SQL-COMPLEX QUERIES

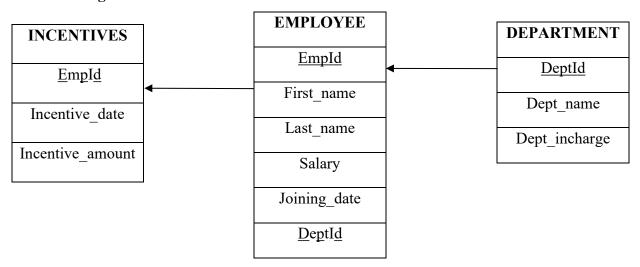
Date: 28.02.2023

Aim:

Ex No:5

To create the database for given schema diagram using oracle environment and answer the given set of simple queries.

Schema diagram:



Data dictionary:

Employee relation:

Employee relation.					
Attribute	Data type	constraint	Remarks		
EmpId	Varchar(50)	Primary key	Unique ID of employee		
First_name	Varchar(50)	-	First name of employee		
Last_name	Varchar(50)	_	Last name of employee		
Salary	number	-	Salary of employee		
Joining_date	date	_	Joining date of employee		
DeptId	Varcha(50)	Foreign key	Refers department table		

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Department relation:

Attribute	Data type	Constraints	Remarks
DeptId	Varchar(50)	Primary key	Unique ID of department
Dept_name	Varchar(50)	-	Department name
Dept_incharge	Varchar(50)	-	Department incharge

Incentives relation:

Attribute	Data type	Constraints	Remarks
EmpId	Varchar(50)	Foreign key	Refers employee table
Incentive_date	date	_	Incentives of date
Incentive_amount	Number	_	Incentives of amount

Procedure:

QUERIES:

1.Get department wise minimum salary from employee table order by salary.

select *

from employee

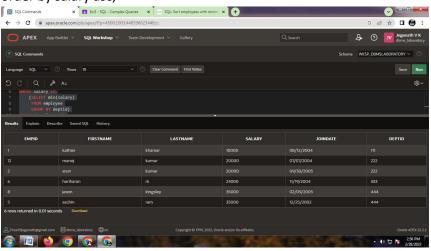
where salary in

(select min(salary)

from employee

group by deptid)

order by salary asc;

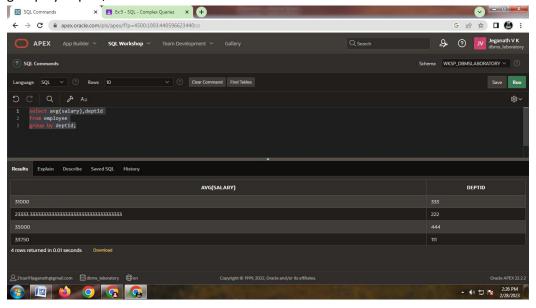


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2. Give the average salary received by each department employees.

select avg(salary),deptId from employee

group by deptId;



3. Get Employee ID's of those employees who receive incentives.

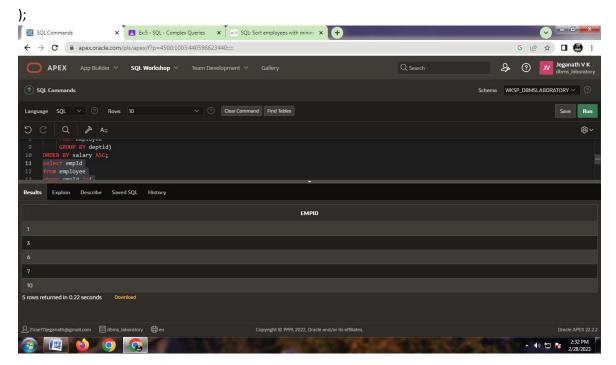
select empld

from employee

where empld in(

select empld

from incentive



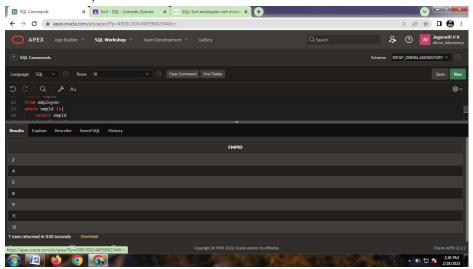
4. Get Employee ID's of those employees who didn't receive incentives without using sub query. select empld

from employee

minus

select empld

from incentive;



5. Update the incentives of 'Joseph' to 10,000.

update incentive

set incentiveAmount=10000

where empid in(

select empld

from employee

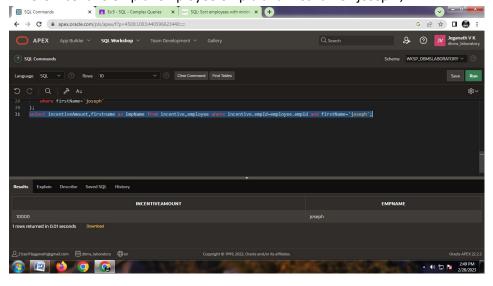
where firstName='joseph'

