SQL Practice Project -5 submitted by Sujit Sonar:

DESCRIPTION
An HR of the company wants to analyze the performance of the employees and calculate their salary.

Objective:
The database design helps to retrieve the employees' details based on certain criteria which are listed below.

Tasks to be performed:

- Write a query to **create** an **employee table** and a **department table**.

Employee Table:

```
3 •  create table employee
4    (emp_id int not null primary key,
5    f_name varchar(225),
6    l_name varchar(225),
7    job_id varchar(100),
8    salary double,
9    manager_id int,
10   dept_id int) engine = InnoDB;
```

```
12 •  describe employee;
```

Result Grid | Filter Rows: | Export:

#	Field	Type	Null	Key	Default	Extra
1	emp_id	int	NO	PRI	NULL	
2	f_name	varchar(225)	YES		NULL	
3	l_name	varchar(225)	YES		NULL	
4	job_id	varchar(100)	YES		NULL	
5	salary	double	YES		NULL	
6	manag...	int	YES		NULL	
7	dept_id	int	YES		NULL	

```sql
insert into SQL_basics.employee
(emp_id, f_name, l_name, job_id, salary, manager_id, dept_id)
values
(101, 'ankit', 'jain', 'HP124', 200000, 2, 24),
(102, 'sarvesh', 'patel', 'HP123', 150000, 2, 24),
(103, 'krishna', 'gee', 'HP125', 500000, 5, 44),
(104, 'rana', 'gee', 'HP122', 250000, 3, 54),
(105, 'soniya', 'jain', 'HP121', 400000, 1, 22),
(106, 'nithin', 'kumar', 'HP120', 300000, 4, 34),
(107, 'karan', 'patel', 'HP126', 300001, 2, 34),
(108, 'shilpa', 'jain', 'HP127', 300001, 5, 24),
(109, 'mukesh', 'singh', 'HP128', 300001, 4, 44);
```

Department table:

```sql
create table department (
dept_id int,
dept_name varchar(225),
location varchar(225),
manager_id int,
elocation_id int) engine = InnoDB;
```

Result Grid | Filter Rows: | Export:

#	Field	Type	Null	Key	Default	Extra
1	dept_id	int	YES		NULL	
2	dept_n...	varchar(225)	YES		NULL	
3	location	varchar(225)	YES		NULL	
4	manag...	int	YES		NULL	
5	elocati...	int	YES		NULL	

- Write a query to **insert** values in the employee and department tables.

Inserting values into employee:

```
14 •  insert into SQL_basics.employee
15    (emp_id, f_name, l_name, job_id, salary, manager_id, dept_id)
16    values
17    (101, 'ankit', 'jain', 'HP124', 200000, 2, 24),
18    (102, 'sarvesh', 'patel', 'HP123', 150000, 2, 24),
19    (103, 'krishna', 'gee', 'HP125', 500000, 5, 44),
20    (104, 'rana', 'gee', 'HP122', 250000, 3, 54),
21    (105, 'soniya', 'jain', 'HP121', 400000, 1, 22),
22    (106, 'nithin', 'kumar', 'HP120', 300000, 4, 34),
23    (107, 'karan', 'patel', 'HP126', 300001, 2, 34),
24    (108, 'shilpa', 'jain', 'HP127', 300001, 5, 24),
25    (109, 'mukesh', 'singh', 'HP128', 300001, 4, 44);
```

Inserting values into Department:

```
13 •  insert into department
14    (dept_id, dept_name, location, manager_id, elocation_id)
15    values
16    (22,'administration', 'uk', 1, 218),
17    (24,'production', 'india', 2, 212),
18    (34,'development', 'india', 4, 212),
19    (44,'communication', 'usa', 5, 220),
20    (54,'maintenance', 'usa', 3, 220);
21
22 •  select * from SQL_basics.department;
23
```

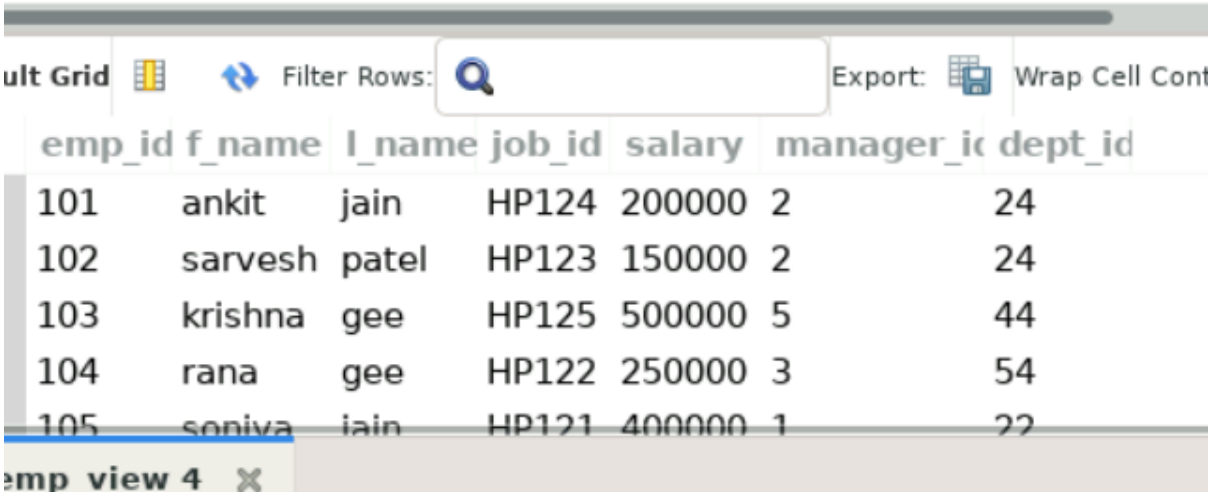
sult Grid | Filter Rows: | Export: | Wrap Cell Content:

dept_id	dept_name	location	manager_id	elocation_id
22	administration	uk	1	218
24	production	india	2	212
34	development	india	4	212
44	communication	usa	5	220
54	maintenance	usa	3	220

- Write a query to create a **view** of the employee and department tables.

