

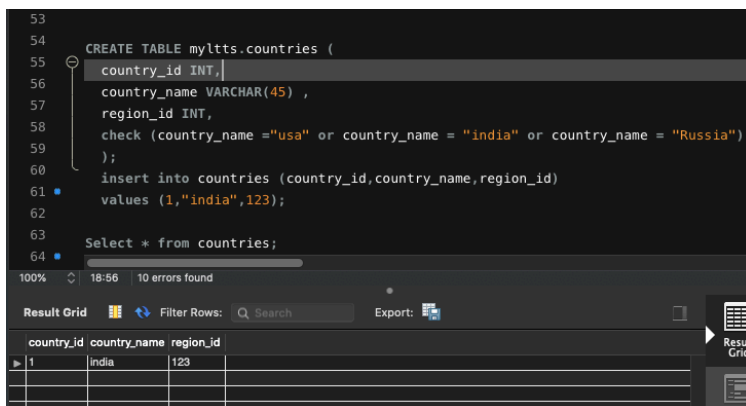
## MYSQL ACTIVITES

I have used mysql workbench  
For activités

### ACTIVITY 1:

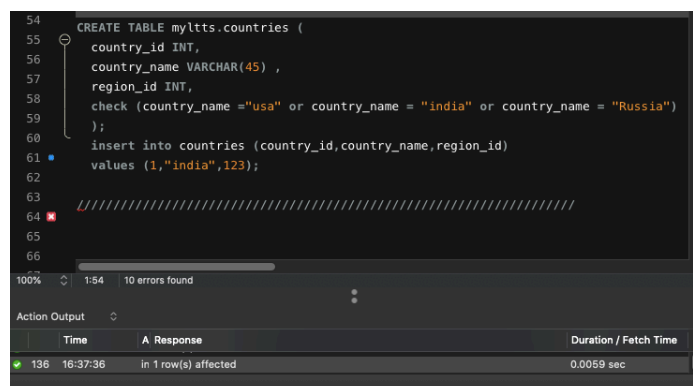
1. Write a SQL statement to create a table named countries including columns country\_id, country\_name and region\_id and make sure that no countries except USA, India and Russia will be entered in the table.

```
CREATE TABLE mylts.countries (  
  country_id INT,  
  country_name VARCHAR(45) ,  
  region_id INT,  
  check (country_name ="usa" or country_name = "india" or  
country_name = "Russia")  
);  
insert into countries (country_id,country_name,region_id)  
values (1,"india",123);  
  
Select * from countries;
```



```
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55 CREATE TABLE mylts.countries (  
56   country_id INT,  
57   country_name VARCHAR(45) ,  
58   region_id INT,  
59   check (country_name ="usa" or country_name = "india" or country_name = "Russia")  
60 );  
61 insert into countries (country_id,country_name,region_id)  
62 values (1,"india",123);  
63  
64 Select * from countries;
```

country_id	country_name	region_id
1	india	123



```
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55  
56 CREATE TABLE mylts.countries (  
57   country_id INT,  
58   country_name VARCHAR(45) ,  
59   region_id INT,  
60   check (country_name ="usa" or country_name = "india" or country_name = "Russia")  
61 );  
62 insert into countries (country_id,country_name,region_id)  
63 values (1,"india",123);  
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```

### Activity2:

2. Write a SQL statement to create a table named Employee including columns emp\_id, emp\_name and emp\_address and make sure that the emp\_id column will be a key field which will not contain any duplicate data at the time of insertion.

