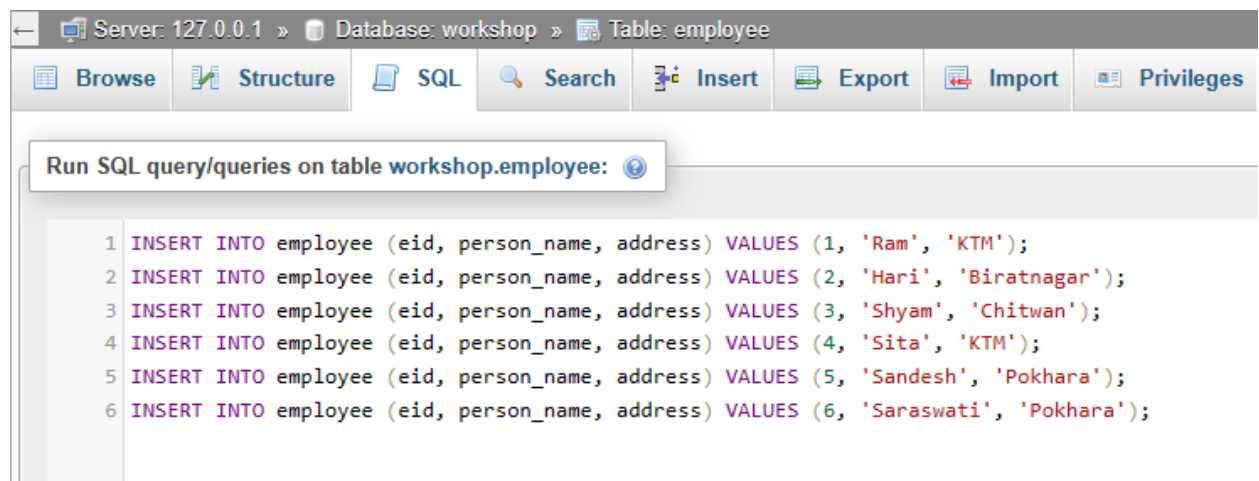


Instruction: Attempt all the questions

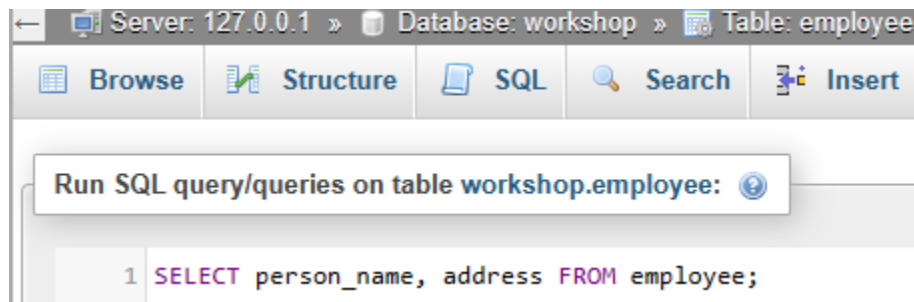
1. Write the appropriate queries to create the following table and answer the question below:

Create table_name as Employee

Eid	Name	Address
1	Ram	Ktm
2	Hari	Biratnagar
3	Shyam	Chitwan
4	Sita	Ktm
5	Sandesh	Pokhara
6	Saraswati	Pokhara



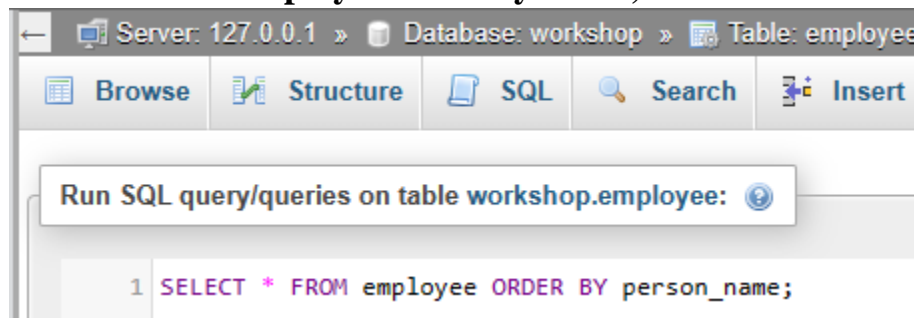
- a) Display all records except Eid.
Select name, address from Employee;



person_name	address
Ram	KTM
Hari	Biratnagar
Shyam	Chitwan
Sita	KTM
Sandesh	Pokhara
Saraswati	Pokhara

- b) Display all Name of the employee in alphabetical order.

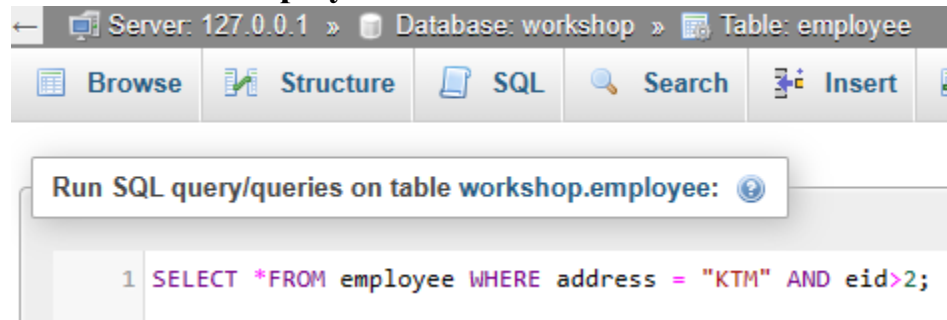
Select * from Employee order by name;



eid	person_name	address
2	Hari	Biratnagar
1	Ram	KTM
5	Sandesh	Pokhara
6	Saraswati	Pokhara
3	Shyam	Chitwan
4	Sita	KTM

- c) Write a query to display the name who lives in ktm and id>2.

