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

create table emp1(empno number(4),empname varchar(25),job varchar(25),basic number(10),da number(10),hra number(10),pf number(10),grosspay number(10),netpay number(10));

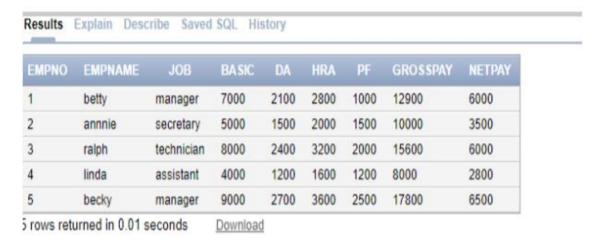
Object Ty	pe TABLE Ob	ject EMP1							
Table	Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
EMP1	<u>EMPNO</u>	NUMBER	-	4	0	-	~	-	-
	EMPNAME	VARCHAR2	25	-	-	-	~	-	-
	<u>JOB</u>	VARCHAR2	25	-	-	-	~	-	-
	BASIC	NUMBER		10	0	-	~		-
	DA	NUMBER	-	10	0	-	~	-	-
	<u>HRA</u>	NUMBER	-	10	0	-	~	-	-
	<u>PF</u>	NUMBER	-	10	0	-	~	-	-
	GROSSPAY	NUMBER	-	10	0	-	~	-	-
	NETPAY	NUMBER	-	10	0	-	~	-	-
								1	- 9

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 into emp1 values(4,'linda','assistant',4000,1200,1600,1200,40,50); insert into emp1 values(5,'becky','manager',9000,2700,3600,2500,50,60);

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
1	linda	assistant	4000	1200	1600	1200	40	50
5	becky	manager	9000	2700	3600	2500	50	60

update emp1
set grosspay=basic+da+hra+pf;

set netpay=basic-pf;



select * from emp1

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

Results	Explain Desc	inde Save	a SQL H	ISTORY				
EMPNO	EMPNAME	JOB	BASIC	DA	HRA	PF	GROSSPAY	NETPAY
4	linda	assistant	4000	1200	1600	1200	8000	2800
1 rows retu	urned in 0.01 s	seconds	Downloa	ıd				

select * from emp1

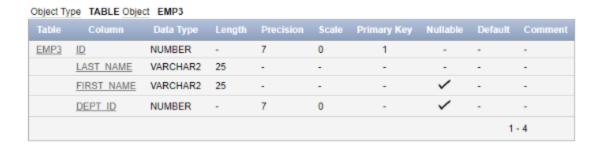
where netpay=(select min(netpay)from emp1);

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

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(2c)

create table emp3(id number(7) primary key not null,last_name varchar2(25) not null,first_name varchar2(25),dept_id number(7));



alter table emp3

modify last_name varchar2(50);

TABLE Object	EMP3							
Column	Data Type	Length	Precision		Primary Key	Nullable	Default	Comment
<u>)</u>	NUMBER	-	7	0	1	-	-	-
AST NAME	VARCHAR2	50	-	-	-	-	-	-
IRST NAME	VARCHAR2	25	-	-	-	~	-	-
EPT ID	NUMBER	-	7	0	-	~	-	-
							1	- 4
/	AST_NAME	NUMBER AST NAME VARCHAR2 RST NAME VARCHAR2	Column Data Type Length NUMBER - AST NAME VARCHAR2 50 RST NAME VARCHAR2 25	Column Data Type Length Precision NUMBER - 7 AST_NAME VARCHAR2 50 - RST_NAME VARCHAR2 25 -	Column Data Type Length Precision Scale NUMBER - 7 0 AST NAME VARCHAR2 50 - - RST NAME VARCHAR2 25 - -	Column Data Type Length Precision Scale Primary Key NUMBER - 7 0 1 AST_NAME VARCHAR2 50 - - - RST_NAME VARCHAR2 25 - - -	Column Data Type Length Precision Scale Primary Key Nullable NUMBER - 7 0 1 -	Column Data Type Length Precision Scale Primary Key Nullable Default NUMBER - 7 0 1 - - AST NAME VARCHAR2 50 - - - - - RST NAME VARCHAR2 25 - - - ✓ - EPT ID NUMBER - 7 0 - ✓ -

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



drop table emp3;

Table dropped.

0.38 seconds

alter table employees2 rename to emp3;

Object Ty	pe TABLE Object	EMP3							
Table	Column	Data Type	Length	Precision		Primary Key		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 Ty	pe TABLE Object	EMP3							
Table	Column	Data Type	Length	Precision		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