#### **EXPERIMENT:2**

#### NITHEESH K -231901035

DATE: 01/08/2024

## DATA MANIPULATIONS.

create table employees(employee\_id number(6),First\_Name varchar(20),Last\_Name varchar(25),Email varchar(25),Phone\_number varchar(20),hire\_date date,Job\_id varchar(10),Salary number(8,2),Commission\_pct number(2,2),Manager\_id number(6),Department\_id number(4));

Column Name	Data Type	Nullable	Default	Primary Key
EMPLOYEE_ID	NUMBER(6,0)	Yes	<del>.</del>	
FIRST_NAME	VARCHAR2(20)	Yes	-	
LAST_NAME	VARCHAR2(25)	Yes		
EMAIL	VARCHAR2(25)	Yes		
PHONE_NUMBER	VARCHAR2(20)	Yes		
HIRE_DATE	DATE	Yes		
JOB_ID	VARCHAR2(10)	Yes		
SALARY	NUMBER(8,2)	Yes		
COMMISSION_PCT	NUMBER(2,2)	Yes		
MANAGER_ID	NUMBER(6,0)	Yes		
DEPARTMENT_ID	NUMBER(4,0)	Yes		
		a. a. a. a. a. g. g.		1 - 11

#### Insert into employees

values(3,'Ralph','Patel','rpatel@gmail.com',9768403822,'11-12-2000',13,5000,.25,101,40);

#### Insert into employees

values(4,'George','Austin','geaustin@gmail.com',9573268191,'09-10-2018',14,6000,.3,103,60);

#### Insert into employees values

(1,'Ben','Chad','bchad@gmail.com',9493836325,'24-07-2022',11,4500,.15,100,70);

#### Insert into employees values

(2, 'Bety', 'Dancs', 'bdancs@gmail.com', 9763467298, '19-05-2021', 12, 4800, .17, 100, 56);

#### Insert into employees values

(5,'Audrey','Austin','audaustin@gmail.com',9684357377,'06-05-2017',15,7000,.35,104,80);

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
3	Ralph	Patel	rpatel@gmail.com	768403822	11/12/2000	13	5000	.25	101	40
4	George	Austin	geaustin@gmail.com	9573268191	09/10/2018	14	6000	.3	103	60
1	Ben	Chad	bchad@gmail.com	9493836325	04/07/2022	11	4500	.15	100	70
2	Bety	Dancs	bdancs@gmail.com	9763467298	09/05/2021	12	4800	.17	100	56
5	Audrey	Austin	audaustin@gmail.com	9684357377	06/05/2017	15	7000	.35	104	80

select employee\_id,first\_name,last\_name,salary from employees;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY
3	Ralph	Patel	5000
4	George	Austin	6000
1	Ben	Chad	4500
2	Bety	Dancs	4800
5	Audrey	Austin	7000

select \*from employees where manager\_id=100;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	Ben	Chad	bchad@gmail.com	9493836325	04/07/2022	11	4500	.15	100	70
2	Bety	Dancs	bdancs@gmail.com	9763467298	09/05/2021	12	4800	.17	100	56

select first\_name,last\_name from employees where salary>=4800;

FIRST_NAME	LAST_NAME
Ralph	Patel
George	Austin
Bety	Dancs
Audrey	Austin

select \*from employees where last\_name ='Austin';

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
4	George	Austin	geaustin@gmail.com	9573268191	09/10/2018	14	6000	.3	103	60
5	Audrey	Austin	audaustin@gmail.com	9684357377	06/05/2017	15	7000	.35	104	80

 $select\ first\_name\ , last\_name\ from\ employees\ where\ department\_id=60\ or\ department\_id=70\ or\ department\_id=80;$ 

FIRST_NAME	LAST_NAME
George	Austin
Ben	Chad
Audrey	Austin

select distinct manager\_id from employees;

MANAGER_ID
100
101
104
103

(2B)