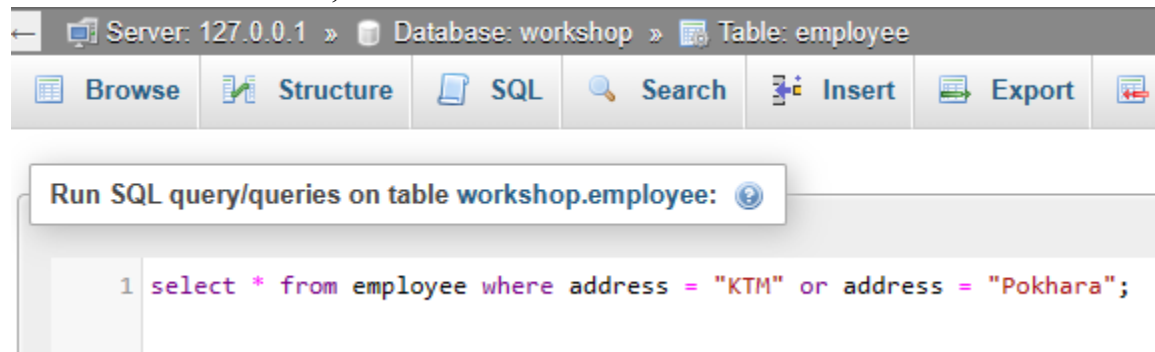
select * from Employee where address ="Kathmandu " AND id >2;



eid	person_name	address
4	Sita	KTM

- d) Write a query to display the name who lives either in ktm OR Pokhara.

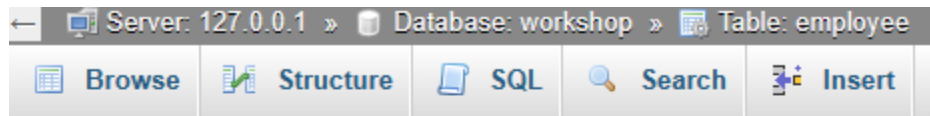
select * from Employee where address ="Kathmandu " or address="Pokhara";



eid	person_name	address
1	Ram	KTM
4	Sita	KTM
5	Sandesh	Pokhara
6	Saraswati	Pokhara

- e) Write a query to display the name whose Eid is between 2 and 5.

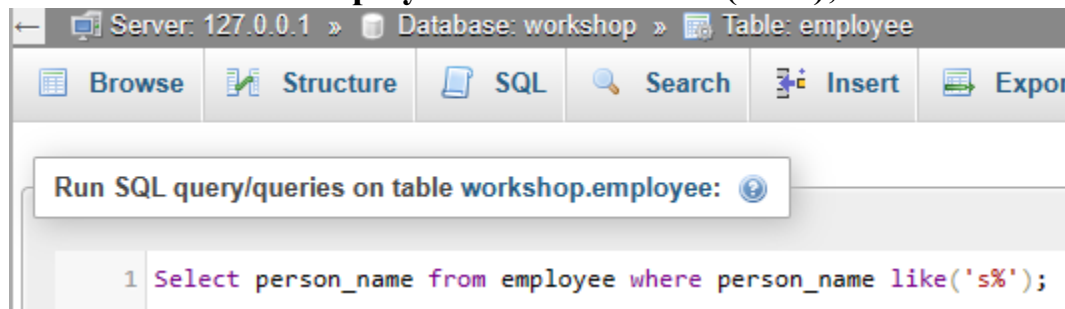
Select * from Employee where Eid > 2 and Eid <5;



eid	person_name	address
3	Shyam	Chitwan
4	Sita	KTM

- f) List the Name of Employee whose name start with letter 'S'.

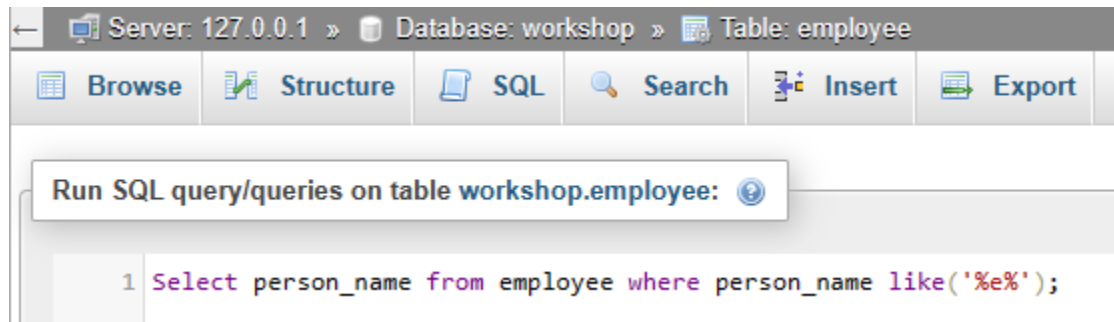
Select name from Employee where name like('s%');



person_name
Shyam
Sita
Sandesh
Saraswati

- g) List the Name of Employee whose name containing letter 'e'.

