EXPERIMENT-8

JULIA GEORGE

RMCA-B

Roll No:04

1. create table department (department_id int(4), department_name varchar(30), manager_id int(6), location_id int(4));

- insert into department (department_id , department_name, manager_id, location_id) values (10, 'administration', 200, 1700);
- insert into department (department_id , department_name, manager_id, location_id) values (20, 'marketing', 201, 1800);
- insert into department (department_id , department_name, manager_id, location_id) values (50, 'shipping', 124, 1500);
- insert into department (department_id , department_name, manager_id, location_id) values (60, 'it', 103, 1400);
- insert into department (department_id , department_name, manager_id, location_id) values (80, 'sales', 149, 2500);
- insert into department (department_id , department_name, manager_id, location_id) values (90, 'executive', 100, 1700);
- insert into department (department_id , department_name, manager_id, location_id) values (110, 'accountig', 205, 1700);
- insert into department (department_id , department_name, manager_id, location_id) values (190, 'contacting', 1700);

select * from department;

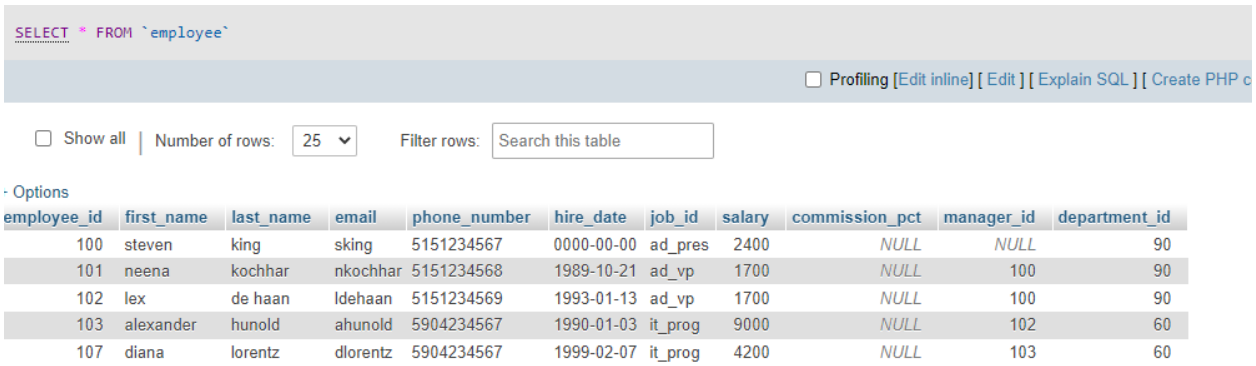
+ Options

department_id	department_name	manager_id	location_id
10	administration	200	1700
20	marketing	201	1800
50	shipping	124	1500
60	it	103	1400
80	sales	149	2500
90	executive	100	1700
110	accountig	205	1700

2. CREATE table employee(empid int PRIMARY KEY ,empname varchar (100),department varchar(50),contactno bigint,emailid varchar(100),empheadid int)

- INSERT INTO `employee` (`employee_id`, `first_name`, `last_name`, `email`, `phone_number`, `hire_date`, `job_id`, `salary`, `commission_pct`, `manager_id`, `department_id`) VALUES ('100', 'steven', 'king', 'sking', '5151234567', '17-jun-87', 'ad_pres', '2400', NULL, NULL, '90');
- INSERT INTO `employee` (`employee_id`, `first_name`, `last_name`, `email`, `phone_number`, `hire_date`, `job_id`, `salary`, `commission_pct`, `manager_id`, `department_id`) VALUES ('101', 'neena', 'kochhar', 'nkochhar', '5151234568', '1989-10-21', 'ad_vp', '1700', NULL, 100, '90');
- INSERT INTO `employee` (`employee_id`, `first_name`, `last_name`, `email`, `phone_number`, `hire_date`, `job_id`, `salary`, `commission_pct`, `manager_id`, `department_id`) VALUES ('102', 'lex', 'de haan', 'ldehaan', '5151234569', '1993-01-13', 'ad_vp', '1700', NULL, 100, '90');
- INSERT INTO `employee` (`employee_id`, `first_name`, `last_name`, `email`, `phone_number`, `hire_date`, `job_id`, `salary`, `commission_pct`, `manager_id`, `department_id`) VALUES ('103', 'alexander', 'hunold', 'ahunold', '5904234567', '1990-01-03', 'it_prog', '9000', NULL, 102, '60');
- INSERT INTO `employee` (`employee_id`, `first_name`, `last_name`, `email`, `phone_number`, `hire_date`, `job_id`, `salary`, `commission_pct`, `manager_id`, `department_id`) VALUES ('107', 'diana', 'lorentz', 'dlorentz', '5904234567', '1999-02-07', 'it_prog', '4200', NULL, 103, '60');

