

simple select: Selection and Projection

The screenshot shows the MySQL Workbench interface with a query editor and a result grid. The query is:

```
use hr;
select * from employees;
select employee_id, last_name, salary, department_id from employees;
```

The result grid displays the following data:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	NULL	90	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00	NULL	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00	NULL	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00	NULL	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00	NULL	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00	NULL	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NULL	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00	NULL	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4568	1994-08-17	FI_MGR	12000.00	NULL	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00	NULL	108	100
110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00	NULL	108	100
111	Ismael	Sciarras	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00	NULL	108	100
112	Tina	Manuel	TIRMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	NULL	101	100

The screenshot shows the MySQL Workbench interface with a query editor and a result grid. The query is:

```
use hr;
select * from employees;
select employee_id, last_name, salary, department_id from employees;
```

The result grid displays the following data:

employee_id	last_name	salary	department_id
100	King	24000.00	90
101	Kochhar	17000.00	90
102	De Haan	17000.00	90
103	Hunold	9000.00	60
104	Ernst	6000.00	60
105	Austin	4800.00	60
106	Pataballa	4800.00	60
107	Lorentz	4200.00	60
108	Greenberg	12000.00	100
109	Faviet	9000.00	100
110	Chen	8200.00	100
111	Sciarras	7700.00	100
112	Tirman	7800.00	100

Query 1 hr-schema-mysql*

```
1 • use hr;
2 • select * from employees;
3 • select employee_id, last_name, salary, department_id from employees;
4 • desc departments;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

Field	Type	Null	Key	Default	Extra
department_id	int unsigned	NO	PRI	NULL	
department_name	varchar(30)	NO		NULL	
manager_id	int unsigned	YES	MUL	NULL	
location_id	int unsigned	YES	MUL	NULL	

Query 1 hr-schema-mysql*

```
1 • use hr;
2 • select * from employees;
3 • select employee_id, last_name, salary, department_id from employees;
4 • desc departments;
5 • select department_id, location_id from departments;
```

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

department_id	location_id
60	1400
50	1500
10	1700
30	1700
90	1700
100	1700
110	1700
120	1700
130	1700
140	1700
150	1700
160	1700
170	1700

salary

Tables

- countries
- departments
- employees
- job_history
- jobs
- locations
- regions

Session Result 10

2 • select * from employees;
3 • select employee_id, last_name, salary, department_id from employees;
4 • desc departments;
5 • select department_id, location_id from departments;
6 • select last_name, salary, salary+300 from employees;

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

last_name	salary	salary+300
King	24000.00	24300.00
Kochhar	17000.00	17300.00
De Haan	17000.00	17300.00
Hunold	9000.00	9300.00
Ernst	6000.00	6300.00
Austin	4800.00	5100.00
Pataballa	4800.00	5100.00
Lorentz	4200.00	4500.00
Greenberg	12000.00	12300.00
Faviet	9000.00	9300.00
Chen	8200.00	8500.00
Sidhar	7700.00	8000.00
Urmal	7800.00	8100.00

Query 1 hr-schema-mysql

```
3 •  select employee_id, last_name, salary, department_id from employees;
4 •  desc departments;
5 •  select department_id, location_id from departments;
6 •  select last_name, salary, salary+300 from employees;
7 •  select last_name, salary, salary*12 from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

last_name	salary	salary*12
King	24000.00	288000.00
Kochhar	17000.00	204000.00
De Haan	17000.00	204000.00
Hunold	9000.00	108000.00
Ernst	6000.00	72000.00
Austin	4800.00	57600.00
Pataballa	4800.00	57600.00
Lorentz	4200.00	50400.00
Greenberg	12000.00	144000.00
Faviet	9000.00	108000.00
Chen	8200.00	98400.00
Sciarra	7700.00	92400.00
Irmam	7800.00	93600.00

Session Result 11 x Read Only

Query 1 hr-schema-mysql

```
3 •  select employee_id, last_name, salary, department_id from employees;
4 •  desc departments;
5 •  select department_id, location_id from departments;
6 •  select last_name, salary, salary+300 from employees;
7 •  select last_name, salary, (salary*12)+100 from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

last_name	salary	(salary*12)+100
King	24000.00	288100.00
Kochhar	17000.00	204100.00
De Haan	17000.00	204100.00
Hunold	9000.00	108100.00
Ernst	6000.00	72100.00
Austin	4800.00	57700.00
Pataballa	4800.00	57700.00
Lorentz	4200.00	50500.00
Greenberg	12000.00	144100.00
Faviet	9000.00	108100.00
Chen	8200.00	98500.00
Sciarra	7700.00	92500.00
Irmam	7800.00	93700.00

Session Result 12 x Read Only

Query 1 hr-schema-mysql

```
4 •  desc departments;
5 •  select department_id, location_id from departments;
6 •  select last_name, salary, salary+300 from employees;
7 •  select last_name, salary, (salary*12)+100 from employees;
8 •  select last_name, salary, (salary*12)+100 annualsal from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

last_name	salary	annualsal
King	24000.00	288100.00
Kochhar	17000.00	204100.00
De Haan	17000.00	204100.00
Hunold	9000.00	108100.00
Ernst	6000.00	72100.00
Austin	4800.00	57700.00
Pataballa	4800.00	57700.00
Lorentz	4200.00	50500.00
Greenberg	12000.00	144100.00
Faviet	9000.00	108100.00
Chen	8200.00	98500.00
Sciarra	7700.00	92500.00
Irmam	7800.00	93700.00

Session Result 13 x Read Only

commission_pct

The screenshot shows a MySQL Workbench interface. The query editor contains the following SQL code:

```
1 select commission_pct from employees;
```

The results grid shows the following output:

commission_pct
NULL

The status bar at the bottom right indicates "2:30 PM" and "0/13/2021".

The screenshot shows a MySQL Workbench interface with the following details:

- Query Editor:** Title: "Query 1" - "hr-schema-mysql". The SQL query is: `select last_name, job_id, commission_pct from employees;`
- Result Grid:** Shows the results of the query for 15 rows. The columns are: last_name, job_id, and commission_pct. The data includes rows for King, Kochhar, De Haan, Hunold, and Ernst.
- Action Output:** A log of 27 actions, mostly SELECT statements, with timestamps ranging from 14:30:20 to 14:31:46. The log also includes error messages related to syntax errors.
- Message Panel:** Displays error messages such as "Error Code: 1064 You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select last_name, job_id, commission_pct from employees'" repeated multiple times.
- System Bar:** Shows the date and time as 23.11.2021 14:31:46, system temperature as 34°C, and battery status as 14%.

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** The title bar says "Query 1" and "hr-schema-mysql". The SQL query is:

```
select last_name,12*salary*commission_pct from employees;
```
- Result Grid:** The results show the last name and calculated commission for each employee. The data is as follows:

last_name	12*salary*commission_pct
King	10000.00
Kochhar	10000.00
De Haan	10000.00
Hunold	10000.00
Ernest	10000.00

