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	-	-
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	-	-
				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)

Object Type **TABLE** Object **EMP1**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP1	EMPNO	NUMBER	-	4	0	-	✓	-	-
	EMPNAME	VARCHAR2	25	-	-	-	✓	-	-
	JOB	VARCHAR2	25	-	-	-	✓	-	-
	BASIC	NUMBER	-	10	0	-	✓	-	-
	DA	NUMBER	-	10	0	-	✓	-	-
	HRA	NUMBER	-	10	0	-	✓	-	-
	PF	NUMBER	-	10	0	-	✓	-	-
	GROSSPAY	NUMBER	-	10	0	-	✓	-	-
	NETPAY	NUMBER	-	10	0	-	✓	-	-

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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 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);

Results Explain Describe Saved SQL History

EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
1	betty	manager	7000	2100	2800	1000	10	20
2	annnie	secretary	5000	1500	2000	1500	20	30
3	ralph	technician	8000	2400	3200	2000	30	40
4	linda	assistant	4000	1200	1600	1200	40	50
5	becky	manager	9000	2700	3600	2500	50	60

5 rows returned in 0.00 seconds Download

update emp1

set grosspay=basic+da+hra+pf;

set netpay=basic-pf;

Results Explain Describe Saved SQL History

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	ralph	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

5 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

1 rows returned in 0.01 seconds Download

select * from emp1

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

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

1 rows returned in 0.00 seconds Download

(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);

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	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_ID	NUMBER	-	7	0	-	✓	-	-
									1 - 4

create table employees2(employee_id number(4),first_name varchar(25),last_name varchar(20),salarynumber(10),dept_id varchar(5));

Object Type **TABLE** Object **EMPLOYEES2**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEES2	EMPLOYEE_ID	NUMBER	-	4	0	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	LAST_NAME	VARCHAR2	20	-	-	-	✓	-	-
	SALARY	NUMBER	-	10	0	-	✓	-	-
	DEPT_ID	VARCHAR2	5	-	-	-	✓	-	-
									1 - 5

drop table emp3;

```
Table dropped.

0.38 seconds
```

alter table employees2 rename to emp3;

Object Type TABLE Object EMP3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP3	EMPLOYEE_ID	NUMBER	-	4	0	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	LAST_NAME	VARCHAR2	20	-	-	-	✓	-	-
	SALARY	NUMBER	-	10	0	-	✓	-	-
	DEPT_ID	VARCHAR2	5	-	-	-	✓	-	-
									1 - 5

alter table emp3

drop column first_name;

Object Type TABLE Object EMP3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP3	EMPLOYEE_ID	NUMBER	-	4	0	-	✓	-	-
	LAST_NAME	VARCHAR2	20	-	-	-	✓	-	-
	SALARY	NUMBER	-	10	0	-	✓	-	-
	DEPT_ID	VARCHAR2	5	-	-	-	✓	-	-
									1 - 4