Select * form employee;



employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	steven	king	sking	5151234567	0000-00-00	ad_pres	2400	NULL	NULL	90
101	neena	kochhar	nkochhar	5151234568	1989-10-21	ad_vp	1700	NULL	100	90
102	lex	de haan	ldehaan	5151234569	1993-01-13	ad_vp	1700	NULL	100	90
103	alexander	hunold	ahunold	5904234567	1990-01-03	it_prog	9000	NULL	102	60
107	diana	lorentz	dlorentz	5904234567	1999-02-07	it_prog	4200	NULL	103	60

3. CREATE TABLE country (country_id varchar(2) NOT NULL ,countryname varchar(40) DEFAULT NULL,region_id decimal(10,0) NOT NULL,PRIMARY KEY (country_id));

- insert into country values('CA','Canada',2);
- insert into country values('DE','Germany',1);
- insert into country values('UK','United Kingdom',1);

- select * from country

```
SELECT * FROM `country`
```

Show all | Number of rows: 25 Filter rows:

+ Options

country_id	countryname	region_id
ca	canada	2
DE	germany	1
uk	unated kingdom	1

4. create table jobs (JOB_ID varchar(10) NOT NULL, JOB_TITLE varchar(35) NOT NULL, MIN_SALARY decimal(6), MAX_SALARY decimal(6),PRIMARY KEY (JOB_ID));

- insert into job values('AD_VP','Adminstartion vice presedant',15000,30000);
- insert into job values('AD_PRES','presedant',20000,40000);
- insert into job values('AD_ASST','Adminstartion assistant',3000,6000);
- insert into job values('AC_MGR','accounting manager',20000,40000);
- insert into job values('AC_ACCOUNT','public account',15000,30000);

Select * from jobs;

```
SELECT * FROM `jobs`
```

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Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

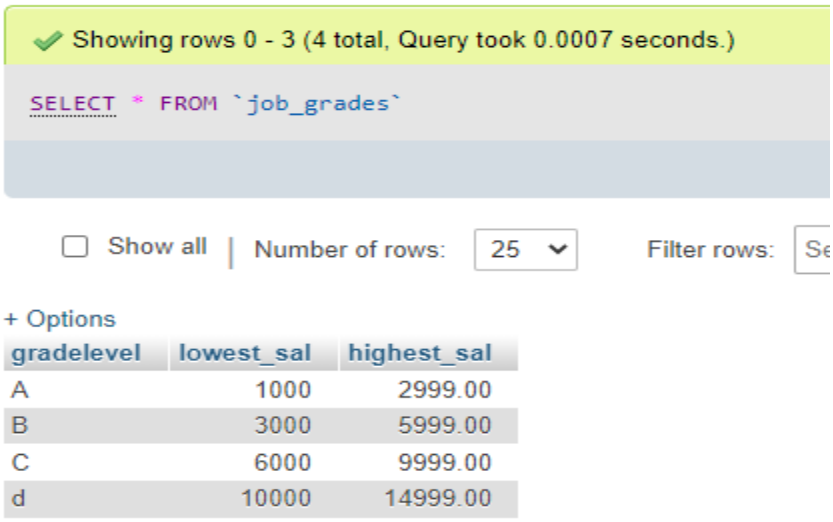
+ Options

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
Edit Copy Delete	AC_ACCOUNT	public accountant	4200	9000
Edit Copy Delete	AC_MGR	accounting manager	8200	1600
Edit Copy Delete	AD_ASST	administration assistant	3000	6000
Edit Copy Delete	AD_PRES	presedant	20000	40000
Edit Copy Delete	AD_VP	Adminstartion vice presedant	15000	30000

5. CREATE TABLE job_grades (gradelevel varchar(3),lowest_sal decimal,highest_sal decimal(8,2));

- insert into job_gradesvalues('A',1000,2999);
- insert into job_grades values('B',3000,5999);
- insert into job_gradesvalues('c',6000,9999);
- insert into job_grades values('d',10000,14999);

select * from job_grades;