- Action Output:** This section lists the history of actions taken on the query:
 - 271 14:31:02 select last_name,job_id,commission_pct from employees
 - 272 14:31:12 select last_name,job_id,commission_pct from employees
 - 273 14:31:20 select last_name,job_id,commission_pct from employees
 - 274 14:31:27 select last_name,job_id,commission_pct from employees
 - 275 14:31:46 select last_name,job_id,commission_pct from employees LIMIT 0, 1000 (Success)
 - 276 14:32:40 select last_name,12*salary*commission_pct from employees (Success)
- Message Log:** The log shows error messages from MySQL, all related to Error Code: 1064 (syntax errors). The log entries are:
 - Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '12*salary*commission_pct' at line 1. 0.000 sec
 - Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '12*salary*commission_pct' at line 1. 0.016 sec
 - Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '12*salary*commission_pct' at line 1. 0.000 sec
 - Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '12*salary*commission_pct' at line 1. 0.016 sec
 - Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '12*salary*commission_pct' at line 1. 0.000 sec / 0.000 sec
 - Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '12*salary*commission_pct' at line 1. 0.000 sec / 0.000 sec

concat

```
1 select last_name,12*salary*commission_pct from employees;
2 • select concat(last_name,job_id) from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

concat(last_name,job_id)
KingAD_PRES
KochharAD_VP
De HaanAD_VP
HunoldIT_PROG
ErnstIT_PROG
AustinIT_PROG
PataballaIT_PROG
LorentIT_PROG
GreenbergIT_MGR
FavietFI_ACCOUNT
ChenFI_ACCOUNT
SearsFI_ACCOUNT
IrrmanFI_ACCOUNT

Result 19 Result 20 ×

```
1 select last_name,12*salary*commission_pct from employees;
2 • select concat(last_name, works_at,job_id)empwithjobid from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

empwithjobid
Kingworks atAD_PRES
Kochharworks atAD_VP
De Haanworks atAD_VP
Hunoldworks atIT_PROG
Ernstworks atIT_PROG
Austinworks atIT_PROG
Pataballaworks atIT_PROG
Lorentworks atIT_PROG
Greenbergworks atFI_MGR
Favietworks atFI_ACCOUNT
Chenworks atFI_ACCOUNT
Searsworks atFI_ACCOUNT
Irrmanworks atFI_ACCOUNT

Result 21 ×

```
1 • select employee_id,department_id from employees;
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content:

employee_id	department_id
178	10
200	10
201	20
202	20
114	30
115	30
116	30
117	30
118	30
119	30
203	40
120	50
121	50

employees 22 ×

The screenshot shows the MySQL Workbench interface with two queries run against the 'hr-schema-mysql' database.

Query 1:

```
1 • select employee_id,department_id from employees;
2 • select department_id from employees;
```

Result Grid:

department_id
NULL
10
20
20
30
30
30
30
30
30
40
50
50

Query 2:

```
1 • select employee_id,department_id from employees;
2 • select distinct department_id from employees;
```

Result Grid:

department_id
NULL
10
20
30
40
50
60
70
80
90
100
110

Restriction and sorting

The screenshot shows the MySQL Workbench interface with a single query run against the 'hr-schema-mysql' database.

Query 1:

```
1 • desc departments;
```

Result Grid:

Field	Type	Null	Key	Default	Extra
department_id	int unsigned	NO	PRI	NULL	
department_name	varchar(30)	NO		NULL	
manager_id	int unsigned	YES	MUL	NULL	
location_id	int unsigned	YES	MUL	NULL	

Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
1 select employee_id, last_name, department_id from employees where department_id=90;
```

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

employee_id	last_name	department_id
100	King	90
101	Kochhar	90
102	De Haan	90
NULL	NULL	NULL

Scripting Help

Query 1 hr-schema-mysql*

```
1 select employee_id, last_name, department_id from employees where department_id=50;
```

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

employee_id	last_name	department_id
120	Weiss	50
121	Fripp	50
122	Kaufling	50
123	Vollman	50
124	Mourgos	50
125	Nayer	50
126	Mikkilineni	50
127	Landry	50
128	Marke	50
129	Bisot	50
130	Atkinson	50
131	Marlow	50
132	O'honn	50

Scripting Help

Query 1 hr-schema-mysql*

```
1 select employee_id, last_name, department_id from employees where department_id=50;
2 select employee_id, last_name, hire_date, department_id from employees where last_name='vollman';
```

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

employee_id	last_name	hire_date	department_id
123	Vollman	1997-10-10	50
NULL	NULL	NULL	NULL

hire_date

MySQL Workbench screenshot showing a query result and action history.

Query:

```
1 • select employee_id, last_name, hire_date, salary from employees where hire_date='1997-10-10';
```

Result Grid:

employee_id	last_name	hire_date	salary
123	Vollman	1997-10-10	6500.00
NULL	NULL	NULL	NULL

Action History:

Time	Action	Message	Duration / Fetch
285 14:46:18	desc departments	4 row(s) returned	0.015 sec / 0.000 sec
286 14:51:06	select employee_id, last_name, department_id from employees where department_id = 1;	3 row(s) returned	0.000 sec / 0.000 sec
287 14:51:19	select employee_id, last_name, department_id from employees where department_id = 4;	45 row(s) returned	0.000 sec / 0.000 sec
288 14:53:43	select employee_id, last_name, hire_date, department_id from employees where last_name = 'Foster';	1 row(s) returned	0.000 sec / 0.000 sec
289 14:56:51	select employee_id, last_name, hire_date, salary from employees where hire_date='1997-10-10';	Error Code: 1054. Unknown column 'hiredate' in 'where clause'	0.000 sec / 0.000 sec
290 14:57:55	select employee_id, last_name, hire_date, salary from employees where hire_date='1997-10-10';	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench screenshot showing a query result and action history.

Query:

```
1 • select employee_id, last_name, hire_date, salary from employees where hire_date='1997-10-10';
2 • select hire_date from employees;
```

Result Grid:

hire_date
1987-06-17
1989-09-21
1993-01-13
1990-01-03
1991-05-21

MySQL Workbench screenshot showing a query result and action history.

Query:

```
1 • select employee_id, last_name, hire_date, salary from employees where hire_date='1997-03-19';
2 • select employee_id, last_name, hire_date, salary from employees where DATE_FORMAT(hire_date, '%Y')=1997;
```

Result Grid:

employee_id	last_name	hire_date	salary
175	Hutton	1997-03-19	8800.00
NULL	NULL	NULL	NULL

Action History:

Time	Action	Message	Duration / Fetch
290 15:00:14	select employee_id, last_name, hire_date, salary from employees where hire_date='1997-03-19';	1 row(s) returned	0.000 sec / 0.000 sec

Syntax Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
1 • select employee_id, last_name, hire_date, salary from employees where hire_date='1997-03-19';
2 • select employee_id, last_name, hire_date, salary from employees where DATE_FORMAT(hire_date, '%Y')=1996;
3
```

Result Grid | Filter Rows: | Edit: | Export/Imports: | Wrap Cell Contents: |

employee_id	last_name	hire_date	salary
120	Weiss	1996-07-18	8000.00
133	Mallin	1996-06-14	3300.00
145	Russell	1996-10-01	14000.00
156	King	1996-01-30	10000.00
157	Sully	1996-03-04	9500.00
158	McEwen	1996-08-01	9000.00
174	Abel	1996-05-11	11000.00
184	Sarchand	1996-01-27	4200.00
192	Bell	1996-02-04	4000.00
201	Hartstein	1996-02-17	13000.00
NULL	NULL	NULL	NULL

employees 33 X

Syntax Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
1 • select employee_id, last_name, hire_date, salary from employees where hire_date='1997-03-19';
2 • select employee_id, last_name, hire_date, salary from employees where DATE_FORMAT(hire_date, '%Y')=1996;
3 • select employee_id, last_name, hire_date, salary from employees where DATE_FORMAT(hire_date, '%Y')=1996;
4 • select employee_id, last_name, Date_format('%%D %%M %%Y'), salary from employees where DATE_FORMAT(hire_date, '%Y')=1996;
5
```