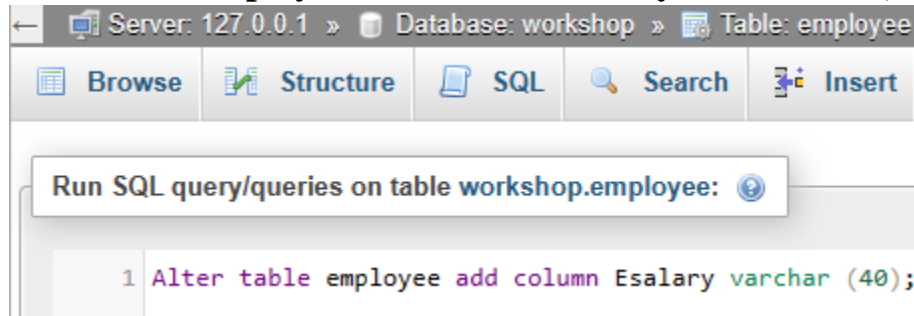
Select name from Employee where name like('%e%');



person_name
Sandesh

- h) Add a new column Esalary in the table Employee after Address field.

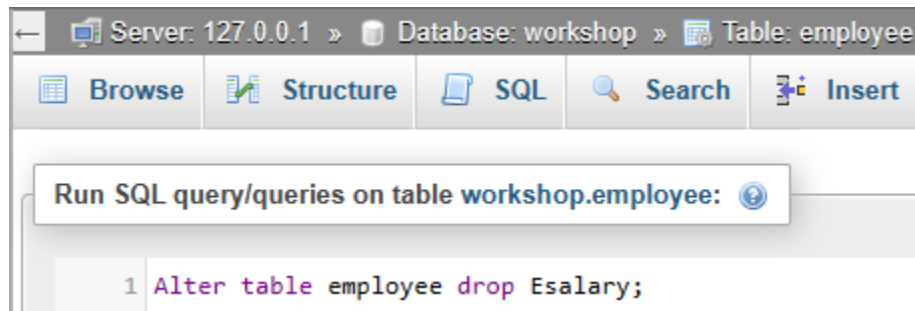
Alter table Employee add column Esalary varchar (40);



eid	person_name	address	Esalary
1	Ram	KTM	NULL
2	Hari	Biratnagar	NULL
3	Shyam	Chitwan	NULL
4	Sita	KTM	NULL
5	Sandesh	Pokhara	NULL
6	Saraswati	Pokhara	NULL

- i) After that, delete Esalary field.

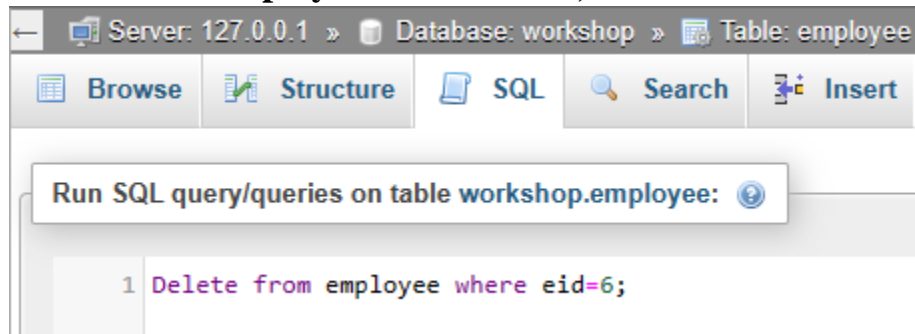
Alter table Employee drop Esalary;



eid	person_name	address
1	Ram	KTM
2	Hari	Biratnagar
3	Shyam	Chitwan
4	Sita	KTM
5	Sandesh	Pokhara
6	Saraswati	Pokhara

j) Delete all the records of Eid 6.

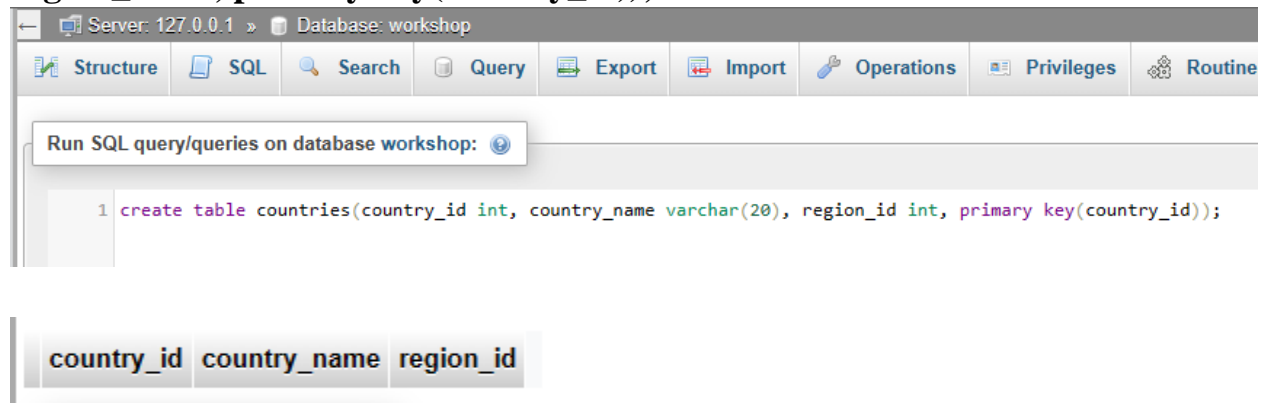
Delete form Employee where Eid=6;



eid	person_name	address
1	Ram	KTM
2	Hari	Biratnagar
3	Shyam	Chitwan
4	Sita	KTM
5	Sandesh	Pokhara

