

DATA MANIPULATIONS

Date: 08/08/2024

a) Find out the employee id, names, salaries of all the employees `select`

Employee_id, First_Name, Salary from EMPLOYEES;

EMPLOYEE_ID	FIRST_NAME	SALARY
1	Allen	9000
2	Eliot	5000
3	Robert	9000
4	Southern	8000
5	Chen	7000
6	Hart	1200
7	Chen	7000
8	Jones	8000
9	Dee	6000

b) List out the employees who works under manager 100

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

NAME
Cole Smith
Justin Miller

Times insured in 2014 accounts: [View](#)

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
George Blum
Eric Larson
Shawntel Jones
Cate Austin
Robert Dineen
Renee Clark
Jonathan Ryan
Paul Kuylenstierna
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';
```

NAME
Chris Austin
John Austin
Jessica Austin
Chris Austin
John Austin
Jessica 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
Charles Stevenson
Jessica Austin
Heidi Thompson
John Austin
John Watson

- f) Display the unique Manager_Id.

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

MANAGER_ID
800
700
900
100
750
850
950
100
100

- (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 ,
```

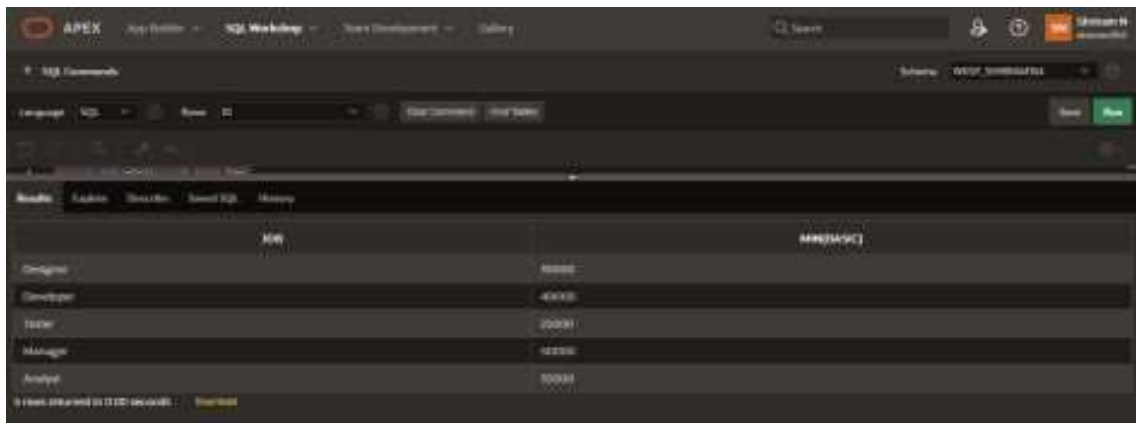
```
102, 'Jane Smith', 'Developer', 40000, 12000,
16000, 4800,0,0 , 103, 'Alice Johnson', 'Analyst',
35000, 10500, 14000, 4200,0,0 , 104, 'Bob
Brown', 'Designer', 30000, 9000, 12000,
3600,0,0 ,
105, 'Charlie Davis', 'Tester', 25000, 7500, 10000, 3000,0,0
```

)

```
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](#)



JOB	MIN(BASIC)
Designer	40000
Developer	45000
Tester	20000
Manager	12000
Analyst	30000

[by Job;](#)

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

[Create table DEPT\(](#)

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

Desc DEPT;

Results	Explain	Describe	Saved SQL	History					
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	-	-	-	✓	-	-

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

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

Desc EMP1;

Results

Explain

Describe

Saved SQL

History

Object Type

TABLE

Object

EMP1

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP1	ID	NUMBER	-	7	0	-	✓	-	-
	FIRST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	LAST_NAME	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_ID	NUMBER	-	7	0	-	✓	-	-

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

```
ALTERTABLE EMP1  
modify Last_name varchar(50);
```

Results Explain Describe Saved SQL History

Object Type TABLE ⓘ Object EMP1 ⓘ

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP1	ID	NUMBER	-	7	0	-		-	-
	FIRST_NAME	VARCHAR2	25	-	-	-		-	-
	LAST_NAME	VARCHAR2	50	-	-	-		-	-
	DEPT_ID	NUMBER	-	7	0	-		-	-

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 columns. 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 describing the table.

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

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

Results	Explain	Describe	Saved SQL	History
TABLE_NAME		COMMENTS		
DEPT		this table contains the fields ID and NAME.		
1 rows returned in 0.06 seconds Download				

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

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

Results	Explain	Describe	Saved SQL	History
TABLE_NAME		COMMENTS		
EMP1		this table contains the fields ID,first name,last name,salary,DEPT_id.		
1 rows returned in 0.04 seconds		Download		

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

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

Results Explain Describe Saved SQL History

Object Type TABLE Object EMP1

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMP1	ID	NUMBER	-	10	0	-		-	-
	LAST_NAME	VARCHAR2	50	-	-	-		-	-
	SALARY	NUMBER	-	10	0	-		-	-
	DEPT_ID	NUMBER	-	10	0	-		-	-