Result Grid | Filter Rows: | Edit: | Export/Imports: | Wrap Cell Contents: |

employee_id	last_name	hire_date	salary
120	Weiss	1996-07-18	8000.00
133	Mallin	1996-06-14	3300.00
145	Russell	1996-10-01	14000.00
156	King	1996-01-30	10000.00
157	Sully	1996-03-04	9500.00
158	McEwen	1996-08-01	9000.00
174	Abel	1996-05-11	11000.00
184	Sarchand	1996-01-27	4200.00
192	Bell	1996-02-04	4000.00
201	Hartstein	1996-02-17	13000.00
NULL	NULL	NULL	NULL

employees 35 X

A screenshot of a Windows desktop showing a MySQL Workbench window titled "Torry-Harris". The window displays a query in the SQL editor and its results in a grid. The SQL query is:

```
use hr;
select employee_id, last_name, Date_FORMAT(hire_date, '%W %D %M %Y'), salary from employees where DATE_FORMAT(hire_date, '%Y')=1996;
```

The Result Grid shows the following data:

employee_id	last_name	Date_FORMAT(hire_date, '%W %D %M %Y')	salary
120	Weiss	Thursday 18th July 1996	8000.00
133	Mallin	Friday 14th June 1996	3300.00
145	Russell	Tuesday 1st October 1996	14000.00
156	King	Tuesday 30th January 1996	10000.00
157	Sully	Monday 4th March 1996	9500.00
158	McEwen	Thursday 1st August 1996	9000.00
174	Abel	Saturday 11th May 1996	11000.00
184	Sarchand	Saturday 27th January 1996	4200.00

The status bar at the bottom right shows the date as 9/17/2021 and the time as 13:20.

A screenshot of a Windows desktop showing a MySQL Workbench window titled "Torry-Harris". The window displays a query in the SQL editor and its results in a grid. The SQL query is:

```
select employee_id, first_name, date_format(hire_date, '%W %D %M %Y'), salary from employees where date_format(hire_date, '%Y')='1996';
```

The Result Grid shows the following data:

employee_id	first_name	date_format(hire_date, '%W %D %M %Y')	salary
120	Matthew	Thursday 18th July 1996	8000.00
133	Jason	Friday 14th June 1996	3300.00
145	John	Tuesday 1st October 1996	14000.00
156	Janette	Tuesday 30th January 1996	10000.00
157	Patrick	Monday 4th March 1996	9500.00
158	Allan	Thursday 1st August 1996	9000.00
174	Ellen	Saturday 11th May 1996	11000.00
184	Nandita	Saturday 27th January 1996	4200.00
192	Sarah	Sunday 4th February 1996	4000.00
201	Michael	Saturday 17th February 1996	13000.00

The status bar at the bottom right shows the date as 9/13/2021 and the time as 16:57.

Restriction with comparison operators >,<,<>,=,between

Session: employees 39 X

```
1 | Limit to 1000 rows
2 • select last_name,salary from employees where salary<=3000;
```

last_name	salary
Ernst	6000.00
Austin	4800.00
Pataballa	4800.00
Lorentz	4200.00
Sciarrা	7700.00
Urman	7800.00
Popp	6900.00
Khoo	3100.00
Baida	2900.00
Tobias	2800.00
Himuro	2600.00
Colmenares	2500.00
Weiss	8000.00

Session: employees 40 X

```
1 | Limit to 1000 rows
2 • s Execute the selected portion of the script or everything, if there is no selection
3 • select last_name,salary from employees where salary=5000;
4
```

last_name	salary
Mourgos	5800.00

Session: employees 41 X

```
1 | Limit to 1000 rows
2 • s Execute the selected portion of the script or everything, if there is no selection
3 • select last_name,salary from employees where salary>=5000;
4 • select last_name,salary from employees where salary>=10000;
5
```

last_name	salary
King	24000.00
Kochhar	17000.00
De Haan	17000.00
Hunold	9000.00
Greenberg	12000.00
Faviet	9000.00
Chen	8200.00
Raphaely	11000.00
Weiss	8000.00
Frapp	8200.00
Russell	14000.00
Partners	13500.00
Ernest	12000.00

```
1
2 • select last_name,salary from employees where salary<=8000;
3 • select last_name,salary from employees where salary=5800;
4 • select last_name,salary from employees where salary>=8000;
5 • select last_name,salary from employees where salary<>8000;
```

last_name	salary
King	24000.00
Kochhar	17000.00
De Haan	17000.00
Hunold	9000.00
Ernst	6000.00
Austin	4800.00
Pataballa	4800.00
Lorentz	4200.00
Greenberg	12000.00
Faviet	9000.00
Chen	8200.00
Saara	7700.00
Ullman	7800.00

employees 42 ×

```
2 • select last_name,salary from employees where salary<=8000;
3 • select last_name,salary from employees where salary=5800;
4 • select last_name,salary from employees where salary>=8000;
5 • select last_name,salary from employees where salary<>8000;
6 • select last_name,salary from employees where salary between 2500 and 3500;
```

last_name	salary
Khoo	3100.00
Baida	2900.00
Tobias	2800.00
Himuro	2600.00
Colmenares	2500.00
Nayer	3200.00
Mikkilineni	2700.00
Bisot	3300.00
Atkinson	2800.00
Marlow	2500.00
Mallin	3300.00
Rogers	2900.00
Shack	3200.00

employees 43 ×

```
3 • select last_name,salary from employees where salary=5800;
4 • select last_name,salary from employees where salary>=8000;
5 • select last_name,salary from employees where salary<>8000;
6 • select last_name,salary from employees where salary between 2500 and 3500;
7 • select employee_id,last_name,salary,manager_id from employees;
```

employee_id	last_name	salary	manager_id
100	King	24000.00	NULL
101	Kochhar	17000.00	100
102	De Haan	17000.00	100
103	Hunold	9000.00	102
104	Ernst	6000.00	103
105	Austin	4800.00	103
106	Pataballa	4800.00	103
107	Lorentz	4200.00	103
108	Greenberg	12000.00	101
109	Faviet	9000.00	108
110	Chen	8200.00	108
111	Saara	7700.00	108
112	Ullman	7800.00	108

employees 44 ×

in,like,_%,

The screenshot shows the MySQL Workbench interface with the 'employees' table selected. The table has four columns: employee_id, last_name, salary, and manager_id. The data includes rows for employees like Kochhar, De Haan, Raphaely, Weiss, Fripp, Kauffing, Vollman, Mourgos, Russell, Partners, Errazuriz, Cambrault, and Zinken.

employee_id	last_name	salary	manager_id
101	Kochhar	17000.00	100
102	De Haan	17000.00	100
114	Raphaely	11000.00	100
120	Weiss	8000.00	100
121	Fripp	8200.00	100
122	Kauffing	7900.00	100
123	Vollman	6500.00	100
124	Mourgos	5800.00	100
145	Russell	14000.00	100
146	Partners	13500.00	100
147	Errazuriz	12000.00	100
148	Cambrault	11000.00	100
149	Zinken	10500.00	100

```
4 • select last_name,salary from employees where salary>=8000;
5 • select last_name,salary from employees where salary<8000;
6 • select last_name,salary from employees where salary between 2500 and 3500;
7 • select employee_id,last_name,salary,manager_id from employees;
8 • select employee_id,last_name,salary,manager_id from employees where manager_id in (100,101,201);
```

The screenshot shows the MySQL Workbench interface with the 'first_name' table selected. The table has one column: first_name. The data includes rows for Steven, Shelli, Sigal, Shanta, Steven, Stephen, Sarath, Sunder, Sundita, Sarah, Samuel, Susan, and Shellee.

first_name
Steven
Shelli
Sigal
Shanta
Steven
Stephen
Sarath
Sunder
Sundita
Sarah
Samuel
Susan
Shellee

```
5 • select last_name,salary from employees where salary>8000;
6 • select last_name,salary from employees where salary between 2500 and 3500;
7 • select employee_id,last_name,salary,manager_id from employees;
8 • select employee_id,last_name,salary,manager_id from employees where manager_id in (100,101,201);
9 • select first_name from employees where first_name like 'S%';
```

