PLSQL TASK

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Task

1. Display all employees whose emp id is odd

```
select *  from employees where  mod(employee_id, 2)!=0;
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
101	Neena	Kochhar	NKOCHHAR	515.123.4568	9/21/2005	AD_VP	17000		100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1/3/2006	IT_PROG	9000		102	60
105	David	David Austin	yahia.momtaz@gmail.com	590.423.4569	6/25/2005	IT_PROG	4800		103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	2/7/2007	IT_PROG	4200		103	60
109	Daniel	Faviet	DFAVIET	515.124.4169	8/16/2002	FI_ACCOUNT	9000		108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	9/30/2005	FI_ACCOUNT	7700		108	100
113	Luis	Popp	LPOPP	515.124.4567	12/7/2007	FI_ACCOUNT	6900		108	100

2. Write a query that print only now time in 24 Hours

```
select  to_char(sysdate, 'hh24:mi:ss')

from dual;
```

TO_CHAR(SYSDATE,'HH24:MI:SS')
10:36:06

3. Write a Query that get number of years, months between a constant date ex : 24-

2-2022 and employees hire date

```
32  select employee_id, last_name, hire_date,
33  trunc( months_between(to_date('02/24/2022','MM/DD/YYYY'), hire_date) / 12 )as years,
34  trunc(mod( months_between(to_date('02/24/2022','MM/DD/YYYY'), hire_date) , 12 ))
35  as remaining_months
36  from employees;
```

EMPLOYEE_ID	LAST_NAME	HIRE_DATE	YEARS	REMAINING_MONTHS
100	King	6/17/2003	18	8
101	Kochhar	9/21/2005	16	5
102	De Haan	1/13/2001	21	1
103	Hunold	1/3/2006	16	1
104	Ernst	5/21/2007	14	9
105	David Austin	6/25/2005	16	7
106	Pataballa	2/5/2006	16	0
107	Lorentz	2/7/2007	15	0
108	Greenberg	8/17/2002	19	6
109	Faviet	8/16/2002	19	6
110	Chen	9/28/2005	16	4

4. Write a query that displays the grade of all employees based on the value of the column JOB ID, as per the table shown below:

JOB_ID GRADE

AD_ASST A

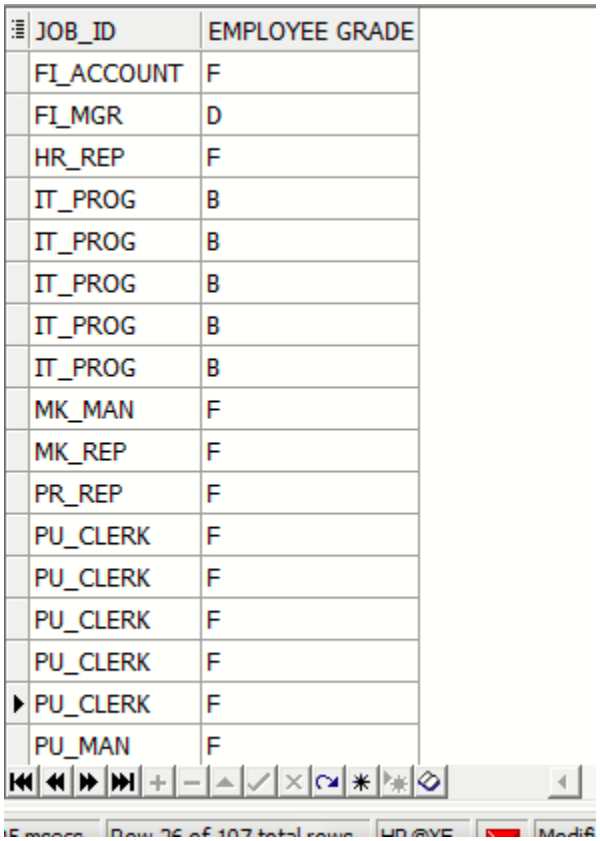
IT_PROG B

SA_REP C

FI_MGR D

None of above F

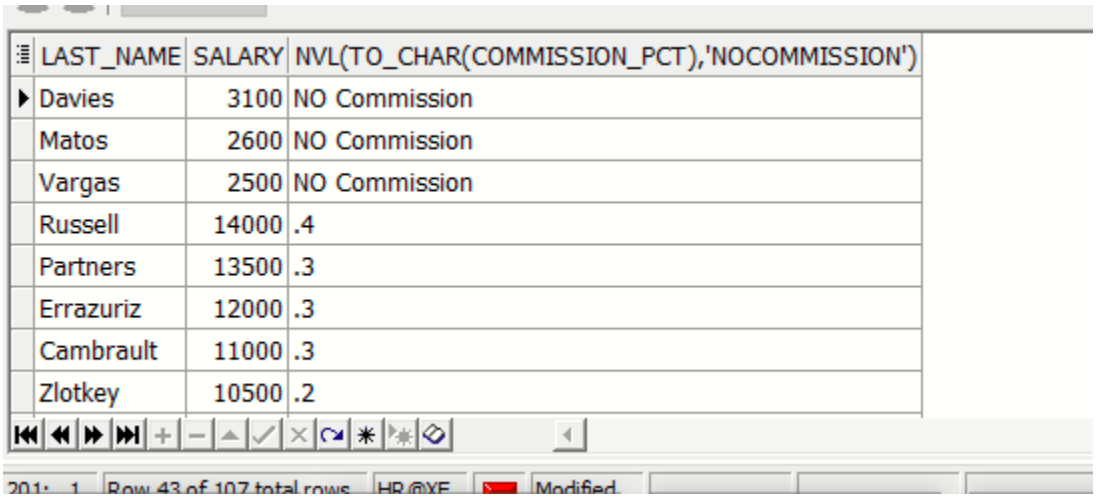
```
SELECT job_id,
CASE job_id
   WHEN 'IT_PROG' THEN 'B'
   WHEN  'SA_REP' THEN 'C'
   when 'AD_ASST' then 'A'
    when 'FI_MGR' then 'D'
   ELSE 'F'
END AS "EMPLOYEE GRADE"
FROM employees;
```



JOB_ID	EMPLOYEE GRADE
FI_ACCOUNT	F
FI_MGR	D
HR_REP	F
IT_PROG	B
IT_PROG	B
IT_PROG	B
IT_PROG	B
IT_PROG	B
MK_MAN	F
MK_REP	F
PR_REP	F
PU_CLERK	F
PU_CLERK	F
PU_CLERK	F
PU_CLERK	F
PU_CLERK	F
PU_MAN	F

5. Display the employees names and commissions for all employees, if no commission, displays (no commission). Hint : use to_char function