```
CREATE TABLE myltts.Employee (  
    emp_id INT not null,  
    emp_name VARCHAR(45) ,  
    emp_address VARCHAR(45) ,  
    primary key(emp_id)  
);  
  
insert into Employee (emp_id,emp_name,emp_address)  
values (1,"kiran","bobbili");
```

The screenshot shows a SQL IDE interface with a dark theme. The SQL editor at the top contains the following code:

```
69 CREATE TABLE myltts.Employee (  
70     emp_id INT not null,  
71     emp_name VARCHAR(45) ,  
72     emp_address VARCHAR(45) ,  
73     primary key(emp_id)  
74 );  
75  
76 insert into Employee (emp_id,emp_name,emp_address)  
77 values (1,"kiran","bobbili");  
78  
79 select * from employee;  
80
```

Below the editor, the status bar shows "100%", "3:79", and "10 errors found". The "Result Grid" tab is active, displaying a table with the following data:

emp_id	emp_name	emp_address
1	kiran	bobbili

At the bottom, the "Action Output" tab shows the following information:

	Time	A Response	Duration / Fetch Time
✓ 140	16:57:02	SI 1 row(s) returned	0.00086 sec / 0.000...

### Activity3:

3. Write a SQL statement to insert one row into the table

Employee against the column emp\_id and emp\_name.

Note: columns in the table are emp\_id, emp\_name, emp\_address.

```
insert into Employee (emp_id,emp_name,emp_address)
values (1,"kiran","bobbili");
```

```
insert into Employee (emp_id,emp_name,emp_address)
values (1,"pavan","parvathipuram");
```

```
76 insert into Employee (emp_id,emp_name,emp_address)
77 values (1,"kiran","bobbili");
78
79
80 insert into Employee (emp_id,emp_name,emp_address)
81 values (1,"pavan","parvathipuram");
82
83 select * from employee;
84
```

100% 3:79 10 errors found

Action Output

	Time	A Response	Duration / Fetch Time
✖ 141	17:00:58	in Error Code: 1062. Duplicate entry '1' for key 'employee.PRIMARY'	0.00039 sec

#### Activity4:

Write a SQL statement to insert 4 rows by a single insert statement.

Employee(emp\_id,emp\_name,emp\_address).

```
insert into Employee
(emp_id,emp_name,emp_address)
values (2,"kiran2","bobbili2"),
       (3,"pavan","parvathipuram"),
       (4,"ajay","vizag"),
       (5,"praveen","vijaywada");

select* from Employee;
```

The screenshot shows a SQL IDE interface. The top panel displays the following SQL code:

```
85 insert into Employee (emp_id,emp_name,emp_address)
86 values (2,"kiran2","bobbili2"),
87         (3,"pavan","parvathipuram"),
88         (4,"ajay","vizag"),
89         (5,"praveen","vijaywada");
90
91 select* from Employee;
92
```

Below the code editor, the 'Result Grid' is visible, showing the data inserted into the 'Employee' table. The grid has columns 'emp\_id', 'emp\_name', and 'emp\_address'. The data is as follows:

emp_id	emp_name	emp_address
1	kiran	bobbili
2	kiran2	bobbili2
3	pavan	parvathipuram
4	ajay	vizag
5	praveen	vijaywada

The bottom panel shows the 'Action Output' with the following details:

	Time	A Response	Duration / Fetch Time
✓ 143	17:04:15	5 row(s) returned	0.00036 sec / 0.000...

### Activity5:

Write a SQL statement to insert rows into the table

Employee in which the value of emp\_id column will be unique and auto incremented.

```
create table myltts.Employee
(
    emp_id int not null auto_increment primary key,
    emp_name varchar(255) not null,
    emp_address varchar(255) not null
);
insert into employee(emp_name ,emp_address)
values("kiran","bobbili");

select * from employee;
```

```
94 create table myltts.Employee
95
96 (
97     emp_id int not null auto_increment primary key,
98     emp_name varchar(255) not null,
99     emp_address varchar(255) not null
100 );
101 insert into employee(emp_name ,emp_address)
102 values("kiran","bobbili");
103
104 select * from employee;
```

100% 38:98 10 errors found

Result Grid Filter Rows: Search Edit: Export/Import:

emp_id	emp_name	emp_address
1	kiran	bobbili
NULL	NULL	NULL

employee 42 Apply

Action Output

	Time	A...	Response	Duration / Fetch Time
✓ 147	17:07:45	s...	1 row(s) returned	0.00033 sec / 0.000...

#### Activity6:

Write a SQL statement to add a primary key for a combination of columns Emp\_id and Emp\_Aadhar.