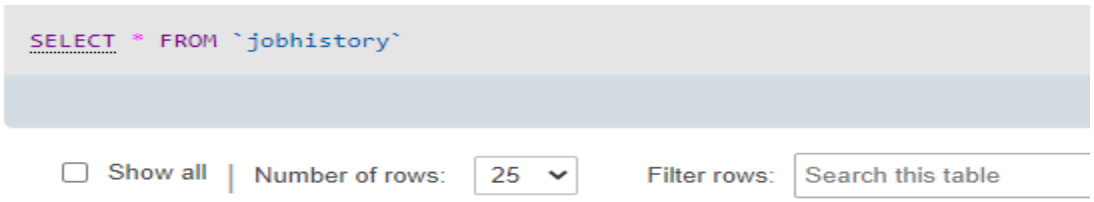


gradelevel	lowest_sal	highest_sal
A	1000	2999.00
B	3000	5999.00
C	6000	9999.00
d	10000	14999.00

6. CREATE TABLE job_history (EMPLOYEE_ID decimal(6,0) NOT NULL PRIMARY KEY, START_DATE date NOT NULL, END_DATE date NOT NULL, JOB_ID varchar(10) NOT NULL, DEPARTMENT_ID decimal(4,0) DEFAULT NULL, FOREIGN KEY (job_id) REFERENCES jobs(job_id));

- insert into jobhistory values(102,19930213,19980724,'IT_PROG',60);
- INSERT INTO jobhistory VALUES (101,19890921,19931027,"ac_account",110);
- INSERT INTO jobhistory VALUES (101,19931028,19970315,"ac_mgr",110);
- INSERT INTO jobhistory VALUES (201,19960217,19991219,"mk_rep",20);

Select * from jobhistory;

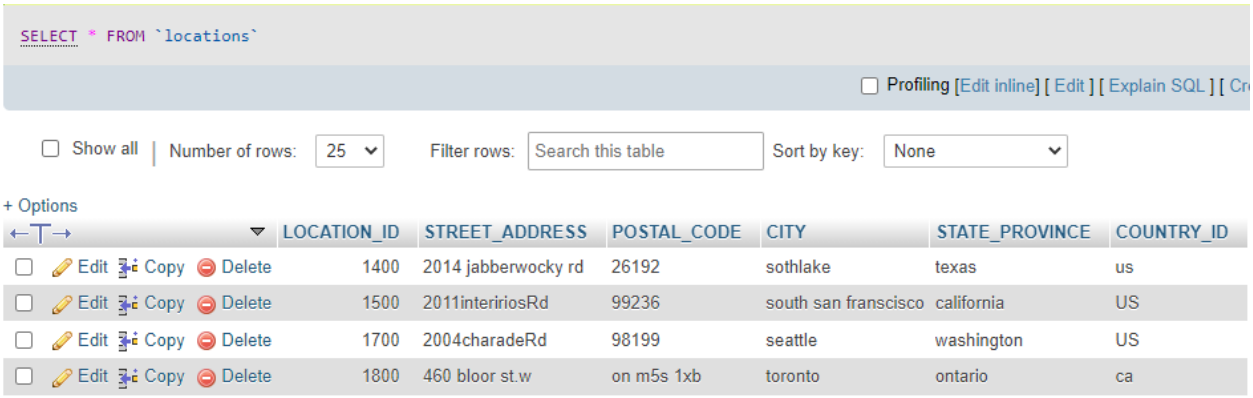


emp_id	start_date	end_date	job_id	department_id
102	1993-02-13	1998-07-24	IT_PROG	60
101	1989-09-21	1993-10-27	ac_account	110
101	1993-10-28	1997-03-15	ac_mgr	110
201	1996-02-17	1999-12-19	mk_rep	20

7. create table locations(LOCATION_ID decimal(4) NOT NULL, STREET_ADDRESS varchar(40), POSTAL_CODE varchar(12), CITY varchar(30), STATE_PROVINCE varchar(25) NOT NULL, COUNTRY_ID char(2), PRIMARY KEY (LOCATION_ID));

- insert into locations values(1700,'2004charadeRd',98199,'seattle','washington','US');
- insert into locations values(1500,'2011inteririosRd',99236,'south san franscisco','california','US');
- insert into locations values(1400,'2014jabberwocky rd',26192,'southlake','texas','US');
- insert into locations values(1800,'460 bloor st.w',on m5s 1xb,'toronto','ontario','ca');