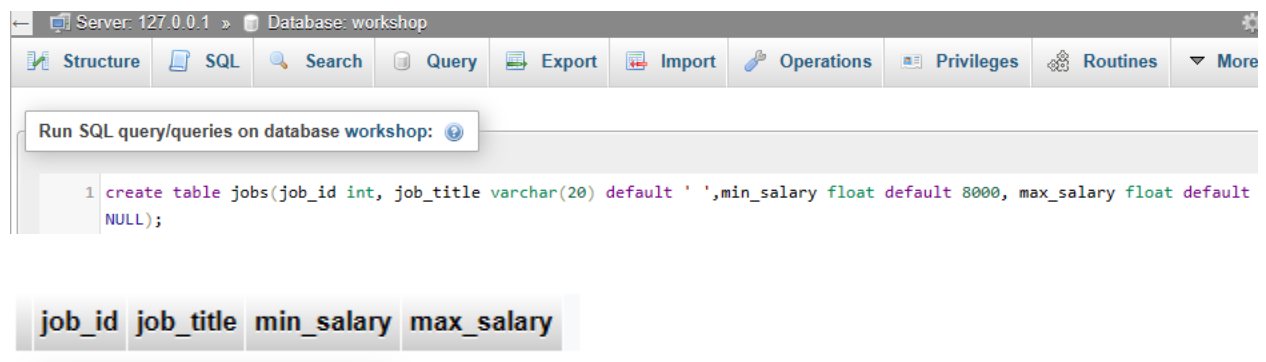
2. Write a SQL statement to create a table “**countries**” including columns country_id, country_name and region_id and make sure that the column country_id will be unique and store an auto incremented value.

create table countries(country_id int, country_name varchar(20), region_id int, primary key(country_id));



3. Write a SQL statement to create a table named **Jobs** including columns job_id, job_title, min_salary and max_salary, and make sure that, the default value for job_title is blank and min_salary is 8000 and max_salary is NULL will be entered automatically at the time of insertion if no value assigned for the specified columns.

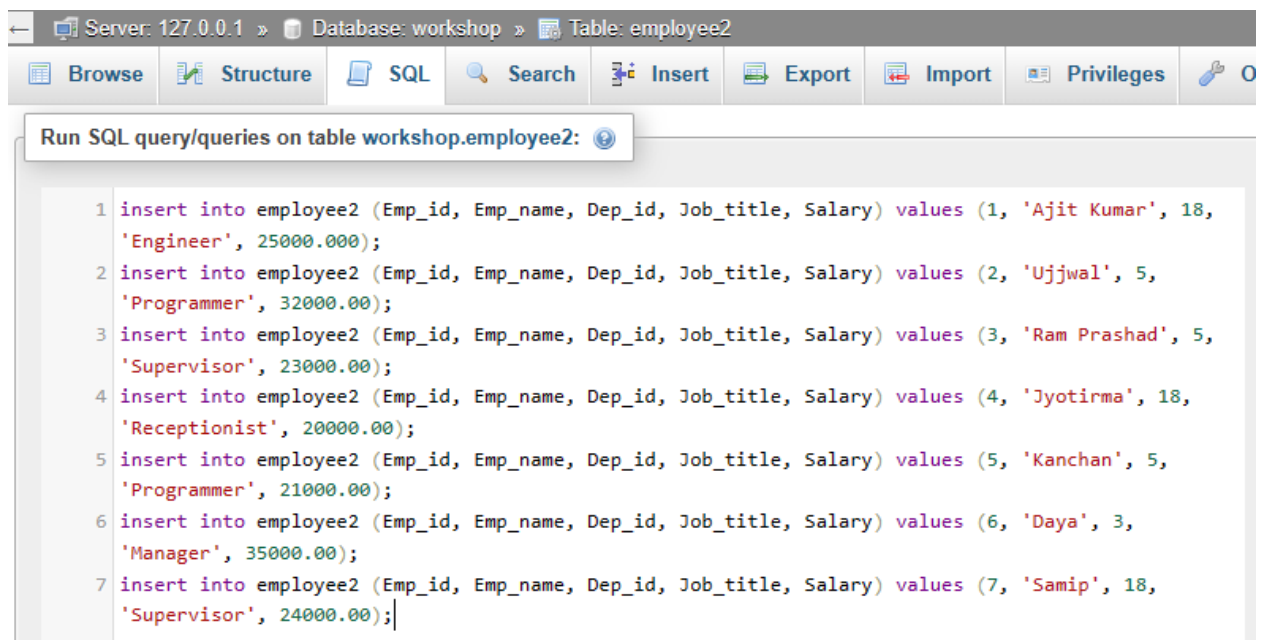
create table jobs(job_id int, job_title varchar(20) default ' ',min_salary float default 8000, max_salary float default NULL);



4. On the basis of following table answer the question below:

Emp_id	Name	Dep_id	Job_title	Salary
--------	------	--------	-----------	--------

1	Ajit Kumar	18	Engineer	25000.00
2	Ujjwal	5	Programmer	32000.00
3	Ram Prashad	5	Supervisor	23000.00
4	Jyotirma	18	Receptionist	20000.00
5	Kanchan	5	Programmer	21000.00
6	Daya	3	Manager	35000.00
7	Samip	18	Supervisor	24000.00