);

select incentiveAmount,firstname as EmpName

from incentive, employee

where incentive.empld=employee.empld and firstName='joseph';



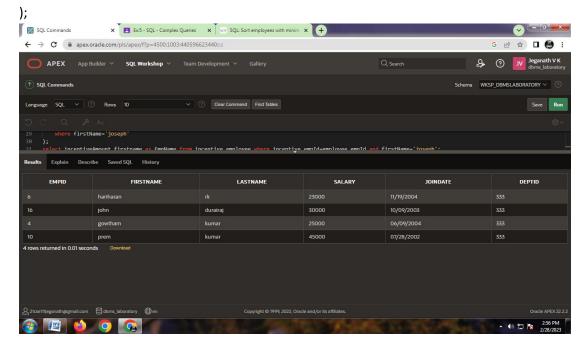
6. List the employees who are from the same department as 'Jhon'.

select *

from employee

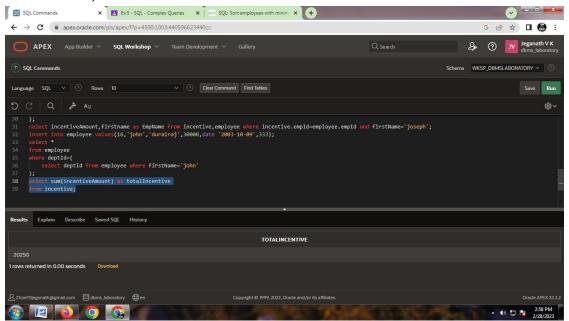
where deptId=(

select deptId from employee where firstName='john'



7. List the total incentive amount received by each employee. select sum(incentiveAmount) as totalIncentive

from incentive;



8. Give the department which has received highest incentive amount. select deptid from employee where empld =(select empid from incentive where incentiveAmount=(select max(incentiveAmount) from incentive)); X Exi5 - SQL - Complex Queries X M (no subject) - 21cse111jeganath (X + ← → C apex.oracle.com/pls/apex/f?p=4500:1003:440596623440::::: G 🖻 ☆ 🛮 🗐 : APEX App Builder × SQL Workshop × Team Development × Gallery **₽** ② Schema WKSP DBMSLABORATORY V Language SQL V ? Rows 10 \$ \$ \$ \$ \$ \$ incentiveAmount=(

| lect max(incentiveAmount) DEPTID

9. List the incentive date of the employees in 'February 28, 2023' format along with their name on which the employees have received their maximum incentives.

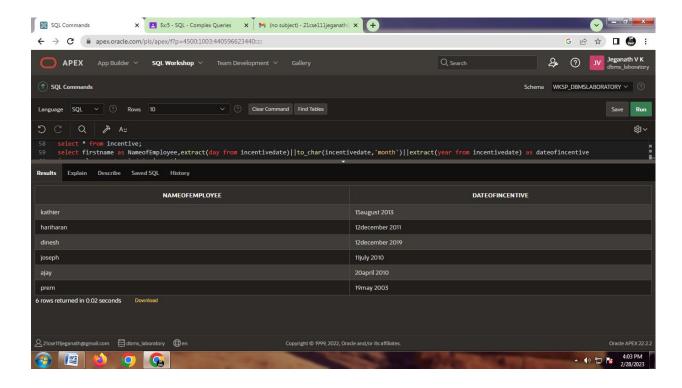
select firstname as NameofEmployee,extract(day from

 $incentive date) | | to_char(incentive date, 'month') | | extract(year from incentive date) \ as$

dateofincentive

from employee natural join incentive

where empid in(
select empid
from incentive
where incentiveamount in(
select max(incentiveamount)
from incentive
group by empid
)
);



10. Increment the least incentive received by of each employee by 10%.

update incentive

set incentiveAmount=IncentiveAmount+(IncentiveAmount*0.10)

where incentiveamount in (

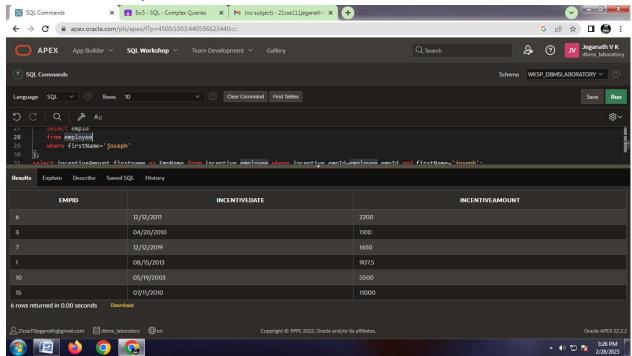
select min(incentiveamount)

from incentive

group by empld

);

select * from incentive;



Parameter	marks
Perfection in the table(05)	
Query standards(05)	
Completion(05)	
Neatness(05)	
Prompt timing(05)	
Total(25)	

Result:

The given simple SQLComplex-Queries are executed successfully.

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