Creating Employee view table:

```
25 •   create view emp_view as
26     select * from SQL_basics.employee;
27
28 •   select * from emp_view;
```



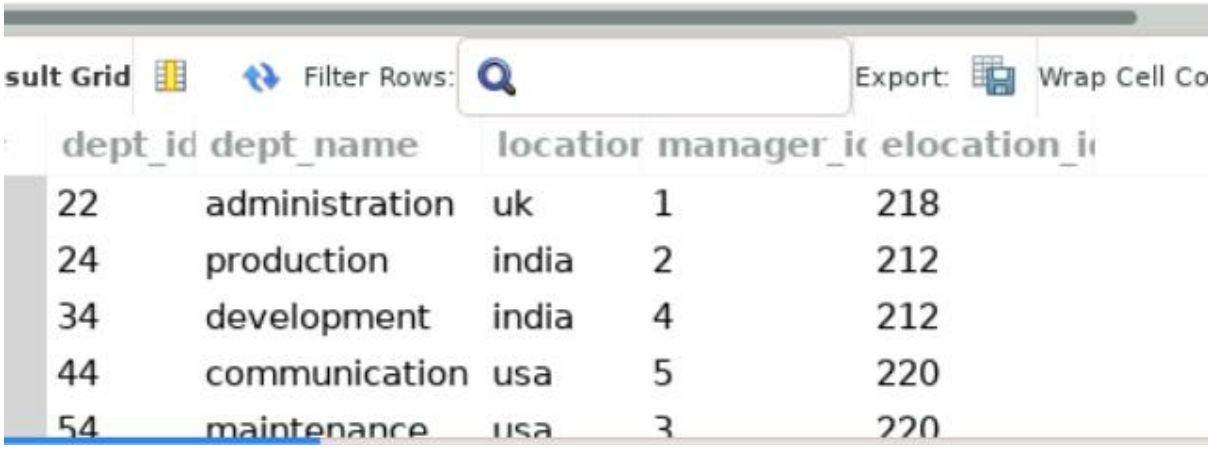
ult Grid | Filter Rows: | Export: | Wrap Cell Cont

emp_id	f_name	l_name	job_id	salary	manager_i	dept_id
101	ankit	jain	HP124	200000	2	24
102	sarvesh	patel	HP123	150000	2	24
103	krishna	gee	HP125	500000	5	44
104	rana	gee	HP122	250000	3	54
105	soniya	jain	HP121	400000	1	22

emp_view 4

Creating Department View Table:

```
25 •   create view dept_view as
26     select * from SQL_basics.department;
27
28 •   select * from dept_view;
```



sult Grid | Filter Rows: | Export: | Wrap Cell Co

dept_id	dept_name	locatior	manager_i	elocation_i
22	administration	uk	1	218
24	production	india	2	212
34	development	india	4	212
44	communication	usa	5	220
54	maintenance	usa	3	220

- Write a query to display first name and last name of the employees from the employee table and an SQL basics view table if the **employee's salary in the SQL basics table is greater than the salary in the employee table**.

My understanding to this question was to display the first name, last name from the main employee table if the view table ha salary greater than the main table for any given employee.

> *Not able to solve this question, because when I create a view, the salary in the main table and the view table are the same so, I was not able to apply the if condition here " if the* ***employee's salary in the SQL basics table is greater than the salary in the employee table****."*

Because both the main table and view table has the same salary value, so the display result us blank

This is what I tried.

```
54
55 •  select e.emp_id ,e.f_name, e.l_name, e.salary , v.salary
56    from employee e , emp_view v
57    where e.emp_id = v.emp_id
58    and v.salary > e.salary;
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content:

#	emp_id	f_name	l_name	salary	salary

- Write a query to change the **delimiter to //.**

```
50    /* changing he default demilimiter from ; to &&*/
51    delimiter &&
52
53 •  create procedure get_emp_data()
54    begin
55    select * from emp_view;
56    end &&
57
```

- Write a query to create a **stored procedure** using an employee table if the **salary is greater than or equal to 250000**.

```
73    delimiter &&
74
75 •  create procedure sal_greater_than_250000()
76    begin
77    select * from employee
78    where salary > 250000 ;
```

- Write a query to **execute** the stored procedure.

```
81 •  call sal_greater_than_250000;
```

esult Grid | Filter Rows: | Export: | Wrap Cell Con

#	emp_id	f_name	l_name	job_id	salary	manager_i	dept_i
1	103	krishna	gee	HP125	500000	5	44
2	105	soniya	jain	HP121	400000	1	22
3	106	nithin	kumar	HP120	300000	4	34
4	107	karan	patel	HP126	300001	2	34
5	108	shilpa	jain	HP127	300001	5	24

- Write a query to create a stored procedure with **one parameter** using **ORDER BY salary in descending order**, and execute the stored procedure.

```
drop procedure if exists get_emp_dat_one_parameter;

delimiter &&

•  create procedure get_emp_dat_one_parameter (eid int)
   begin
   select * from employee
   where emp_id = eid
   order by salary desc;
   end &&

•  call get_emp_dat_one_parameter (107);
```

Grid | Filter Rows: | Export: | Wrap Cell Content:

emp_id	f_name	l_name	job_id	salary	manager_i	dept_id
107	karan	patel	HP126	300001	2	34

########## END##########