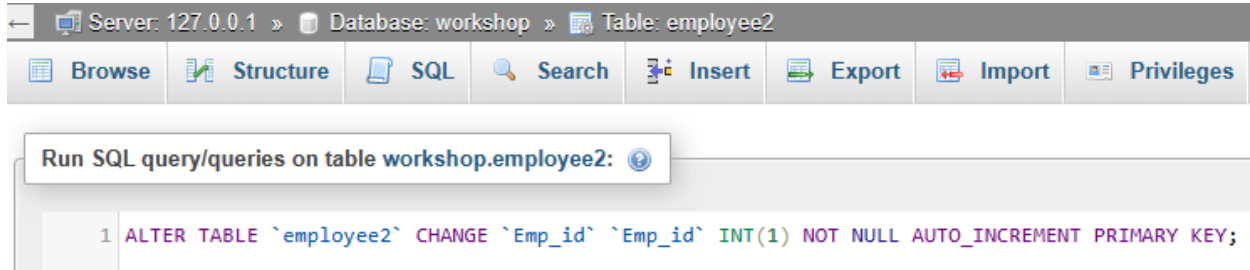
The screenshot shows a database management interface with a toolbar containing icons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and a help icon. Below the toolbar, a text box indicates the current context: "Run SQL query/queries on table workshop.employee2:". The main area displays a series of seven SQL INSERT statements, each adding a new employee record to the 'employee2' table. The statements are numbered 1 through 7 and include the employee ID, name, department ID, job title, and salary.

```
1 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (1, 'Ajit Kumar', 18, 'Engineer', 25000.000);
2 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (2, 'Ujjwal', 5, 'Programmer', 32000.00);
3 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (3, 'Ram Prashad', 5, 'Supervisor', 23000.00);
4 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (4, 'Jyotirma', 18, 'Receptionist', 20000.00);
5 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (5, 'Kanchan', 5, 'Programmer', 21000.00);
6 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (6, 'Daya', 3, 'Manager', 35000.00);
7 insert into employee2 (Emp_id, Emp_name, Dep_id, Job_title, Salary) values (7, 'Samip', 18, 'Supervisor', 24000.00);
```

Emp_id	Emp_name	Dep_id	Job_title	Salary
1	Ajit Kumar	18	Engineer	25000
2	Ujjwal	5	Programmer	32000
3	Ram Prashad	5	Supervisor	23000
4	Jyotirma	18	Receptionist	20000
5	Kanchan	5	Programmer	21000
6	Daya	3	Manager	35000
7	Samip	18	Supervisor	24000

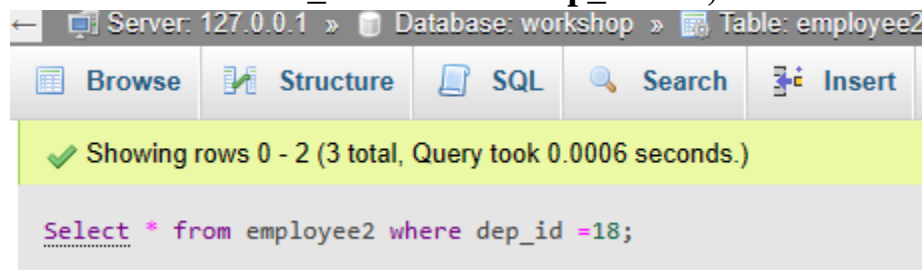
- a) Write SQL statement for Emp_id using not null auto_increment.

**ALTER TABLE `employee2` CHANGE `Emp_id` `Emp_id`
INT(1) NOT NULL AUTO_INCREMENT;**



- b) Display all the records from field Dep_id 18.

Select * from table_name where dep_id =18;