The screenshot shows the MySQL Workbench interface with the 'last_name' table selected. The table has one column: last_name. The data includes rows for Kochhar, Lorentz, Popp, Tobias, Colmenares, Vollman, Mourgos, Rogers, Doran, Fox, Johnson, and Jones.

last_name
Kochhar
Lorentz
Popp
Tobias
Colmenares
Vollman
Mourgos
Rogers
Doran
Fox
Johnson
Jones

```
6 • select last_name,salary from employees where salary between 2500 and 3500;
7 • select employee_id,last_name,salary,manager_id from employees;
8 • select employee_id,last_name,salary,manager_id from employees where manager_id in (100,101,201);
9 • select first_name from employees where first_name like 'S%';
10 • select last_name from employees where last_name like 'J%';
```

This screenshot shows the MySQL Workbench interface with the 'employees' schema selected. The SQL editor contains the following code:

```
7 • select employee_id, last_name, salary, manager_id from employees;
8 • select employee_id, last_name, salary, manager_id from employees where manager_id in (100,101,201);
9 • select first_name from employees where first_name like 'SX';
10 • select last_name from employees where last_name like '_ok';
11 • select last_name from employees where last_name like '_ux';
```

The results grid displays the last names 'Kaufling', 'Mourgos', and 'Chung'.

This screenshot shows the MySQL Workbench interface with the 'employees' schema selected. The SQL editor contains the following code:

```
8 • select employee_id, last_name, salary, manager_id from employees where manager_id in (100,101,201);
9 • select first_name from employees where first_name like 'SX';
10 • select last_name from employees where last_name like '_ok';
11 • select last_name from employees where last_name like '_ux';
12 • select last_name from employees where last_name like '%ck';
```

The results grid displays the last names 'Kochhar', 'Hunold', 'Lorentz', 'Popp', 'Khoo', 'Tobias', 'Himuro', 'Colmenares', 'Vollman', 'Mourgos', 'Bissot', 'Atkinson', and 'Marlow'.

This screenshot shows the MySQL Workbench interface with the 'employees' schema selected. The SQL editor contains the following code:

```
8 • select employee_id, last_name, salary, manager_id from employees where manager_id in (100,101,201);
9 • select first_name from employees where first_name like 'SX';
10 • select last_name from employees where last_name like '_ok';
11 • select last_name from employees where last_name like '_ux';
12 • select last_name from employees where last_name like '%ck';
```

The results grid displays the last name 'Popp'.

A screenshot of MySQL Workbench showing a query results grid. The query executed is:

```
9 • select first_name from employees where first_name like 'S%';
10 • select last_name from employees where last_name like '_ok';
11 • select last_name from employees where last_name like '____%';
12 • select last_name from employees where last_name like '%op%';
13 • select last_name,manager_id from employees where manager_id IS NULL;
```

The result grid shows one row:

last_name	manager_id
King	NULL

Logical operators (and or not)

Rules for precedence of operators:

1. Arithmetic operators
2. Comparison operators
3. IS NULL, IS NOT NULL, LIKE, NOT IN ,IN
4. BETWEEN, NOT BETWEEN
5. NOT
6. AND
7. OR

A screenshot of MySQL Workbench showing a query results grid. The query executed is:

```
1 select employee_id, last_name, job_id, salary from employees
2 where ((salary>=5000) and (job_id LIKE 'SA%'));
```

The result grid shows multiple rows of employee data:

employee_id	last_name	job_id	salary
114	Raphaely	PU_MAN	11000.00
120	Weiss	ST_MAN	8000.00
121	Fripp	ST_MAN	8200.00
122	Kaufling	ST_MAN	7900.00
123	Vollman	ST_MAN	6500.00
124	Mourgos	ST_MAN	5800.00
145	Russell	SA_MAN	14000.00
146	Partners	SA_MAN	13500.00
147	Errazuriz	SA_MAN	12000.00
148	Cambrault	SA_MAN	11000.00
149	Zlotkey	SA_MAN	10500.00
201	Hartstein	MK_MAN	13000.00
NULL	NULL	NULL	NULL

```

1 select employee_id, last_name, job_id, salary from employees
2 where ((salary>=5000) and (job_id LIKE '%MAN%'));
3 • select last_name, job_id from employees where job_id NOT IN ('IT_PROG,ST_MAN');
4 •

```

Result Grid

last_name	job_id
King	AD_PRES
Kochhar	AD_VP
De Haan	AD_VP
Hunold	IT_PROG
Ernst	IT_PROG
Austin	IT_PROG
Pataballa	IT_PROG
Lorentz	IT_PROG
Greenberg	FI_MGR
Faviet	FI_ACCOUNT
Chen	FI_ACCOUNT
Sciarra	FI_ACCOUNT
Ullman	FI_ACCOUNT

employees 53 x

```

1 select employee_id, last_name, job_id, salary from employees
2 where ((salary>=5000) and (job_id LIKE '%MAN%'));
3 • select last_name, job_id from employees where job_id NOT IN ('IT_PROG,ST_MAN');
4 • select last_name, job_id, salary from employees where ((job_id='SA REP') or (job_id='AD PRES')) and (salary>5000);

```

Result Grid

last_name	job_id	salary
King	AD_PRES	24000.00
Tucker	SA REP	10000.00
Bernstein	SA REP	9500.00
Hall	SA REP	9000.00
Olsen	SA REP	8000.00
Cambrault	SA REP	7500.00
Tuvault	SA REP	7000.00
King	SA REP	10000.00
Sully	SA REP	9500.00
McEwen	SA REP	9000.00
Smith	SA REP	8000.00
Doran	SA REP	7500.00
Seawall	SA REP	7000.00

employees 55 x

```

1 select employee_id, last_name, job_id, salary from employees
2 where ((salary>=5000) and (job_id LIKE '%MAN%'));
3 • select last_name, job_id from employees where job_id NOT IN ('IT_PROG,ST_MAN');
4 • select last_name, job_id, salary from employees where ((job_id='SA REP') or (job_id='AD PRES')) and (salary>5000);
5 • select last_name, job_id, salary from employees where ((job_id='SA REP') or (job_id='AD PRES')) and (salary>5000);

```

Result Grid

last_name	job_id	salary
King	AD_PRES	24000.00
Tucker	SA REP	10000.00
Bernstein	SA REP	9500.00
Hall	SA REP	9000.00
Olsen	SA REP	8000.00
Cambrault	SA REP	7500.00
Tuvault	SA REP	7000.00
King	SA REP	10000.00
Sully	SA REP	9500.00
McEwen	SA REP	9000.00
Smith	SA REP	8000.00
Doran	SA REP	7500.00
Seawall	SA REP	7000.00

employees 56 x

Sorting in ascending and descending order

```
1 • select last_name,job_id,department_id,hire_date from employees
2   order by hire_date;
```

Result Grid | Filter Rows: [] | Exports: [] | Wrap Cell Content: []

last_name	job_id	department_id	hire_date
King	AD_PRES	90	1987-06-17
Whalen	AD_ASST	10	1987-09-17
Kochhar	AD_VP	90	1989-09-21
Hunold	IT_PROG	60	1990-01-03
Ernst	IT_PROG	60	1991-05-21
De Haan	AD_VP	90	1993-01-13
Mavris	HR REP	40	1994-06-07
Baer	PR REP	70	1994-06-07
Higgins	AC_MGR	110	1994-06-07
Gietz	AC_ACCOUNT	110	1994-06-07
Faviet	FI_ACCOUNT	100	1994-08-16
Greenberg	FI_MGR	100	1994-08-17
Ranganathan	PII MAN	70	1994-12-07

employees 57 ×

```
1 • select last_name,job_id,department_id,hire_date from employees
2   order by hire_date DESC;
```