```
create table myltts.employee
(
  emp_id int not null,
  emp_name varchar(255) not null,
  emp_address varchar(255)not null,
  emp_adhar int not null,
  constraint pk_employee primary key (emp_id ,
emp_adhar)
);
select * from employee;
```

The screenshot shows a SQL IDE interface. The top panel displays the following SQL code:

```
109 create table myltts.employee
110 (
111     emp_id int not null,
112     emp_name varchar(255) not null,
113     emp_address varchar(255)not null,
114     emp_adhar int not null,
115     constraint pk_employee primary key (emp_id , emp_adhar)
116 );
117 select * from employee;
118
```

Below the code editor, a status bar indicates "100%", "29:118", and "10 errors found". The "Result Grid" tab is active, showing a table with the following columns: emp\_id, emp\_name, emp\_address, emp\_adhar. The first row contains NULL values for all columns. The table is currently empty.

The "Form Editor" tab is also visible, showing a form with the label "employee 43".

The "Action Output" panel at the bottom shows the following details:

	Time	A...	Response	Duration / Fetch Time
✓ 150	17:09:53	s...	0 row(s) returned	0.0031 sec / 0.00001...

### Activity7:

Write a query to get the names (first\_name, last\_name), salary, PF of all the Engineer (PF is calculated as 15% of salary)

```
create table mylts.engineer
(
    engineer_id int not null,
    engineer_firstname varchar(255) not null,
    engineer_lastname varchar(255) not null,
    engineer_salary int not null
);

insert into
engineer(engineer_id,engineer_firstname,engineer_lastname,engineer_salary)
values(1,"kiran","gorijala",40000),
      (2,"pavan","marpina",50000),
      (3,"rohit","kumar",30000),
      (4,"saideep","taddi",35000);
```

The screenshot shows a database IDE with a SQL editor and a results pane. The SQL editor contains the following code:

```
119
120
121 create table mylts.engineer
122 (
123     engineer_id int not null,
124     engineer_firstname varchar(255) not null,
125     engineer_lastname varchar(255) not null,
126     engineer_salary int not null
127 );
128
129 insert into engineer(engineer_id,engineer_firstname,engineer_lastname,engineer_salary)
130 values(1,"kiran","gorijala",40000),
131        (2,"pavan","marpina",50000),
132        (3,"rohit","kumar",30000),
133        (4,"saideep","taddi",35000);
134
135 select * from engineer;
```

The results pane shows the following data:

engineer_id	engineer_firstname	engineer_lastname	engineer_salary
1	kiran	gorijala	40000
2	pavan	marpina	50000
3	rohit	kumar	30000
4	saideep	taddi	35000

The bottom of the IDE shows the Action Output pane with the following information:

Time	A...	Response	Duration / Fetch Time
156 17:13:41	s...	4 row(s) returned	0.00032 sec / 0.000...

### Activity8:

Write a query to get the average salary and number of Engineer in the Engineer table.

```
select engineer_id,engineer_firstname,engineer_lastname ,  
(engineer_salary*15)/100 as PF  
from engineer;  
select * from engineer;
```

The screenshot shows a database query editor with a dark theme. The SQL query is as follows:

```
145      select engineer_id,engineer_firstname,engineer_lastname ,(engineer_salary*15)/100
146      from engineer;
147      select * from engineer;
```

Below the query, there is a status bar indicating "11 errors found". The results are displayed in a table with the following columns: **engineer\_id**, **engineer\_firstname**, **engineer\_lastname**, and **engineer\_salary**. The table contains 4 rows of data:

engineer_id	engineer_firstname	engineer_lastname	engineer_salary
1	kiran	gorijala	40000
2	pavan	marpina	50000
3	rohit	kumar	30000
4	saideep	taddi	35000

The interface also includes a "Result Grid" button, a "Form Editor" button, and a "Read Only" status. At the bottom, there is an "Action Output" section showing the execution details:

	Time	A...	Response	Duration / Fetch Time
✓ 158	17:19:01	s...	4 row(s) returned	0.00040 sec / 0.000...



### Activity9:

9. Write a query to get the highest, lowest, sum, and average salary of all employees