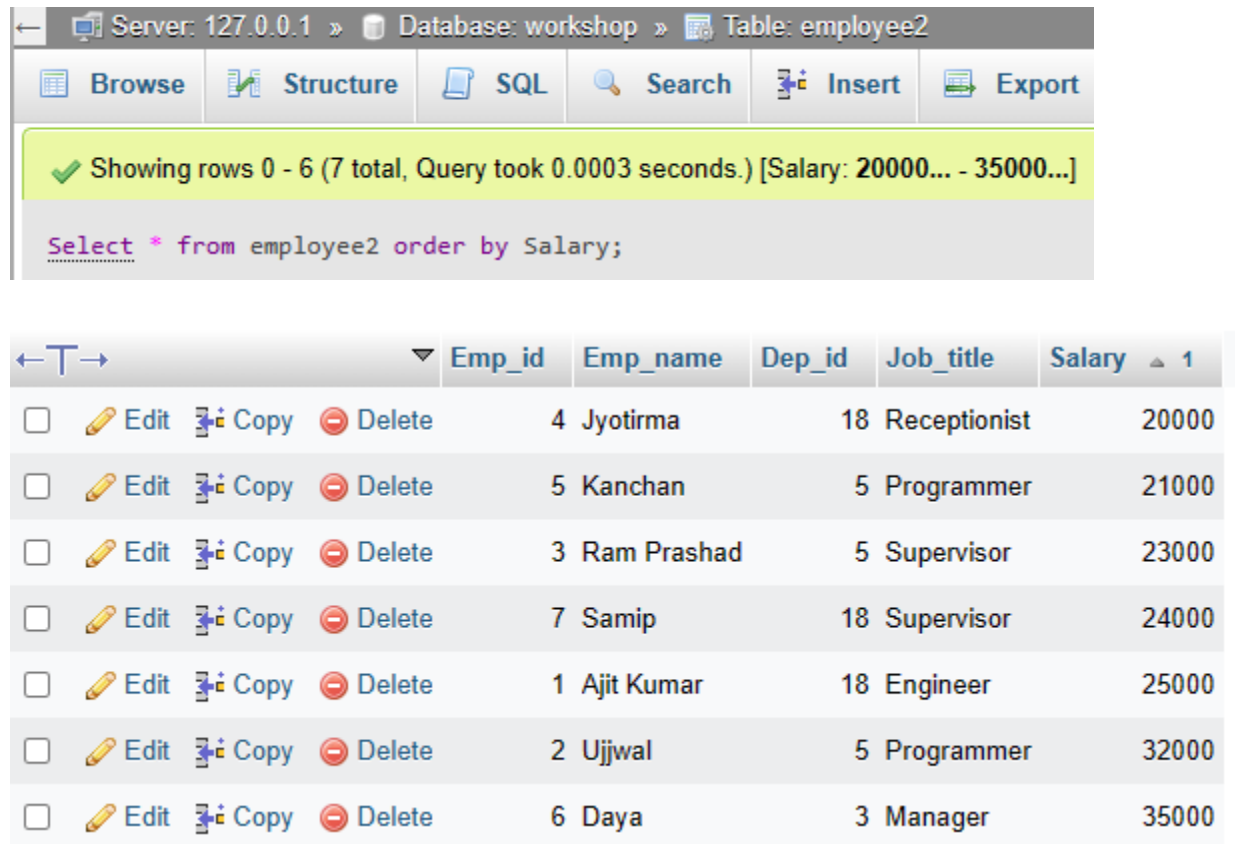


	Emp_id	Emp_name	Dep_id	Job_title	Salary
<input type="checkbox"/> Edit Copy Delete	1	Ajit Kumar	18	Engineer	25000
<input type="checkbox"/> Edit Copy Delete	4	Jyotirma	18	Receptionist	20000
<input type="checkbox"/> Edit Copy Delete	7	Samip	18	Supervisor	24000

↑ ☐ Check all With selected: Edit Copy Delete Export

- c) Display Emp_id, Name and Salary of all employee's in ascending order of Salary.

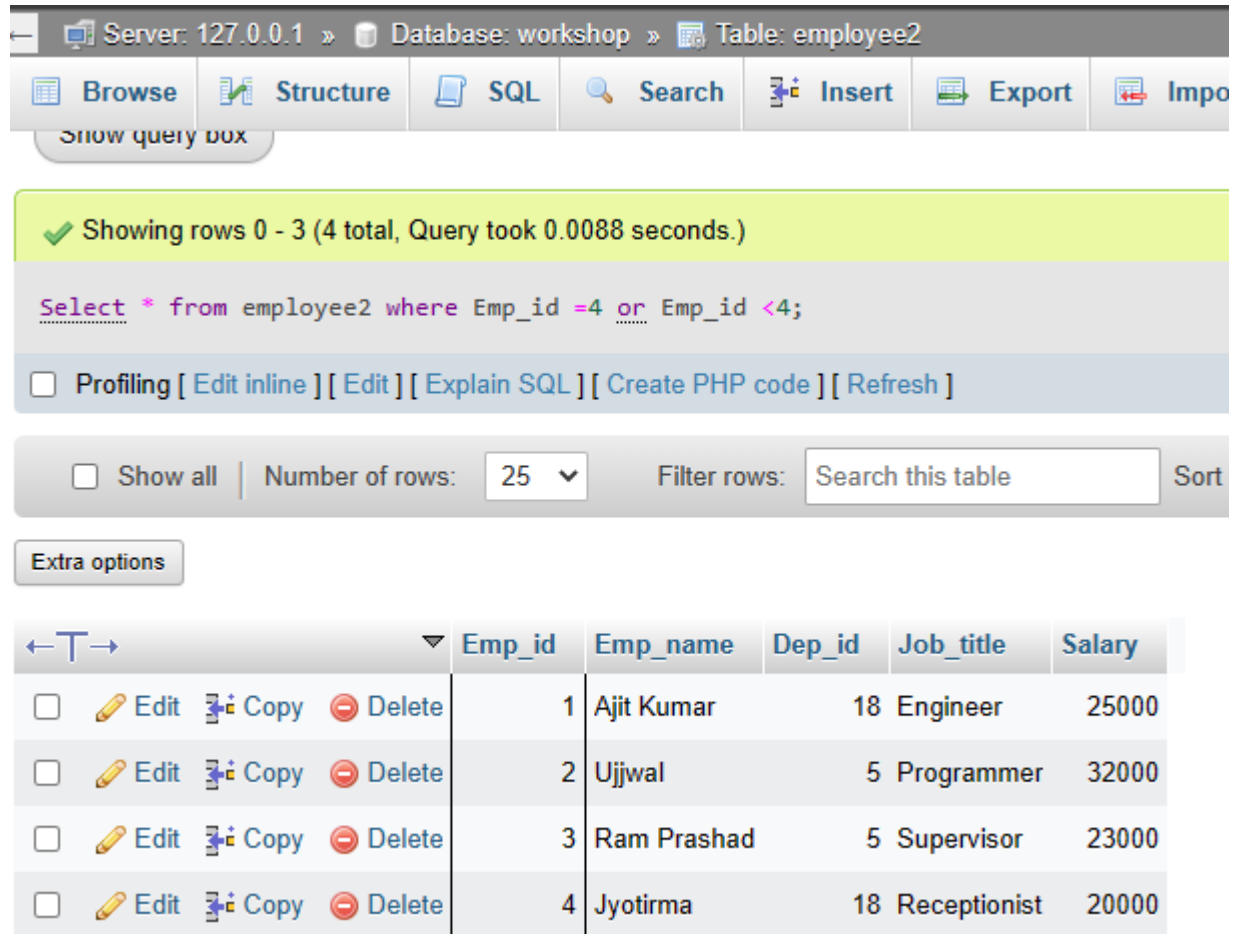
Select * from Employee order by salary;



The screenshot shows a database management interface with a toolbar at the top containing buttons for Browse, Structure, SQL, Search, Insert, and Export. Below the toolbar, a status bar indicates that 7 rows are shown, sorted by salary. The SQL query entered is 'Select * from employee2 order by Salary;'. The table below displays the results, with columns for Emp_id, Emp_name, Dep_id, Job_title, and Salary. The rows are sorted in ascending order of salary.