```
select  LAST_NAME , salary ,nvl(to_char(COMMISSION_PCT),'NO Commission') from employees;
```

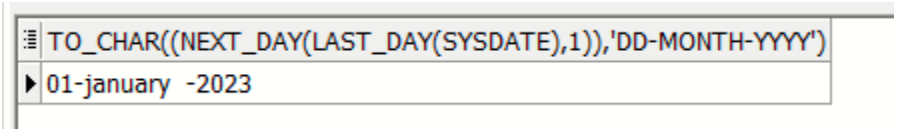


LAST_NAME	SALARY	NVL(TO_CHAR(COMMISSION_PCT),'NOCOMMISSION')
Davies	3100	NO Commission
Matos	2600	NO Commission
Vargas	2500	NO Commission
Russell	14000	.4
Partners	13500	.3
Errazuriz	12000	.3
Cambrault	11000	.3
Zlotkey	10500	.2

6. Write a Query that get the date of the First Sun day in the next month

Print it in format like 14-december-2020

```
select to_char((next_day(last_day(sysdate),1)),'DD-month-YYYY') from dual;
```

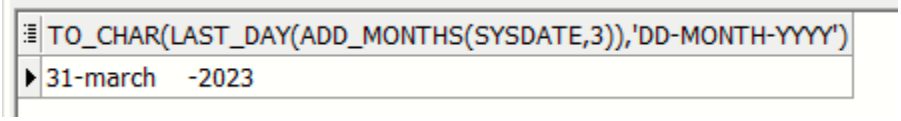


TO_CHAR((NEXT_DAY(LAST_DAY(SYSDATE),1)),'DD-MONTH-YYYY')
01-january -2023

7. Write a Query that get the last day date after 3 months from today

Print it in format like 14-december-2020