Result Grid | Filter Rows: [] | Exports: [] | Wrap Cell Content: []

last_name	job_id	department_id	hire_date
Banda	SA REP	80	2000-04-21
Kumar	SA REP	80	2000-04-21
Ande	SA REP	80	2000-03-24
Markle	ST_CLERK	50	2000-03-08
Lee	SA REP	80	2000-02-23
Philander	ST_CLERK	50	2000-02-06
Geoni	SH CLERK	50	2000-02-03
Zlotkey	SA MAN	80	2000-01-29
Marvins	SA REP	80	2000-01-24
Grant	SH CLERK	50	2000-01-13
Johnson	SA REP	80	2000-01-04
Perkins	SH CLERK	50	1999-12-19
GFP	ST CI FRK	50	1999-12-17

employees 58 ×

```
1 • select last_name,job_id,department_id,hire_date from employees
2   order by hire_date DESC;
3 • select last_name,department_id,salary*12 annualsal from employees
4   order by annualsal;
```

Result Grid | Filter Rows: [] | Exports: [] | Wrap Cell Content: []

last_name	department_id	annualsal
Olson	50	25200.00
Marde	50	26400.00
Philander	50	26400.00
Landry	50	28800.00
Gee	50	28800.00
Colmenares	30	30000.00
Marlow	50	30000.00
Patel	50	30000.00
Vargas	50	30000.00
Sullivan	50	30000.00
Perkins	50	30000.00
Himuro	30	31200.00
Mats	50	31200.00

Result 59 ×

A screenshot of MySQL Workbench showing a query results grid. The query is:

```
2 order by hire_date DESC;
3 select last_name,department_id,salary*12 annualsal from employees
4 order by annualsal;
5 select last_name,department_id,salary*12 annualsal from employees
6 order by annualsal,last_name desc;
```

The result grid displays the following data:

last_name	department_id	annualsal
Olson	50	25200.00
Philtanker	50	26400.00
Markle	50	26400.00
Landry	50	28800.00
Gee	50	28800.00
Vargas	50	30000.00
Sullivan	50	30000.00
Perkins	50	30000.00
Patel	50	30000.00
Marlow	50	30000.00
Colmenares	30	30000.00
O'Connell	50	31200.00
Matne	50	31200.00

Result 62 x

Aggregate functions

lower,upper,initcat,concat,substr,length,instr

A screenshot of MySQL Workbench showing a query results grid. The query is:

```
1 select employee_id,last_name from employees where last_name='higgins';
```

The result grid displays the following data:

employee_id	last_name
205	Higgins
NULL	NULL

employees 63 x

Output

```
1 • select employee_id, last_name from employees where last_name='higgins';
2 • select employee_id, lower(last_name) from employees;
3
4
5
```

employee_id	lower(last_name)
100	king
101	kochhar
102	de haan
103	hunold
104	ernst
105	austin
106	pataballa
107	lorentz
108	greenberg
109	faivet
110	chen
111	sciarra
112	irman

```
1 • select employee_id, last_name from employees where last_name='higgins';
2 • select employee_id, upper(last_name) from employees;
3
4
5
```

employee_id	upper(last_name)
100	KING
101	KOCHHAR
102	DE HAAN
103	HUNOLD
104	ERNST
105	AUSTIN
106	PATABALLA
107	LORENTZ
108	GREENBERG
109	FAVIET
110	CHEN
111	SCIARRA
112	IRMAN

ted. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

regions regions regions regions regions countries script_MYSQL hr_Schemas tx script_MYSQL employees

location_id
Indexes
Foreign Keys
Triggers
employees
Columns
employee_id
first_name
last_name
email
phone_number
hire_date
job_id
salary
commission_pct
manager_id

Action Output

Time Action

420 10:15:29 selected last_name,department_id,salary/12,annual_salary from employees 1 rows selected 0.000 ms

Query 1 hr-schema-mysql*

```
1 • select employee_id, last_name from employees where last_name='higgins';
2 • select employee_id, upper(last_name) from employees;
3 • select concat('hello', 'world')
4 ✘ select substr('helloworld', 1,5);
5 • select length('helloworld');
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

concat('hello','world')
helloworld

Query 1 hr-schema-mysql*

```
1 • select employee_id, last_name from employees where last_name='higgins';
2 • select employee_id, upper(last_name) from employees;
3 • select concat('hello', 'world')
4 ✘ select substr('helloworld', 1,5);
5 • select length('helloworld');
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

substr('helloworld',1,5)
hello

Query 1 hr-schema-mysql*

```
1 • select employee_id, last_name from employees where last_name='higgins';
2 • se Execute the selected portion of the script or everything, if there is no selection
3 • select concat('hello', 'world')
4 ✘ select substr('helloworld',1,5);
5 • select length('helloworld');
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

length('helloworld')
10

cal instance MySQL80 x

View Query Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
2 • select employee_id,upper(last_name) from employees;
3 • s Execute the selected portion of the script or everything, if there is no selection.
4 • select substr('helloworld',1,5);
5 • select length('helloworld');
6 • select instr('helloworld','w');
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

instr('helloworld','w')
6

replace,trim,lpad,rpad

Query Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
3 • select concat('hello','world')
4 • select substr('helloworld',1,5);
5 • select length('helloworld');
6 • select instr('helloworld','w');
7 • select replace('Jack and Jue','J','B1');
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

replace('Jack and Jue','J','B1')
Black and Blue

Query Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
4 • select substr('helloworld',1,5);
5 • select length('helloworld');
6 • select instr('helloworld','w');
7 • select replace('Jack and Jue','J','B1');
8 • select trim('h' from 'helloworld');
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

trim('h' from 'helloworld')
elloworld

```

5 •   select length('helloworld');
6 •   select instr('helloworld', 'w');
7 •   select replace('Jack and Jue', 'J', 'B1');
8 •   select trim('h' from'helloworld');
9 •   select lpad(salary,10,'') from employees;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

lpad(salary,10,'')
**24000.00
**17000.00
**17000.00
***9000.00
***6000.00
***4800.00
***4800.00
***4200.00
**12000.00
***9000.00
***8200.00
***7700.00
***7800.00

```

6 •   select instr('helloworld', 'w');
7 •   select replace('Jack and Jue', 'J', 'B1');
8 •   select trim('h' from'helloworld');
9 •   select lpad(salary,10,'') from employees;
10 •  select rpad(salary,15, '') from employees;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

rpad(salary,15,"")
24000.00*****
17000.00*****
17000.00*****
9000.00*****
6000.00*****
4800.00*****
4800.00*****
4200.00*****
12000.00*****
9000.00*****
8200.00*****
7700.00*****
7800.00*****

combining these

```

1 •   select employee_id,concat(first_name,last_name) Name,job_id,length(last_name),instr(last_name,'a') contains a?
2     from employees where
3       substr(job_id,4)='REP';

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

employee_id	Name	job_id	length(last_name)	contains a?
150	PeterTucker	SA_REP	6	0
151	DavidBernstein	SA_REP	9	0
152	PeterHall	SA_REP	4	2
153	ChristopherOlsen	SA_REP	5	0
154	NanetteCambrault	SA_REP	9	2
155	OliverTuvault	SA_REP	7	4
156	JanetteKing	SA_REP	4	0
157	PatrickSully	SA_REP	5	0
158	AllanMcEwen	SA_REP	6	0
159	LindseySmith	SA_REP	5	0
160	LouiseDoran	SA_REP	5	4
161	SarathSevall	SA_REP	6	4

```
2   from employees where
3     substr(job_id,4)='REP';
4 •  select upper(concat(substr(last_name,1,8),'_B84')) from employees where department_id=50;
```

