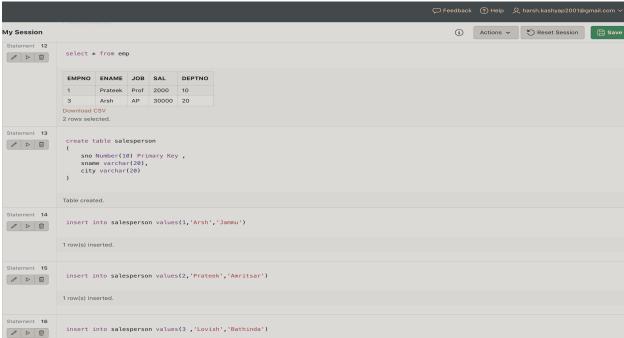
```
insert into dept values(20,'comp');
insert into dept values(30, 'ME');
insert into dept values(30, 'ele');
#question 1
create table emp
  empno Number(10) Primary key,
  ename varchar(20) unique,
  job varchar(20) check (job in ('Prof', 'AP', 'Lect')),
  sal Number(10) Not null,
  deptno Number(10) 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),
```

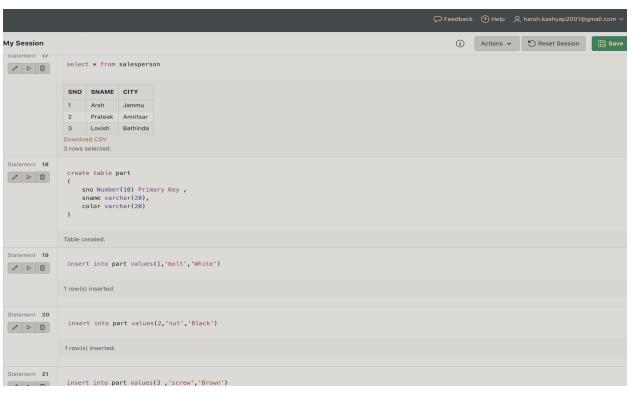
```
city varchar(20)
);
insert into pproject values(1,'Fitness_App','Jammu');
insert into pproject values(2,'ML','Amritsar');
insert into pproject values(3,'Website','Bathinda');
select * from pproject;
```

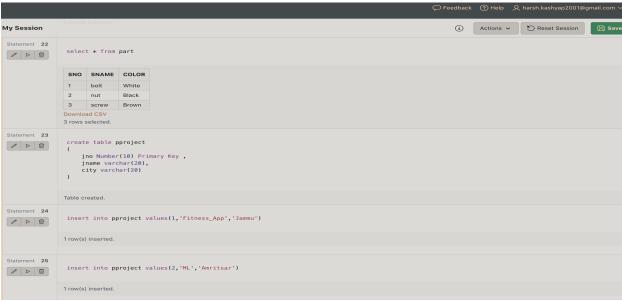
Screenshots













Thank you...