```
select to_char(last_day(add_months(sysdate,3)),'DD-month-YYYY') from dual;
```



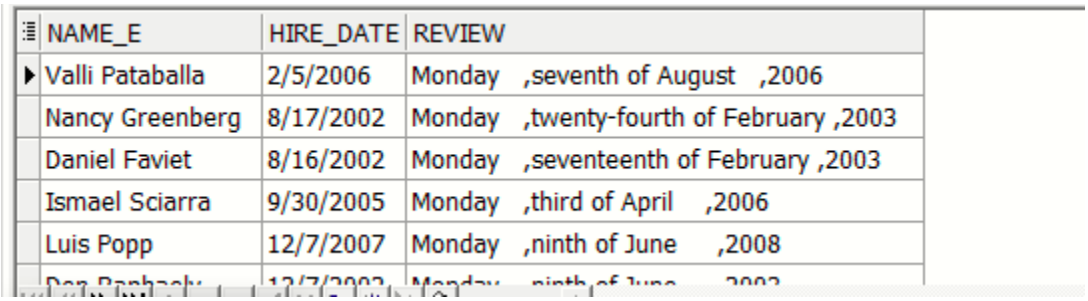
TO_CHAR(LAST_DAY(ADD_MONTHS(SYSDATE,3)),'DD-MONTH-YYYY')
31-march -2023

8. Display the employee's name, hire date and salary review date, which is the first

Monday after six months of service. Label the column Review. Format the dates

to appear in the format similar to "Sunday, the Seventh of September, 1981 ".

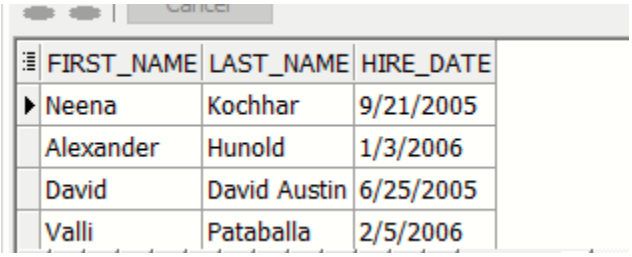
```
select FIRST_NAME||' '||LAST_NAME as name_e ,HIRE_DATE
,trim(to_char(next_day(add_months(HIRE_DATE,6),2),'Day,ddspth "of" Month,yyyy'))as review
from employees;
```



NAME_E	HIRE_DATE	REVIEW
Valli Pataballa	2/5/2006	Monday ,seventh of August ,2006
Nancy Greenberg	8/17/2002	Monday ,twenty-fourth of February ,2003
Daniel Faviet	8/16/2002	Monday ,seventeenth of February ,2003
Ismael Sciarra	9/30/2005	Monday ,third of April ,2006
Luis Popp	12/7/2007	Monday ,ninth of June ,2008

9. Write a query to show employees hired only in 2005 and 2006

```
select first_name, last_name, hire_date FROM employees  where extract(year from hire_date)
in(2005,2006);
```

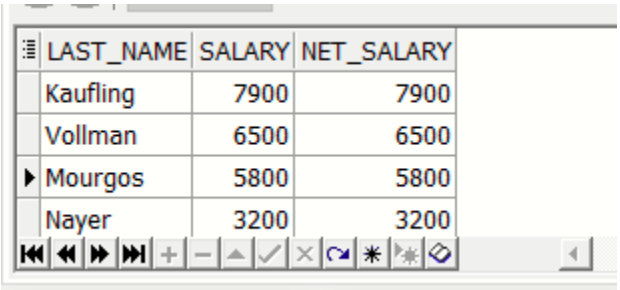


FIRST_NAME	LAST_NAME	HIRE_DATE
Neena	Kochhar	9/21/2005
Alexander	Hunold	1/3/2006
David	David Austin	6/25/2005
Valli	Pataballa	2/5/2006

10. Write a query to print the employees net salary : net_salary = salary + comm *

salary / 100 .. and solve any null values.