Result Grid | Filter Rows: Export: Wrap Cell Contents: □

WEISS_B84
FRIPP_B84
KAULING_B84
VOLLMAN_B84
MOURGOS_B84
NAYER_B84
MIKKILIN_B84
LANDRY_B84
MARKLE_B84
BISSOT_B84
ATKINSON_B84
MARLOW_B84
OLSON_B84

Result 76 ×

Query 1 hr-schema-mysql*

```
1 •  select employee_id,concat(first_name,last_name) Name,job_id,length(last_name),instr(last_name,'a') 'contains a?'
2   from employees where
3     substr(job_id,4)='REP';
4 •  select upper(concat(substr(last_name,1,8),'_B84')) from employees where department_id=50;
5 •  select round(45.932,2) from dual;
```

Result Grid | Filter Rows: Export: Wrap Cell Contents: □

round(45.932,2)
45.93

instance MySQL80 ×

File Query Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
2   from employees where
3     substr(job_id,4)='REP';
4 •  select upper(concat(substr(last_name,1,8),'_B84')) from employees where department_id=50;
5 •  select round(45.932,2) from dual;
6 •  select round(45.935,2) from dual;
```

Result Grid | Filter Rows: Export: Wrap Cell Contents: □

round(45.935,2)
45.94

SQL80.x

Database Server Tools Scripting Help

Query 1 hr-schema-mysql*

```
3 substr(job_id,4)=REP;
4 select upper(concat(substr(last_name,1,8),'_B84')) from employees where department_id=50;
5 select round(45.932,2) from dual;
6 select round(45.935,2) from dual;
7 select round(45.933,2) from dual;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

round(45.933,2)
45.93

Query 1 hr-schema-mysql*

```
4 select upper(concat(substr(last_name,1,8),'_B84')) from employees where department_id=50;
5 select round(45.932,2) from dual;
6 select round(45.935,2) from dual;
7 select round(45.933,2) from dual;
8 select truncate(45.937,2) from dual;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

truncate(45.937,2)
45.93

Query 1 hr-schema-mysql*

```
4 select upper(concat(substr(last_name,1,8),'_B84')) from employees where department_id=50;
5 select round(45.932,2) from dual;
6 select round(45.935,2) from dual;
7 select round(45.933,2) from dual;
8 select mod(11,2) from dual;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

mod(11,2)
1

Query 1 hr-schema-mysql*

```
5 • select round(45.932,2) from dual;
6 • s Execute the selected portion of the script or everything, if there is no selection
7 • select round(45.933,2) from dual;
8
9 • select last_name,salary,mod(salary,5000) from employees where job_id='SA-REP';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

last_name	salary	mod(salary,5000)
King	50000	0

Query 1 hr-schema-mysql* Administration - Server Status

```
1 • select hire_date from employees;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

hire_date
1987-06-17
1989-09-21
1993-01-13
1990-01-03
1991-05-21
1997-06-25
1998-02-05
1999-02-07
1994-08-17
1994-08-16
1997-09-28
1997-09-30
1998-03-07

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631950503402#launchurl=Resources%2FLaunchICA%2FQloc...

10.1.33.06 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select employee_id, last_name, job_id, department_id from employees where hire_date='1993-01-13';
```

Result Grid | Filter Rows: [] Edit: [] Export/Imports: [] Wrap Cell Content: []

employee_id	last_name	job_id	department_id
102	2020_BB4De Haan	AD_VP	90

GCM_SH

employees 23 x

Re to search

Re to search

109 PM 9/18/2021 30°C Cloudy 13:08 18-09-2021

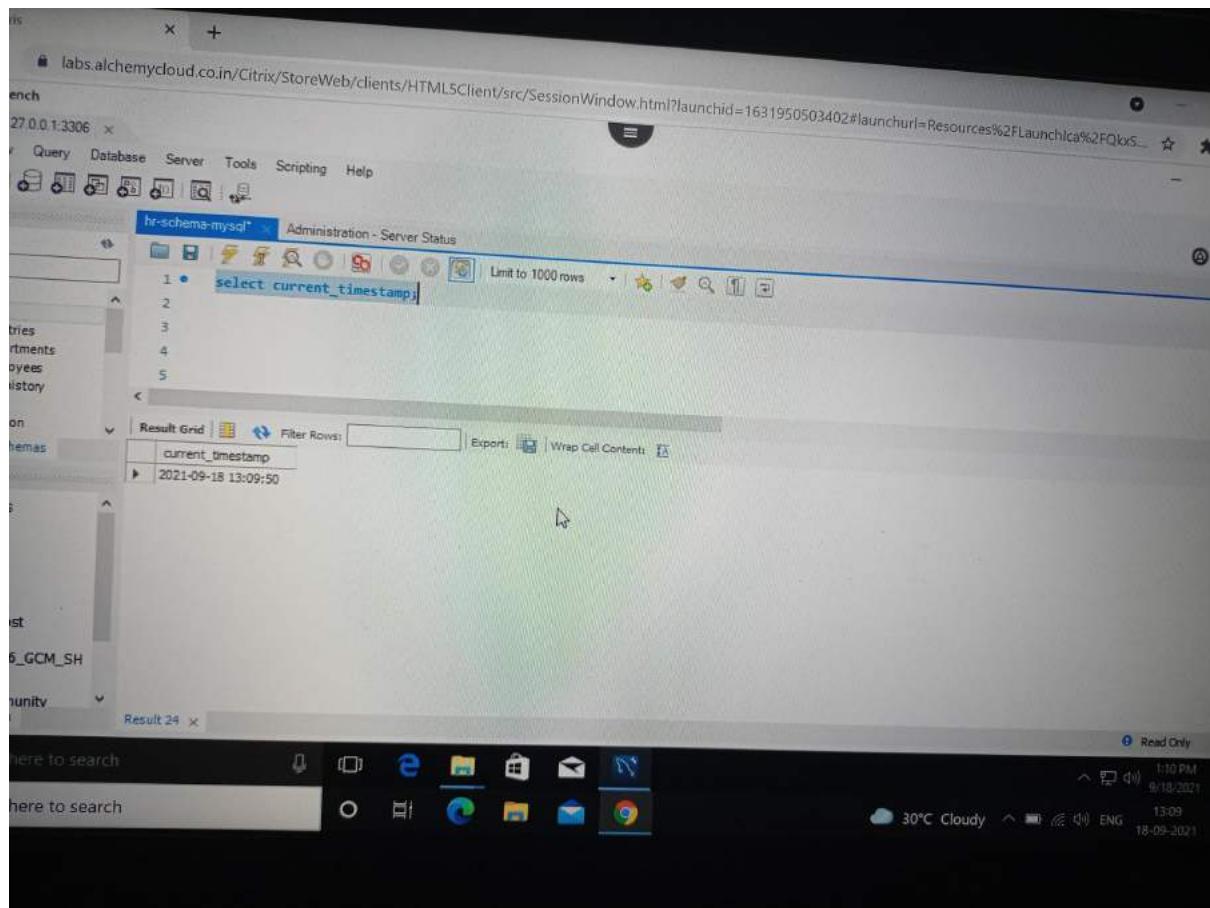
The screenshot shows a MySQL Workbench interface. A query window displays the following SQL code:

```
1 • select employee_id, last_name, job_id, department_id from employees where hire_date='1993-01-13';
```

The result grid shows one row of data:

employee_id	last_name	job_id	department_id
102	2020_BB4De Haan	AD_VP	90

The system tray at the bottom right shows the date as 9/18/2021, the time as 109 PM, the weather as 30°C Cloudy, and the date as 18-09-2021.



ich
10.0.1.3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select date_format(hire_date,'%W %D %Y') from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

	date_format(hire_date,'%W %D %M %Y')
1	Wednesday 17th June 1987
2	Thursday 21st September 1989
3	Wednesday 13th January 1993
4	Wednesday 3rd January 1990
5	Tuesday 21st May 1991
	Wednesday 25th June 1997
	Thursday 5th February 1998
	Sunday 7th February 1999
	Wednesday 17th August 1994
	Tuesday 16th August 1994
	Sunday 28th September 1997
	Tuesday 30th September 1997

Result 25 x Read Only

here to search

here to search

11:11 PM 9/18/2021 30°C Cloudy 13:10 ENG 18-09-2021

The screenshot shows a MySQL Workbench interface. A query window displays the following SQL code:

