Exp-2

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Ex.No.: 2		DATA MANIPULATIONS
Date:	08/08/2024	

a) Find out the employee id, names, salaries of all the employeesselect

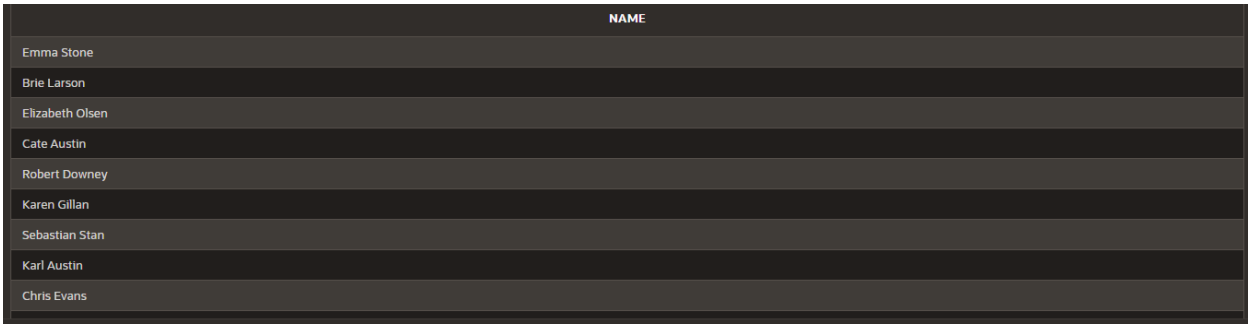
Employee_id, First_Name, Salary from EMPLOYEES;

b) List out the employees who works under manager 100

```
select First_Name || ' ' || Last_Name as name from EMPLOYEES  where manager_id
=100;
```

c) Find the names of the employees who have a salary greater than or equal to 4800

```
select First_Name || ' ' || Last_Name as name from EMPLOYEES
Where salary >= 4800;
```



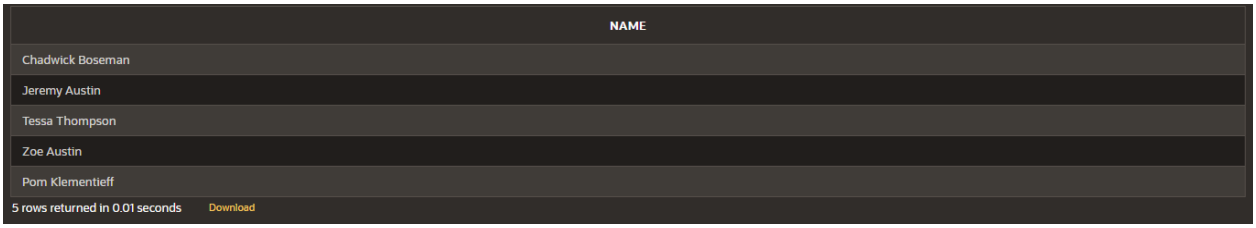
NAME
Emma Stone
Brie Larson
Elizabeth Olsen
Cate Austin
Robert Downey
Karen Gillan
Sebastian Stan
Karl Austin
Chris Evans

d) List out the employees whose last name is AUSTIN

```
select First_Name || ' ' || Last_Name as name from EMPLOYEES
where Last_Name = 'Austin';
```

e) Find the names of the employees who works in departments 60,70 and 80

```
select First_Name || ' ' || Last_Name as name from EMPLOYEES
where Department_id in (60,70,80);
```