	Emp_id	Emp_name	Dep_id	Job_title	Salary
<input type="checkbox"/> Edit Copy Delete	4	Jyotirma	18	Receptionist	20000
<input type="checkbox"/> Edit Copy Delete	5	Kanchan	5	Programmer	21000
<input type="checkbox"/> Edit Copy Delete	3	Ram Prashad	5	Supervisor	23000
<input type="checkbox"/> Edit Copy Delete	7	Samip	18	Supervisor	24000
<input type="checkbox"/> Edit Copy Delete	1	Ajit Kumar	18	Engineer	25000
<input type="checkbox"/> Edit Copy Delete	2	Ujjwal	5	Programmer	32000
<input type="checkbox"/> Edit Copy Delete	6	Daya	3	Manager	35000

- d) Display all the records where Emp_id is less than or equal to 4.
Select * from Employee where id =4 or id <4;



The screenshot shows a database management interface with a toolbar at the top containing buttons for Browse, Structure, SQL, Search, Insert, Export, and Import. Below the toolbar, a status bar indicates "Showing rows 0 - 3 (4 total, Query took 0.0088 seconds.)". The SQL query entered is `Select * from employee2 where Emp_id =4 or Emp_id <4;`. Below the query, there are options for Profiling, Edit inline, Edit, Explain SQL, Create PHP code, and Refresh. A filter section shows "Show all", "Number of rows: 25", and a "Filter rows" search box. An "Extra options" button is also present. The main area displays a table with 4 rows and 6 columns: Emp_id, Emp_name, Dep_id, Job_title, and Salary. Each row has a checkbox, an Edit button, a Copy button, and a Delete button.

	Emp_id	Emp_name	Dep_id	Job_title	Salary
<input type="checkbox"/> Edit Copy Delete	1	Ajit Kumar	18	Engineer	25000
<input type="checkbox"/> Edit Copy Delete	2	Ujjwal	5	Programmer	32000
<input type="checkbox"/> Edit Copy Delete	3	Ram Prashad	5	Supervisor	23000
<input type="checkbox"/> Edit Copy Delete	4	Jyotirma	18	Receptionist	20000

- e) Display minimum, maximum, average, total sum salary from above table respectively.

```
select max(salary) from emp;  
select min(salary) from emp;  
select avg(salary) from emp;  
select sum(salary) from emp;
```

Server: 127.0.0.1 » Database: workshop » Table: employee2

Browse Structure SQL Search Insert

Run SQL query/queries on table workshop.employee2:

```

1 select max(Salary) from employee2;
2 select min(Salary) from employee2;
3 select avg(Salary) from employee2;
4 select sum(Salary) from employee2;

```

max(Salary)

35000

f) Change the column name Name as Emp_Fname.

Alter table Employee rename column name to emp_name;

Server: 127.0.0.1 » Database: workshop » Table: employee2

Browse Structure SQL Search Insert Export Import Privileges

Run SQL query/queries on table workshop.employee2:

```

1 Alter table `employee2` CHANGE `Emp_name` `Emp_fname` VARCHAR (30) CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci NOT NULL ;

```

	Emp_id	Emp_fname	Dep_id	Job_title	Salary
<input type="checkbox"/> Edit Copy Delete	1	Ajit Kumar	18	Engineer	25000
<input type="checkbox"/> Edit Copy Delete	2	Ujjwal	5	Programmer	32000
<input type="checkbox"/> Edit Copy Delete	3	Ram Prashad	5	Supervisor	23000
<input type="checkbox"/> Edit Copy Delete	4	Jyotirma	18	Receptionist	20000
<input type="checkbox"/> Edit Copy Delete	5	Kanchan	5	Programmer	21000
<input type="checkbox"/> Edit Copy Delete	6	Daya	3	Manager	35000
<input type="checkbox"/> Edit Copy Delete	7	Samip	18	Supervisor	24000

- g) Count inserted row using SQL statement.

Select count(salary) from emp;

The screenshot shows a database management tool interface. At the top, the breadcrumb navigation indicates 'Server: 127.0.0.1 » Database: workshop » Table: employee2'. Below this is a toolbar with buttons for 'Browse', 'Structure', 'SQL', 'Search', and 'Insert'. A warning message states: 'Current selection does not contain a unique column. Grid edit, checkbox, E'. A green status bar indicates 'Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)'. The SQL query 'Select count(Salary) from employee2;' is entered in the query editor. Below the query editor are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A 'Show all' checkbox is present, along with a 'Number of rows' dropdown set to '25' and a 'Filter rows' search box. An 'Extra options' button is also visible. The query result is displayed as a single row with the value '7' under the column 'count(Salary)'.

count(Salary)
7

- h) Update Emp_id 5 salary to 28000.00.

Update emp

Set salary=28000

Where id =1;

The screenshot shows the same database management tool interface. A 'Show query box' button is visible. A green status bar indicates '1 row affected. (Query took 0.0033 seconds.)'. The SQL query 'Update employee2 Set Salary=28000 Where Emp_id =1;' is entered in the query editor. Below the query editor are links for 'Edit inline', 'Edit', and 'Create PHP code'. The query result is displayed as a table with columns 'Emp_id', 'Emp_fname', 'Dep_id', 'Job_title', and 'Salary'. The first row shows '1', 'Ajit Kumar', '18', 'Engineer', and '28000'. Below the table are buttons for 'Edit', 'Copy', and 'Delete'.