Select * from locations;

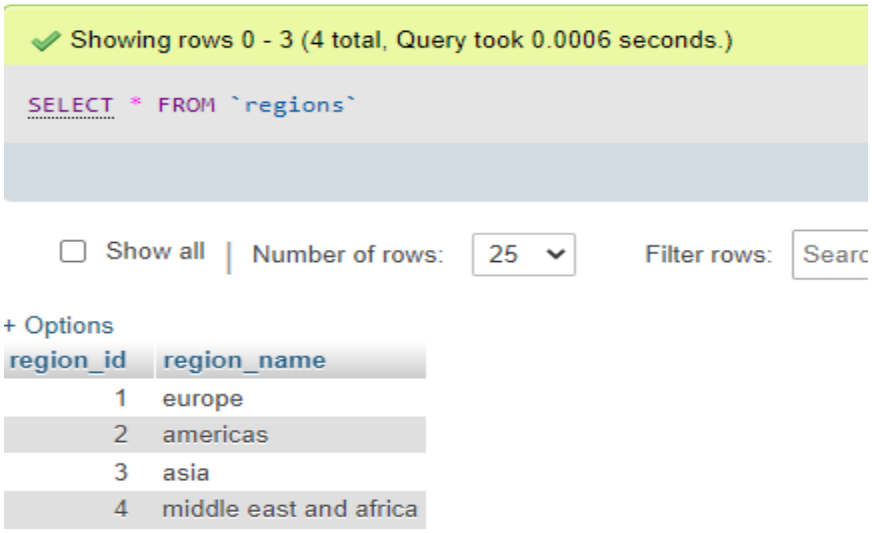


	LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	COUNTRY_ID
Edit Copy Delete	1400	2014 jabberwocky rd	26192	sothlake	texas	us
Edit Copy Delete	1500	2011inteririosRd	99236	south san franscisco	california	US
Edit Copy Delete	1700	2004charadeRd	98199	seattle	washington	US
Edit Copy Delete	1800	460 bloor st.w	on m5s 1xb	toronto	ontario	ca

8. CREATE TABLE regions (region_id DECIMAL,region_name VARCHAR(25));

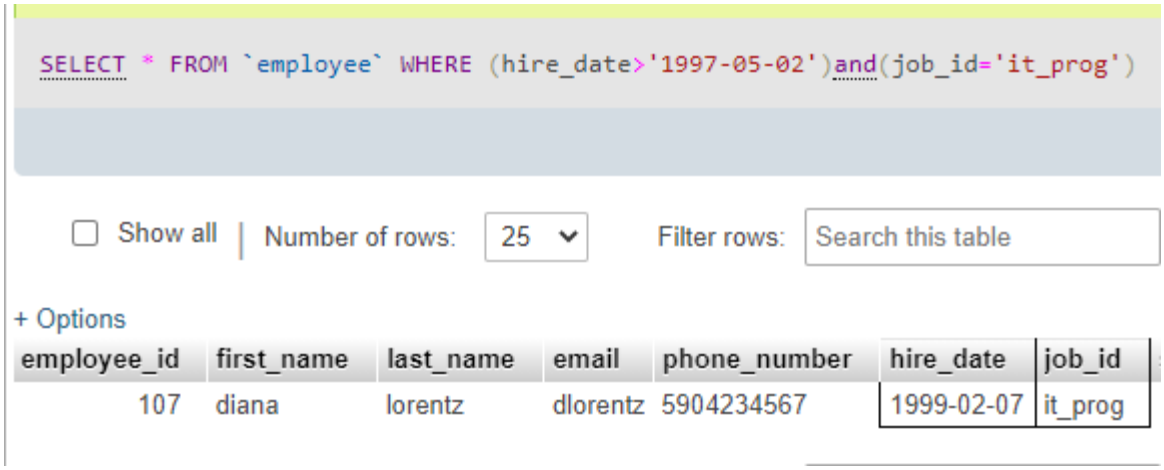
- insert into regions(region_id,region_name)values(1,'Europe');
- insert into regions(region_id,region_name)values(2,'amerians');
- insert into regions(region_id,region_name)values(3,'asia');
- insert into regions(region_id,region_name)values(4,'middle east and africa');