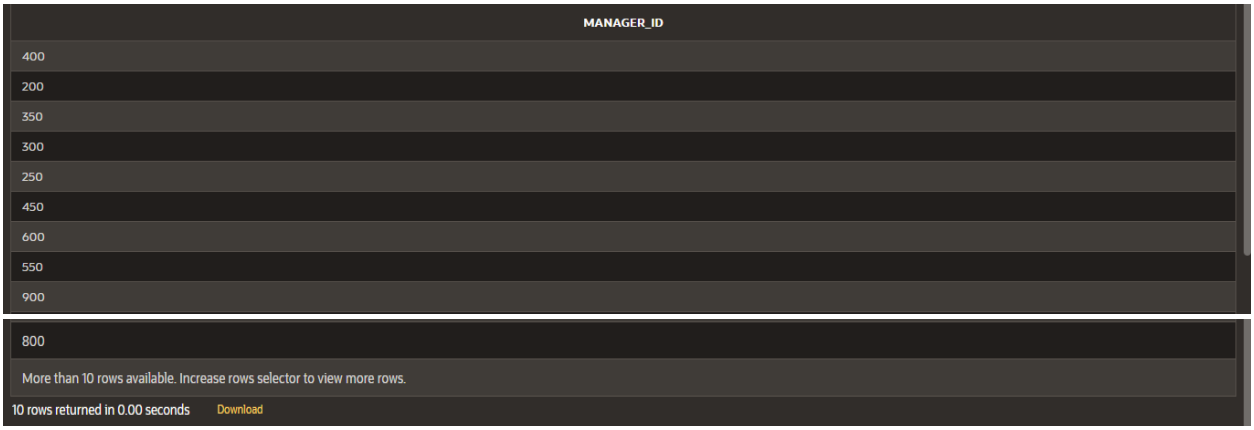


NAME
Chadwick Boseman
Jeremy Austin
Tessa Thompson
Zoe Austin
Pom Klementieff

5 rows returned in 0.01 seconds Download

f) Display the unique Manager_Id.

```
select DISTINCT(manager_id) from EMPLOYEES;
```



MANAGER_ID
400
200
350
300
250
450
600
550
900
800
More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds Download

(a) Insert Five Records and calculate GrossPay and NetPay.

```
INSERT INTO Emp (EmpNo, EmpName, Job, Basic, DA, HRA, PF, GrossPay, NetPay)
VALUES (
101, 'John Doe', 'Manager', 50000, 15000, 20000, 6000,0,0  ,
```

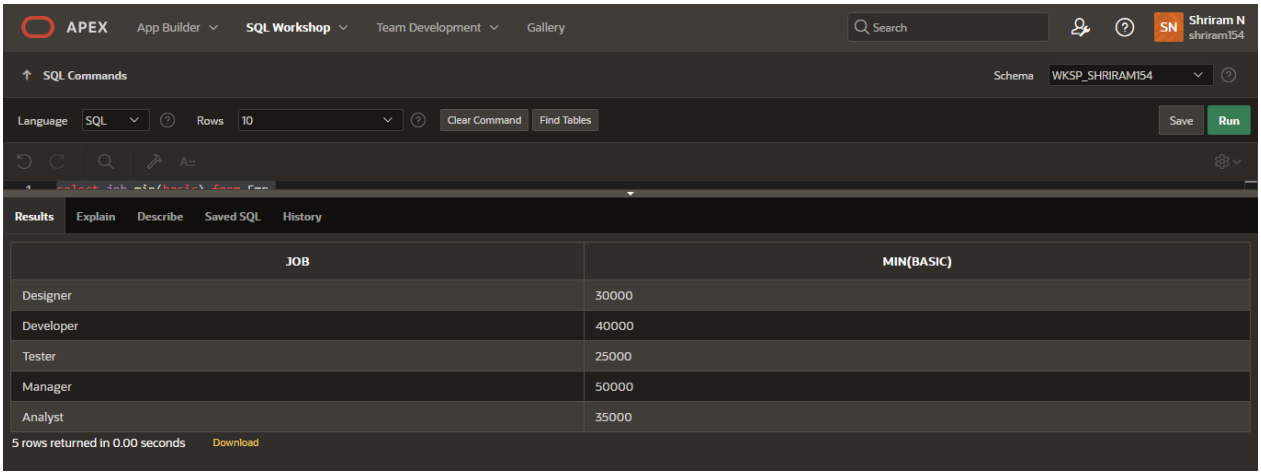
```
102, 'Jane Smith', 'Developer', 40000, 12000, 16000, 4800,0,0   ,
103, 'Alice Johnson', 'Analyst', 35000, 10500, 14000, 4200,0,0   ,
104, 'Bob Brown', 'Designer', 30000, 9000, 12000, 3600,0,0  ,
105, 'Charlie Davis', 'Tester', 25000, 7500, 10000, 3000,0,0
)

update emp
set GrossPay = Basic+DA+HRA
where Grosspay = 0;

update emp
set NetPay = Grosspay - PF
where Netpay = 0;
```