```
1 • select date_format(hire_date,'%W %D %Y') from employees;
```

The results are shown in a grid:

	date_format(hire_date,'%W %D %M %Y')
1	Wednesday 17th June 1987
2	Thursday 21st September 1989
3	Wednesday 13th January 1993
4	Wednesday 3rd January 1990
5	Tuesday 21st May 1991
	Wednesday 25th June 1997
	Thursday 5th February 1998
	Sunday 7th February 1999
	Wednesday 17th August 1994
	Tuesday 16th August 1994
	Sunday 28th September 1997
	Tuesday 30th September 1997

The status bar at the bottom right indicates the time as 11:11 PM, the date as 9/18/2021, the weather as 30°C Cloudy, the system time as 13:10, the language as ENG, and the date as 18-09-2021.

MySQL@127.0.0.1:3306

View Query Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

Tables: countries, departments, employees, job_history, jobs, location

Details: 0.1

localhost S_256_GCM_SH

Community Session Result 26

```
1 • select date_format(hire_date,'%W %D %M %Y') from employees where date_format(hire_date,'%Y')=1994;
```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

	date_format(hire_date,'%W %D %M %Y')
1	Wednesday 17th August 1994
2	Tuesday 16th August 1994
3	Wednesday 7th December 1994
4	Tuesday 7th June 1994
5	Tuesday 7th June 1994
6	Tuesday 7th June 1994
7	Tuesday 7th June 1994

Type here to search

Windows Taskbar: e, File, Start, Search, Chrome, Edge, Mail, File Explorer, Cloud, 30°C Cloudy, ENG

Aggregated data using group function

AVG
count
max
min
sum

MySQL@127.0.0.1:3306

View Query Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

Tables: countries, departments, employees, job_history, jobs, location

Details: 0.1

localhost S_256_GCM_SH

Community Session Result 13

```
8
9 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=90;
10 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 • select min(hire_date),max(hire_date) from employees where department_id=50;
12 • select count(*) from employees where department_id=50;
13 • select max(salary) from employees where job_id like '%REP%';
14 • select count(*) from employees;
15 • select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

	avgsal	maxsal	minsal	sum(salary)	department_id
1	19333.333333	24000.00	17000.00	580000.00	90

Type here to search

Windows Taskbar: e, File, Start, Search, Chrome, Edge, Mail, File Explorer, Cloud, 28°C Rain showers, 9:53 AM, 9/14/2021, ENG, 09:53, 14-09-2021

hr-schema-mysql Administration - Server Status

```
8
9 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=60;
10 •  select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 •  select min(hire_date),max(hire_date) from employees where department_id=50;
12 •  select count(*) from employees where department_id=50;
13 •  select max(salary) from employees where job_id like '%REP%';
14 •  select count(*) from employees;
15 •  select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

avgsal	maxsal	minsal	sum(salary)	department_id
3475.555556	8200.00	2100.00	156400.00	50

SH Read Only

```
8
9 •  s Execute the selected portion of the script or everything, if there is no selection
10 •  select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=60;
11 •  select min(hire_date),max(hire_date) from employees where department_id=50;
12 •  select count(*) from employees where department_id=50;
13 •  select max(salary) from employees where job_id like '%REP%';
14 •  select count(*) from employees;
15 •  select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

min(hire_date)	max(hire_date)
1995-05-01	2000-03-08

Result 15 x 9:54 AM 9/14/2021 09:54 search ENG 14.09.2021

```
8
9 •  select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=60;
10 •  select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 •  select min(hire_date),max(hire_date) from employees where department_id=50;
12 •  select count(*) from employees where department_id=50;
13 •  select max(salary) from employees where job_id like '%REP%';
14 •  select count(*) from employees;
15 •  select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

count(*)
45

hr-schema-mysql* Administration - Server Status

```
8
9 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=90;
10 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 • select min(hire_date),max(hire_date) from employees where department_id=50;
12 • select count(*) from employees where department_id=50;
13 • select max(salary) from employees where job_id like '%REPS%';
14 • select count(*) from employees;
15 • select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

max(salary)
11500.00

hr-schema-mysql* Administration - Server Status

```
8
9 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=90;
10 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 • select min(hire_date),max(hire_date) from employees where department_id=50;
12 • select count(*) from employees where department_id=50;
13 • select max(salary) from employees where job_id like '%REPS%';
14 • select count(*) from employees;
15 • select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

count(*)
107

hr-schema-mysql* Administration - Server Status

```
8
9 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=90;
10 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 • select min(hire_date),max(hire_date) from employees where department_id=50;
12 • select count(*) from employees where department_id=50;
13 • select max(salary) from employees where job_id like '%REPS%';
14 • select count(*) from employees;
15 • select employee_id, commission_pct from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

employee_id	commission_pct
100	HULL
101	HULL
102	HULL
103	HULL
104	HULL
105	HULL
106	HULL
107	HULL
108	HULL

New Query Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

```
18 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees where department_id=50;
11 • s| Execute the selected portion of the script or everything, if there is no selection; department_id=50;
12 • select count(*) from employees where department_id=50;
13 • select max(salary) from employees where job_id like '%REP%';
14 • select count(*) from employees;
15 • select employee_id, commission_pct from employees;
16
17 • select count(commission_pct) from employees;
```

Schemas

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

	count(commission_pct)
	35

host

56_GCM_SH

Read Only

hr-schema-mysql Administration - Server Status

```
11 • select min(hire_date),max(hire_date) from employees where department_id=50;
12 • select count(*) from employees where department_id=50;
13 • select max(salary) from employees where job_id like '%REP%';
14 • select count(*) from employees;
15 • select employee_id, commission_pct from employees;
16
17 • select count(commission_pct) from employees;
18 • select count(commission_pct>0) from employees;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

	count(commission_pct>0)
	35

hr-schema-mysql Administration - Server Status

```
13 • select max(salary) from employees where job_id like '%REP%';
14 • s| Execute the selected portion of the script or everything, if there is no selection;
15 • select employee_id, commission_pct from employees;
16
17 • select count(commission_pct) from employees;
18 • select count(commission_pct>0) from employees;
19
20 • select employee_id,department_id from employees;
```

Schemas

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

employee_id	department_id
178	10
200	10
201	20
202	20
114	30
115	30
116	30
117	30
118	30

host

_GCM_SH

employees 22 x

Administration - Server Status

```
14 •   select count(*) from employees;
15 •   s Execute the selected portion of the script or everything, if there is no selection
16
17 •   select count(commission_pct) from employees;
18 •   select count(commission_pct>0) from employees;
19
20 •   select employee_id,department_id from employees;
21 •   select distinct department_id from employees;
```

Schemas

Employees

Host

56_GCM_SH

on

employees 23 ×

Result Grid | Filter Rows: Export: Wrap Cell Content:

department_id
NULL
10
20
30
40
50
60
70
80

Administration - Server Status

```
16
17 •   select count(commission_pct) from employees;
18 •   select count(commission_pct>0) from employees;
19
20 •   select employee_id,department_id from employees;
21 •   select distinct department_id from employees;
22
23 •   select count(distinct department_id) from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

count(distinct department_id)
11

Administration - Server Status

```
19 •   select distinct department_id from employees;
20
21 •   select count(distinct department_id) from employees;
22
23 •   select avg(commission_pct) from employees;
24
25
26
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

avg(commission_pct)
0.222857