Select * from regions;



region_id	region_name
1	europe
2	americas
3	asia
4	middle east and africa

- SELECT * FROM `employee` WHERE (hire_date>'1997-05-02')and(job_id='it_prog');



employee_id	first_name	last_name	email	phone_number	hire_date	job_id
107	diana	lorentz	dlorentz	5904234567	1999-02-07	it_prog

❖ SELECT last_name, job_id, salary, commission_pct FROM employee WHERE commission_pct IS NULL ORDER BY salary DESC;

```
SELECT last_name, job_id, salary, commission_pct FROM employee WHERE commission_pct IS NULL ORDER BY salary DESC
```

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Show all | Number of rows: 25 Filter rows: Search this table

+ Options

last_name	job_id	salary	commission_pct
hunold	it_prog	9000	*NULL*
lorentz	it_prog	4200	*NULL*
king	ad_pres	2400	*NULL*
kochhar	ad_vp	1700	*NULL*
de haan	ad_vp	1700	*NULL*

❖ SELECT first_name,salary,commission_pct,round(salary*(10/100)) AS newsalary FROM employee WHERE commission_pct IS NULL;

Showing rows 0 - 4 (5 total, Query took 0.1246 seconds.)

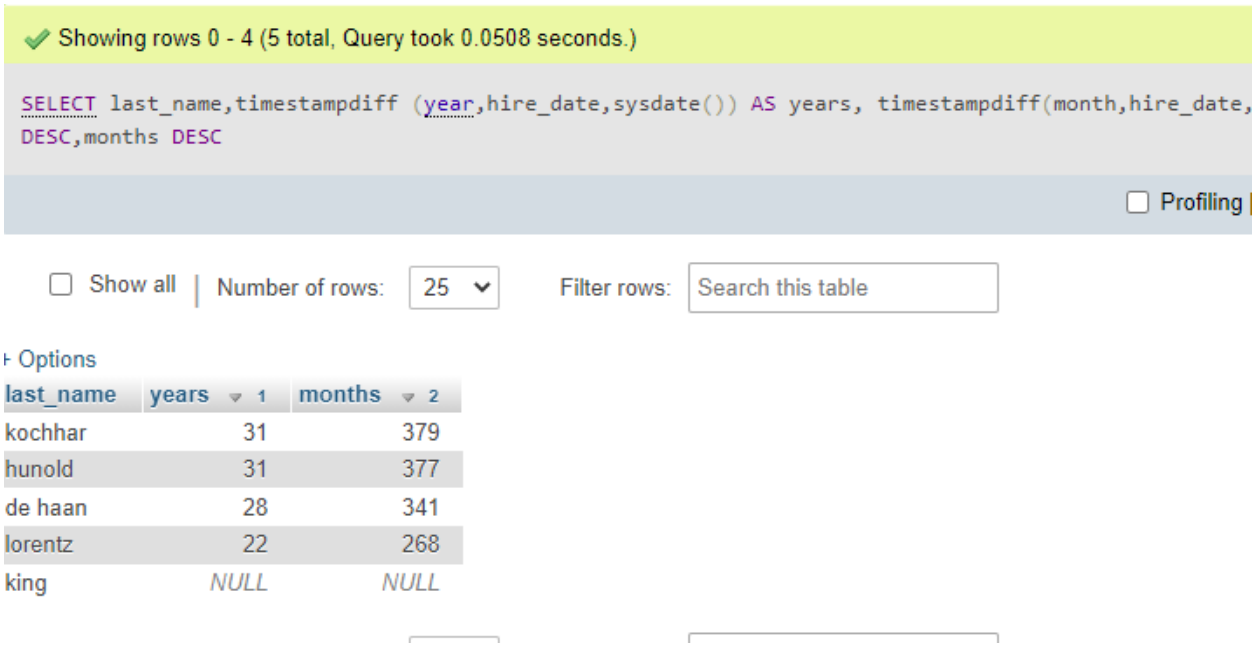
```
SELECT first_name,salary,commission_pct,round(salary*(10/100)) AS newsalary
```