```
select  LAST_NAME , salary ,salary +(nvl(COMMISSION_PCT,0)*(salary/100) ) as net_salary from
employees;
```



LAST_NAME	SALARY	NET_SALARY
Kaufling	7900	7900
Vollman	6500	6500
Mourgos	5800	5800
Nayer	3200	3200

11. Create a new column in table employees : named : employee_notes

varchar2(250)

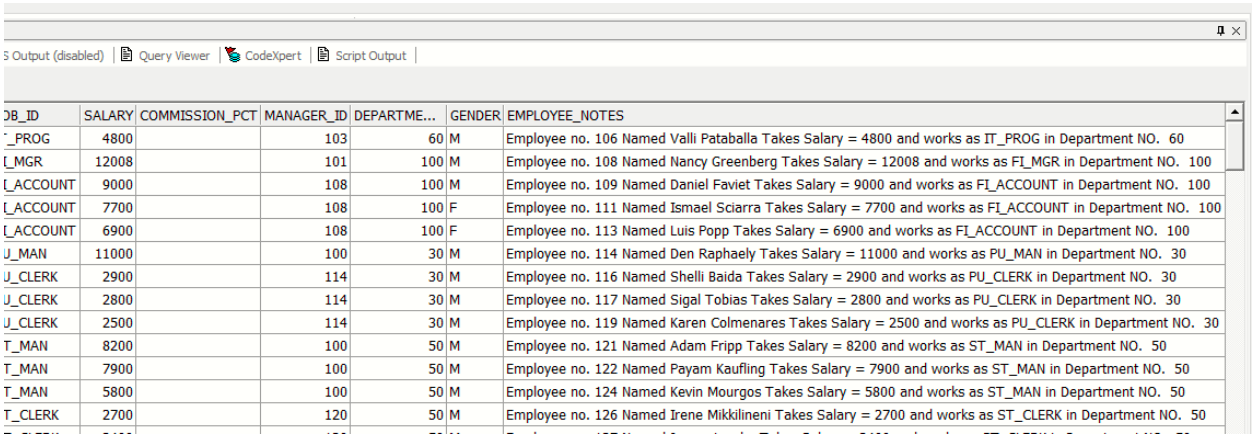
- Update for each employee with for example /

Employee no. 101 named Neena Kochaar takes salary = 17000 and works as

AD_VP in dept no. 90

```
update  employees

set employee_notes = 'Employee no. '||employee_id  ||' Named '||FIRST_NAME||' '|| LAST_NAME||'
Takes Salary = '||salary||' and works as '||job_id||' in Department NO.  '||DEPARTMENT_ID;
```



Output (disabled) | Query Viewer | CodeXpert | Script Output

JB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTME...	GENDER	EMPLOYEE_NOTES
_PROG	4800		103	60	M	Employee no. 106 Named Valli Pataballa Takes Salary = 4800 and works as IT_PROG in Department NO. 60
_MGR	12008		101	100	M	Employee no. 108 Named Nancy Greenberg Takes Salary = 12008 and works as FI_MGR in Department NO. 100
_ACCOUNT	9000		108	100	M	Employee no. 109 Named Daniel Faviet Takes Salary = 9000 and works as FI_ACCOUNT in Department NO. 100
_ACCOUNT	7700		108	100	F	Employee no. 111 Named Ismael Sciarra Takes Salary = 7700 and works as FI_ACCOUNT in Department NO. 100
_ACCOUNT	6900		108	100	F	Employee no. 113 Named Luis Popp Takes Salary = 6900 and works as FI_ACCOUNT in Department NO. 100
U_MAN	11000		100	30	M	Employee no. 114 Named Den Raphaely Takes Salary = 11000 and works as PU_MAN in Department NO. 30
U_CLERK	2900		114	30	M	Employee no. 116 Named Shelli Baida Takes Salary = 2900 and works as PU_CLERK in Department NO. 30
U_CLERK	2800		114	30	M	Employee no. 117 Named Sigal Tobias Takes Salary = 2800 and works as PU_CLERK in Department NO. 30
U_CLERK	2500		114	30	M	Employee no. 119 Named Karen Colmenares Takes Salary = 2500 and works as PU_CLERK in Department NO. 30
T_MAN	8200		100	50	M	Employee no. 121 Named Adam Fripp Takes Salary = 8200 and works as ST_MAN in Department NO. 50
T_MAN	7900		100	50	M	Employee no. 122 Named Payam Kaufling Takes Salary = 7900 and works as ST_MAN in Department NO. 50
T_MAN	5800		100	50	M	Employee no. 124 Named Kevin Mourgos Takes Salary = 5800 and works as ST_MAN in Department NO. 50
T_CLERK	2700		120	50	M	Employee no. 126 Named Irene Mikkilineni Takes Salary = 2700 and works as ST_CLERK in Department NO. 50