

# **ADBMS LAB WORK**

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**RMCA B-BATCH**

**Roll No : 28**

## EXPERIMENT: 8

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;

SELECT \* FROM `employee`

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP c](#)

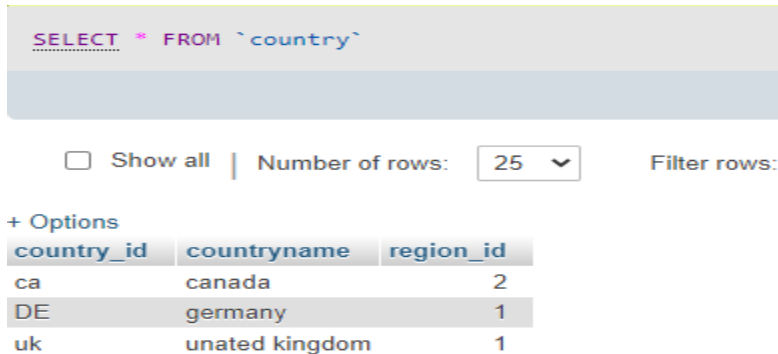
☐ Show all | Number of rows: 25  Filter rows:

Options

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



The screenshot shows a SQL query execution interface. At the top, the query 'SELECT \* FROM `country`' is entered. Below the query, there are controls for 'Show all', 'Number of rows' (set to 25), and 'Filter rows'. The results are displayed in a table with three columns: 'country\_id', 'countryname', and 'region\_id'. The data rows are: 'ca', 'canada', 2; 'DE', 'germany', 1; and 'uk', 'unated kingdom', 1.

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``

☐ Profiling [Edit]

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

+ Options

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
<input type="checkbox"/> Edit Copy Delete	AC_ACCOUNT	public accountant	4200	9000
<input type="checkbox"/> Edit Copy Delete	AC_MGR	accounting manager	8200	1600
<input type="checkbox"/> Edit Copy Delete	AD_ASST	administration assistant	3000	6000
<input type="checkbox"/> Edit Copy Delete	AD_PRES	presedant	20000	40000
<input type="checkbox"/> 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\_grades values('A',1000,2999);
- insert into job\_grades values('B',3000,5999);
- insert into job\_grades values('c',6000,9999);
- insert into job\_grades values('d',10000,14999);

select \* from job\_grades;

✓ Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

`SELECT * FROM `job_grades``

☐ Show all | Number of rows: 25 | Filter rows: Se

+ Options

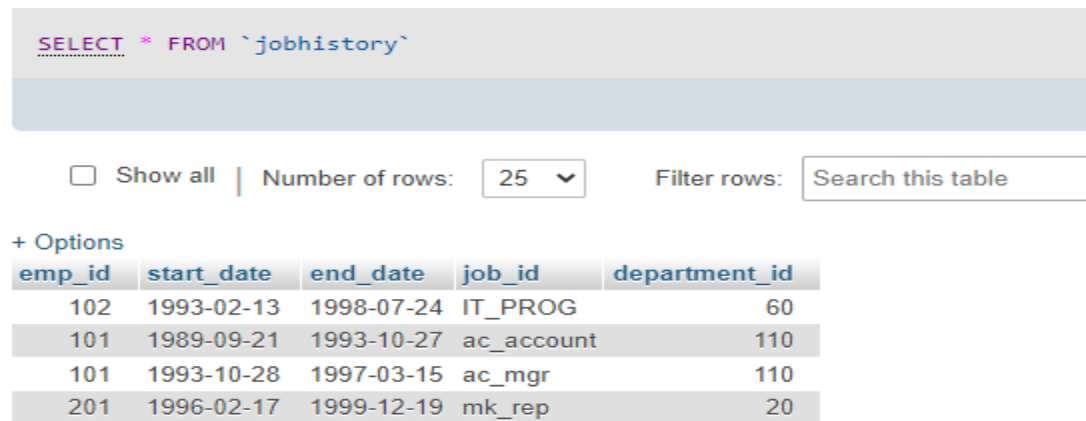
gradelevel	lowest_sal	highest_sal
A	1000	2999.00
B	3000	5999.00
C	6000	9999.00
d	10000	14999.00

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;



The screenshot shows a SQL query execution interface. At the top, the query `SELECT * FROM `jobhistory`` is entered. Below the query, there are controls for displaying the results: a checkbox for "Show all", a "Number of rows" dropdown set to 25, and a "Filter rows" search box. The results are displayed in a table with the following data:

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;

`SELECT * FROM `locations``

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Cr]

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

+ Options

	LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	COUNTRY_ID
<input type="checkbox"/> Edit Copy Delete	1400	2014 jabberwocky rd	26192	sothlake	texas	us
<input type="checkbox"/> Edit Copy Delete	1500	2011inteririosRd	99236	south san francisco	california	US
<input type="checkbox"/> Edit Copy Delete	1700	2004charadeRd	98199	seattle	washington	US
<input type="checkbox"/> 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;

✓ Showing rows 0 - 3 (4 total, Query took 0.0006 seconds.)

`SELECT * FROM `regions``

☐ Show all | Number of rows: 25 | Filter rows: Search

+ Options

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');`

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

☐ Show all | Number of rows: 25 ▼ Filter rows:

+ Options

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
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Export\]](#)

☐ Show all | Number of rows: 25 ▼ Filter rows:

+ 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:

+ 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;

✓ Showing rows 0 - 4 (5 total, Query took 0.0508 seconds.)

```
SELECT last_name,timestampdiff (year,hire_date,sysdate()) AS years, timestampdiff(month,hire_date,DESC,months DESC
```

☐ Profiling

☐ Show all | Number of rows: 25 ▼ Filter rows:

+ Options

last_name	years ▼ 1	months ▼ 2
kochhar	31	379
hunold	31	377
de haan	28	341
lorentz	22	268
king	NULL	NULL

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

✓ Showing rows 0 - 2 (3 total, Query took 0.0091 seconds.)

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

☐ Show all | Number of rows: 25 ▼ Filter rows:

+ Options

last\_name

king

kochhar

lorentz


- `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 job_id=(SELECT job_id FROM employee where employee_id=141)
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#)

LAST\_name job\_id salary

Query results operations

 Create view

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

✓ Showing rows 0 - 1 (2 total, Query took 0.0189 seconds.)

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

☐ Profile

☐ Show all | Number of rows: 25 ▼

Filter rows:

+ Options

LAST_name	job_id	salary
kochhar	ad_vp	1700
de haan	ad_vp	1700