Show all | Number of rows: 25 Filter rows: Search this table

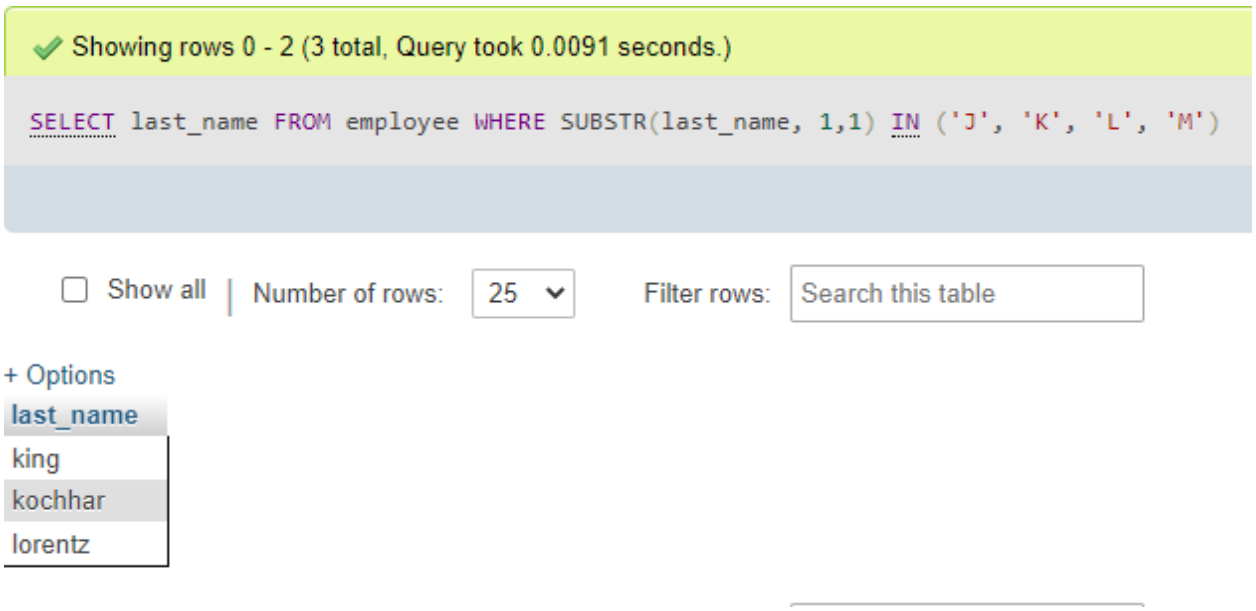
+ Options

first_name	salary	commission_pct	newsalary
steven	2400	*NULL*	240
neena	1700	*NULL*	170
lex	1700	*NULL*	170
alexander	9000	*NULL*	900
diana	4200	*NULL*	420

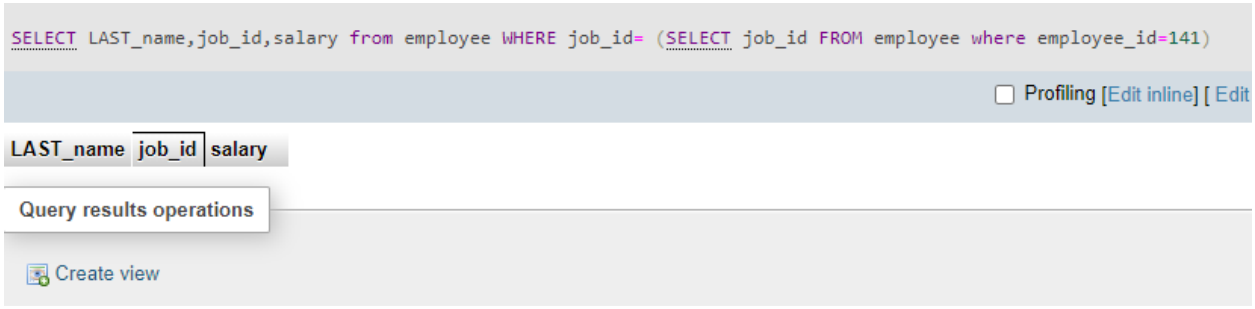
❖ SELECT last_name,timestampdiff (year,hire_date,sysdate()) AS years, timestampdiff(month,hire_date,sysdate()) AS months from employee ORDER BY years DESC,months DESC;



❖ SELECT last_name FROM employee WHERE SUBSTR(last_name, 1,1) IN ('J', 'K', 'L', 'M');



❖ SELECT LAST_name,job_id,salary from employee WHERE job_id= (SELECT job_id FROM employee where employee_id=141);



❖ SELECT LAST_name,job_id,salary from employee WHERE salary= (SELECT min(salary)FROM employee);