Emp_id	Emp_fname	Dep_id	Job_title	Salary
1	Ajit Kumar	18	Engineer	28000

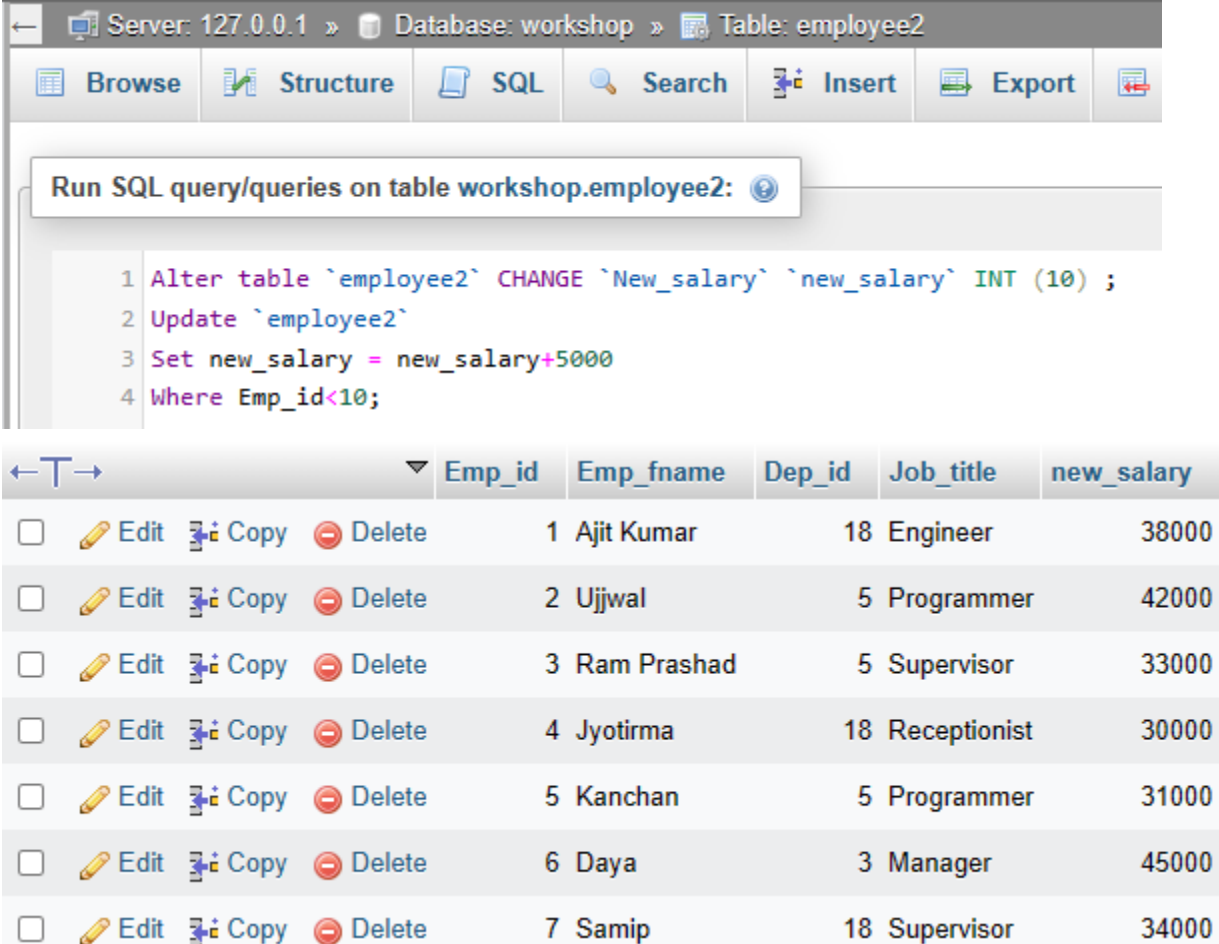
- i) Increase all the employee's salary by five thousand named as New_salary and display all the records from table.

Alter table Employee rename column salary to new_salary;

Update Employee

Set new_salary =New_salary+5000

Where emp_id<10;



The screenshot shows a database management interface. At the top, the breadcrumb navigation indicates the path: Server: 127.0.0.1 » Database: workshop » Table: employee2. Below this is a toolbar with icons for Browse, Structure, SQL, Search, Insert, and Export. A text box prompts the user to 'Run SQL query/queries on table workshop.employee2:'. Below the text box, four SQL queries are listed:

```
1 Alter table `employee2` CHANGE `New_salary` `new_salary` INT (10) ;
2 Update `employee2`
3 Set new_salary = new_salary+5000
4 Where Emp_id<10;
```

Below the queries, a table view is displayed with the following columns: Emp_id, Emp_fname, Dep_id, Job_title, and new_salary. The table contains seven rows of data, each with a checkbox, an Edit icon, a Copy icon, and a Delete icon in the first column.

	Emp_id	Emp_fname	Dep_id	Job_title	new_salary
<input type="checkbox"/> Edit Copy Delete	1	Ajit Kumar	18	Engineer	38000
<input type="checkbox"/> Edit Copy Delete	2	Ujjwal	5	Programmer	42000
<input type="checkbox"/> Edit Copy Delete	3	Ram Prashad	5	Supervisor	33000
<input type="checkbox"/> Edit Copy Delete	4	Jyotirma	18	Receptionist	30000
<input type="checkbox"/> Edit Copy Delete	5	Kanchan	5	Programmer	31000
<input type="checkbox"/> Edit Copy Delete	6	Daya	3	Manager	45000
<input type="checkbox"/> Edit Copy Delete	7	Samip	18	Supervisor	34000