```
select min(engineer_salary) as lowest_salary,  
       max(engineer_salary) as highest_salary,  
       sum(engineer_salary),  
       avg(engineer_salary) as average_salary  
from engineer;
```

```
158      select min(engineer_salary) as lowest_salary,  
159      max(engineer_salary) as highest_salary,  
160      sum(engineer_salary),  
161      avg(engineer_salary) as average_salary  
162      from engineer;  
163  
164
```

100% 6:164 11 errors found

Result Grid Filter Rows: Search Export:

lowest_salary	highest_salary	sum(engineer_salary)	average_salary
30000	50000	155000	38750.0000

Result 47 Read Only

Action Output

	Time	A...	Response	Duration / Fetch Time
✓	159 17:24:59	s...	1 row(s) returned	0.00052 sec / 0.0000...

### Activity10:

10. Write a query to find the name (first\_name, last\_name) and the salary of the employees who have a higher salary than the employee whose last\_name='kumar'

```
select engineer_firstname,engineer_lastname,engineer_salary
from engineer,
(select engineer_salary as engineer_kumar_salary
from engineer
where engineer_lastname ="kumar")as kumar_salary
where engineer.engineer_salary >
kumar_salary.engineer_kumar_salary;
```

The screenshot displays a database query editor interface. The top section shows the SQL query being executed, which is identical to the one in the previous block. Below the query editor, the 'Result Grid' tab is active, showing the results of the query. The results are displayed in a table with three columns: 'engineer\_firstname', 'engineer\_lastname', and 'engineer\_salary'. The table contains three rows of data: kiran, gorijala, 40000; pavan, marpina, 50000; and saideep, taddi, 35000. The bottom section of the interface shows the 'Action Output' tab, which displays the execution details: a green checkmark, the number 160, the time 17:27:56, the response '3 row(s) returned', and the duration '0.0010 sec / 0.00001...'.

```
167      select engineer_firstname,engineer_lastname,engineer_salary
168      from engineer,
169      (select engineer_salary as engineer_kumar_salary
170      from engineer
171      where engineer_lastname ="kumar")as kumar_salary
172      where engineer.engineer_salary >
173      kumar_salary.engineer_kumar_salary;
174
```

100% 6:174 11 errors found

Result Grid Filter Rows: Search Export

engineer_firstname	engineer_lastname	engineer_salary
kiran	gorijala	40000
pavan	marpina	50000
saideep	taddi	35000

Result 48 Read Only

Action Output

	Time	A...	Response	Duration / Fetch Time
✓ 160	17:27:56	s...	3 row(s) returned	0.0010 sec / 0.00001...

### Activity11:

11. Write a query to display the employee ID, first name, last name, salary of all employees whose salary is above average for their departments

```
select *  
from engineer  
where engineer_salary > (select avg(engineer_salary) from engineer);
```

The screenshot shows a database IDE interface. At the top, a SQL query is entered in a text area:

```
179      select *  
180      from engineer  
181      where engineer_salary > (select avg(engineer_salary) from engineer);  
182  
183  
184  
185
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has five columns: **engineer\_id**, **engineer\_firstname**, **engineer\_lastname**, **engineer\_salary**, and an empty column. The results are as follows:

engineer_id	engineer_firstname	engineer_lastname	engineer_salary	
1	kiran	gorijala	40000	
2	pavan	marpina	50000	

Below the result grid, the 'Action Output' section shows the execution details:

	Time	A...	Response	Duration / Fetch Time
✓ 161	17:30:52	s...	2 row(s) returned	0.00046 sec / 0.000...