(b) Display the employees whose Basic is lowest in each department.select

```
job,min(basic) from Emp
group by Job;
```



1. Create the DEPT table based on the DEPARTMENT following the table instancechart below. Confirm that the table is created.

```
Create table DEPT(
```

```
    ID Number(7),
    Name varchar(25)
);
```

```
Desc DEPT;
```

Object Type **TABLE** Object **DEPT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	ID	NUMBER	-	7	0	-	✓	-	-
	NAME	VARCHAR2	25	-	-	-	✓	-	-

1 - 2

2) Create the EMP1 table based on the following instance chart. Confirm that the tableis created.

```
create  table  EMP1(
   ID Number(7),
   First_name    varchar(25),
   Last_name     varchar(25),
   Dept_id Number(7)
);
```

```
Desc EMP1;
```

Object Type **TABLE** Object **EMPS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPS	ID	NUMBER	-	7	0	-	✓	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_ID	NUMBER	-	7	0	-	✓	-	-

1 - 4

3) Modify the EMP1 table to allow for longer employee last names. Confirm the modification.(Hint: Increase the size to 50)

```
ALTER TABLE EMP1
modify Last_name varchar(50);
```

Object Type **TABLE** Object **EMPS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPS	ID	NUMBER	-	7	0	-	✓	-	-
	LAST_NAME	VARCHAR2	50	-	-	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_ID	NUMBER	-	7	0	-	✓	-	-

1 - 4

4) Create the EMPLOYEES2 table based on the structure of EMPLOYEES table. Include Only the Employee_id, First_name, Last_name, Salary and Dept_id coloumns.Name the columns Id, First_name, Last_name, salary and Dept_id respectively.

```
create table EMPLOYEES2(ID
    Number(10), First_name
    varchar(50), Last_name
    varchar(50), Salary
    Number(10), Dept_id
    Number(10)
);
```

5) Drop the EMP1 table.

```
drop table EMP1;
```

6) Rename the EMPLOYEES2 table as EMP1.

```
ALTER TABLE EMPLOYEES2 RENAME TO EMP1;
```

7) Add a comment on DEPT and EMP1 tables. Confirm the modification by describingthe table.

```
comment on TABLE DEPT IS 'this table contains the fields ID and NAME..';

SELECT TABLE_NAME, COMMENTS
FROM USER_TAB_COMMENTS
```

Object Type **TABLE** Object **EMPS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPS	EMPLOYEE_ID	NUMBER	-	9	0	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	SALARY	NUMBER	-	9	0	-	✓	-	-
	DEPT_ID	NUMBER	-	4	0	-	✓	-	-

1 - 5

WHERE TABLE_NAME = 'DEPT';

```
comment on TABLE EMP1 IS 'this table contains the fields ID,first name,lastname,salary,DEPT_id..';

SELECT TABLE_NAME, COMMENTS
FROM USER_TAB_COMMENTS
WHERE TABLE_NAME = 'EMP1';
```

Object Type **TABLE** Object **DEPT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT	ID	NUMBER	-	7	0	-	✓	-	Should only be numbers
	NAME	VARCHAR2	25	-	-	-	✓	-	-

1 - 2

8) Drop the First_name column from the EMP table and confirm it.

```
ALTER TABLE EMP1
drop column First_name;
```

TABLE_NAME	TABLE_TYPE	COMMENTS
MY_EMPLOYEE	TABLE	-
HTMLDB_PLAN_TABLE	TABLE	-
EMPS	TABLE	ALL Employees
EMP	TABLE	-
DEPT	TABLE	ALL Departments
DEMO_USERS	TABLE	-
DEMO_STATES	TABLE	-
DEMO_PRODUCT_INFO	TABLE	-
DEMO_ORDER_ITEMS	TABLE	-
DEMO_ORDERS	TABLE	-
More than 10 rows available. Increase rows selector to view more rows.		