Table	Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
EMP1	EMPNO	NUMBER		4	0		/		
	EMPNAME	VARCHAR2	25				/		-
	JOB	VARCHAR2	25				/		
	BASIC	NUMBER		10	0		~		-5000
	DA	NUMBER	*	10	0		~	×	*
	HRA	NUMBER		10	0		/		3-23333
	PF	NUMBER	74	10	0		/	-	
	GROSSPAY	NUMBER		10	0		/	-	
	NETPAY	NUMBER	14 1 1 1 1	10	0		/		4
								1	- 9

create table

emp1(empno number(4),empname varchar(25),job varchar(25),basic
number(10),danumber(10),hranumber(10),pf number(10),grosspay number(10),netpay
number(10));

#### insert into emp1

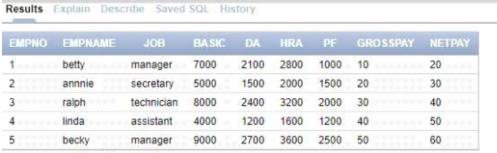
Object Type TABLE Object EMD4

values(1,'betty','manager',7000,2100,2800,1000,10,20); insert into emp1

values(2,'annnie','secretary',5000,1500,2000,1500,20,30); insert into emp1

values(3,'ralph','technician',8000,2400,3200,2000,30,40); insert intoemp1 values(4,'linda','assistant',4000,1200,1600,1200,40,50); insert into emp1

values(5,'becky','manager',9000,2700,3600,2500,50,60);



5 rows returned in 0.00 seconds

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#### update emp1

set grosspay=basic+da+hra+pf;

#### set netpay=basic-pf;

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
1	betty	manager	7000	2100	2800	1000	12900	6000
2	annnie	secretary	5000	1500	2000	1500	10000	3500
3		technician	8000	2400	3200	2000	15600	6000
4	linda	assistant	4000	1200	1600	1200	8000	2800
5	becky	manager	9000	2700	3600	2500	17800	6500

<sup>5</sup> rows returned in 0.01 seconds Download

#### select \* from emp1

# where basic=(select min(basic) from emp1); results Explain Describe Saved SQL History

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
4	linda	assistant	4000	1200	1600	1200	8000	2800

<sup>1</sup> rows returned in 0.01 seconds <u>Download</u>

#### select \* from emp1

#### where netpay=(select min(netpay)from emp1);

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPA
4	linda	assistant	4000	1200	1600	1200	8000	2800

1 rows returned in 0.00 seconds <u>Download</u>

#### (2c)

create table emp3(id number(7) primary key not null,last\_name varchar2(25) not null,first\_namevarchar2(25),dept\_id number(7));

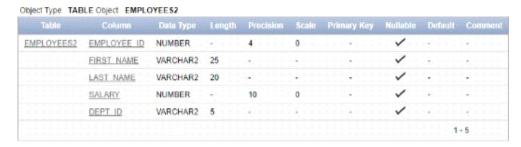
# Object Type TABLE Object EMP3 Table Column Data Type Length Precision Scale Primary Key Nullable Default Comment EMP3 ID NUMBER 7 0 1 LAST NAME VARCHAR2 25 FIRST NAME VARCHAR2 25 DEPT ID NUMBER 7 0 ✓ 1 - 4

#### alter table emp3

#### modify last\_name varchar2(50);

Table	Column	Data Type	Length			Primary Key	Nullable		Commen
EMP3	<u>ID</u>	NUMBER	-	7	0	1	-	-	-
	LAST NAME	VARCHAR2	50	-	-	-	-	-	-
	FIRST NAME	VARCHAR2	25	-	-	-	~	-	-
	DEPT ID	NUMBER		7	0	-	/		

create table employees2(employee\_id number(4),first\_name varchar(25),last\_name
varchar(20),salarynumber(10),dept\_id varchar(5));

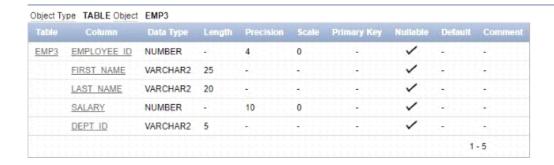


drop table emp3;

Table dropped.

0.38 seconds

alter table employees2 rename to emp3;



### alter table emp3

# drop column first\_name;

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Commen
EMP3	EMPLOYEE ID	NUMBER		4	0		~		-
	LAST NAME	VARCHAR2	20				/		
	SALARY	NUMBER	-	10	0	-	~	-	-
	DEPT ID	VARCHAR2	5	-	-	-	~	-	-
								1	- 4