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# DATABASE MANAGEMENT SYSTEM

## ASSIGNMENT -1

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SLOT:L5+L6

Field	Type	Null	Key	Default	Extra
employee_id	int	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(25)	NO		NULL	
email	varchar(50)	NO		NULL	
phone_number	varchar(20)	YES		NULL	
hire_date	date	NO		NULL	
job_id	varchar(10)	NO		NULL	
salary	decimal(10,2)	YES		NULL	
commission_pct	decimal(4,2)	YES		NULL	
manager_id	int	YES		NULL	
department_id	int	YES		NULL	

1. Display the last name in lower case and first name in upper case, for all employees whose employee number is in the range between 10 and 100.

**select concat(upper(first\_name),' ',lower(last\_name))as fullname from employee  
where employee between 10 and 100;**

2. Display the details employees whose last name is KING or king.

**select \* from employee where last\_name in ('KING','king');**

3. Generating new email address
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a. For each employee, display the first name concatenated with the last name

**select concat (first\_name,last\_name) as concatenated\_name from employee;**

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b. For each employee, display the full name (firstname +lastname) and email address. The email address will be composed from the first two letters of first name, concatenated with last name, concatenated with @vitap.ac.in

**select concat( left(first\_name,2),last\_name,'@vitap.ac.in') as emailid from employee;**

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4. Display the employee\_id, email, hire\_date for all employees where last name's length is greater than 5 characters.

**select employee\_id,email,hire\_date from employee where length(last\_name)>5;**

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5. For each employee, display the first name, last name, phone number and a new phone number using the REPLACE function. in the hire\_date replace all occurrences of 03 with 05.

**select first\_name,last\_name,phone\_number,replace(phone\_number,'999','000')as new\_number,replace(hire\_date,'03','05') as modified\_hire\_date from employee;**

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6. For each employee, display :

a. salary after a raise of 10%

**select salary+salary\*0.01 from employee;**

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b. salary after a raise of 15%, expressed as a whole number.

**select round(salary\*1.15) from employee;**

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c. salary after a raise of 20%, round down to the nearest whole number.

```
select round(salary*1.20) from employee;
```

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7. For each employee, display the first name, last name, phone number, hire date, hire date minus 7 days, hire date plus one month, and the day difference between current date and hire date.

```
select first_name,last_name,phone_number,hire_date,hire_date - interval 7 day as  
hiredate_minus,date_add(hire_date,interval 1 month) as hiredate_add,datediff(curdate()  
,hire_date) as days_since_hired from employee
```

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8. For each employee, display the first name, last name, hire date, number of months he works in the company, and number of years he works in the company.

```
select first_name,last_name,hire_date,timestampdiff(month,hire_date,curdate()) a  
s months_worked,timestampdiff(year,hire_date,curdate())as years_worked from  
employee;
```

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9. For each employee, display the first name, and hire date plus one year

```
select first_name,date_add(hire_date,interval 1 year)as added_year from employee;
```

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10. For each employee, display the first name, hire date, hire date rounded up to the nearest year, and hire date rounded up to the nearest month.

```
SELECT first_name, hire_date,ADD_MONTHS(hire_date, 12) AS  
hire_date_plus_one_year,DATE_FORMAT DATE_ADD(hire_date, INTERVAL  
CEIL(DATEDIFF(CURDATE(), hire_date) / 365) YEAR), '%Y-%m-%d') AS  
hire_date_rounded_up_year,DATE_FORMAT DATE_ADD(hire_date, INTERVAL  
CEIL(DATEDIFF(CURDATE(), hire_date) / 30) MONTH), '%Y-%m-%d') AS  
hire_date_rounded_up_month from employee;
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11. Commission Percentage

1. For each employee, phone number, manager id, department id, salary and commission percentage. If an employee doesn't earn a commission, display 0

instead of NULL.

**select**

**first\_name,last\_name,phone\_number,manager\_id,department\_id,salary,NVL(TO\_CHAR(commission\_pct),0)as commission from employee;**

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2. For each employee, display the first name, salary and commission percentage.

If an employee doesn't earn a commission, display "No Commission" instead of NULL.

**select first\_name,salary,NVL(to\_char(commission\_pct),'No commission') as commission from employee;**