```
18 •      select employee_id,department_id from employees;
19 •      select distinct department_id from employees;
20
21 •      select count(distinct department_id) from employees;
22
23 •      select avg(commission_pct) from employees;
24 •      select employee_id,commission_pct from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: I

	employee_id	commission_pct
▶	100	NULL
	101	NULL
	102	NULL
	103	NULL
	104	NULL
	105	NULL
	106	NULL
	107	NULL
	108	NULL

employees 26 ×

to search

```
19 •      select distinct department_id from employees;
20
21 •      select count(distinct department_id) from employees;
22
23 •      select avg(commission_pct) from employees;
24 •      select employee_id,commission_pct from employees;
25
26 •      select (sum(commission_pct)/count(*)) average from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: I

	average
▶	0.072897

```
19 •      select distinct department_id from employees;
20
21 •      select count(distinct department_id) from employees;
22
23 •      select avg(commission_pct) from employees;
24      select (sum(commission_pct)/count(*)) average from employees;
25 •      select (sum(commission_pct)/count(commission_pct)) average from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: I

	average
▶	0.222857

Result 31 ×

1. to find total salary paid department wise

group by is clause is used

2.we cannot use where clause to restrict group functions ie we cannot use group functions with where clause

3.we can use HAVING clause to restrict group functions

```
20
21 • select count(distinct department_id) from employees;
22
23 • select avg(commission_pct) from employees;
24 select (sum(commission_pct)/count(*)) average from employees;
25 • select (sum(commission_pct)/count(commission_pct)) average from employees;
26
27 • select department_id,sum(salary) from employees group by department_id;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

department_id	sum(salary)
NULL	7000.00
10	4400.00
20	19000.00
30	24900.00
40	6500.00
50	156400.00
60	28800.00
70	10000.00
80	304500.00

```
22
23 • select avg(commission_pct) from employees;
24 select (sum(commission_pct)/count(*)) average from employees;
25 • select (sum(commission_pct)/count(commission_pct)) average from employees;
26
27 • select department_id,sum(salary) from employees group by department_id;
28
29 • select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees group by department_id=90;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

avgsal	maxsal	minsal	sum(salary)	department_id
19333.333333	24000.00	17000.00	58000.00	90
6081.553398	14000.00	2100.00	626400.00	60
7000.000000	7000.00	7000.00	7000.00	NULL

```

23 •   select avg(commission_pct) from employees;
24   select (sum(commission_pct)/count(*)) average from employees;
25 •   select (sum(commission_pct)/count(commission_pct)) average from employees;
26
27 •   select department_id,sum(salary) from employees group by department_id;
28
29 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees group by department_id>90;
30 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary), (department_id>40) from employees group by department_id>40;

```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Contents: []

avgsal	maxsal	minsal	sum(salary)	(department_id>40)
7000.000000	7000.00	7000.00	7000.00	NULL
4400.000000	4400.00	4400.00	4400.00	0
9500.000000	13000.00	6000.00	19000.00	0
4150.000000	11000.00	2500.00	24900.00	0
6500.000000	6500.00	6500.00	6500.00	0
3475.555556	8200.00	2100.00	156400.00	1
5760.000000	9000.00	4200.00	28800.00	1
10000.000000	10000.00	10000.00	10000.00	1
8955.882353	14000.00	6100.00	304500.00	1

Result 34 x

10:20 AM 9/14/2021 10:19 28°C Rain showers ENG 14-09-2021

```

27 •   select department_id,sum(salary) from employees group by department_id;
28
29 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees group by department_id>90;
30 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary), (department_id>40) from employees group by department_id>40;
31 •   select sum(salary),department_id from employees
32   group by department_id
33   order by department_id desc;

```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Contents: []

sum(salary)	department_id
20300.00	110
51600.00	100
58000.00	90
304500.00	80
10000.00	70
28800.00	60
156400.00	50
6500.00	40
24900.00	30

Result 35 x

10:22 AM 9/14/2021 10:22 ENG

```

26 •   select department_id,sum(salary) from employees group by department_id;
27
28 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees
29 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary), (department_id>40) from employees
30 •   select sum(salary),department_id from employees
31   group by department_id
32   order by department_id desc;
33 •   select department_id, count(last_name) from employees;

```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Contents: []

department_id	count(last_name)
90	107

```
29 •   execute the selected portion of the script or everything, if there is no selection |sal ,sum(salary),department_id from employees group by department_id having sum(salary) > 10000;
30 •   select sum(salary),department_id from employees
31   group by department_id
32   order by department_id desc;
33 •   select department_id, count(last_name) from employees;
34 •   select count(last_name) from employees where department_id=90;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

count(last_name)
3

Result 37 x

```
28 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees group by department_id=90;
29 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),(department_id>40) from employees group by department_id;
30 •   select sum(salary),department_id from employees
31   group by department_id
32   order by department_id desc;
33
34 •   select count(last_name) from employees where department_id=90;
35 •   select department_id, count(last_name) from employees group by department_id;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

department_id	count(last_name)
90	1
10	1
20	2
30	6
40	1
50	45
60	5
70	1
80	34

Result 38 x

```
29 •   select avg(salary) avgsal ,max(salary) maxsal ,min(salary) minsal ,sum(salary),department_id from employees group by department_id;
30 •   select sum(salary),department_id from employees
31   group by department_id
32   order by department_id desc;
33
34 •   select count(last_name) from employees where department_id=90;
35 •   select department_id, count(last_name) from employees group by department_id;
36 •   select department_id,manager_id, count(last_name) from employees group by manager_id;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

department_id	manager_id	count(last_name)
90	NULL	1
90	100	14
100	101	5
60	102	1
60	103	4
100	108	5
30	114	5
50	120	8
50	121	8

Result 39 x

hr-schemas-mysql> Administration - Server Status

```
33
34 •   select count(last_name) from employees where department_id=90;
35 •   select department_id, count(last_name) from employees group by department_id;
36 •   select department_id,manager_id, count(last_name) from employees group by manager_id;
37
38 •   select sum(salary),department_id from employees
39   group by department_id
40
41
42
43
44
45
46
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

sum(salary)	department_id
7000.00	NULL
4400.00	10
19000.00	20
24900.00	30
6500.00	40
156400.00	50
28800.00	60
10000.00	70
304500.00	80

Result 40 ×

having

```
35 •   select department_id, count(last_name) from employees where department_id=90;
36 •   select department_id,manager_id, count(last_name) from employees group by manager_id;
37
38 •   select sum(salary),avg(salary),department_id from employees
39   group by department_id
40   having avg(salary)>8000 ;
41
42
43
44
45
46
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

sum(salary)	avg(salary)	department_id
19000.00	9500.000000	20
10000.00	10000.000000	70
304500.00	8955.882353	80
58000.00	19333.333333	90
51600.00	8600.000000	100
20300.00	10150.000000	110

Result 41 ×

```
41
42 •   select department_id,max(salary) from employees
43   group by department_id
44   having max(salary)>10000;
45
46
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

department_id	max(salary)
20	13000.00
30	11000.00
80	14000.00
90	24000.00
100	12000.00
110	12000.00

Result 42 ×

```
41
42 •   select department_id,max(salary) from employees
43     group by department_id
44     having max(salary)>10000;
45
46 •   select job_id,sum(salary) totalsal from employees
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

job_id	totalsal
AC_ACCOUNT	8300.00
AC_MGR	12000.00
AD_ASST	4400.00
AD_PRES	24000.00
AD_VP	34000.00
FI_ACCOUNT	39600.00
FI_MGR	12000.00
IT_PROG	28800.00
MK_MAN	13000.00

Result 43 ×



```
49
50 •   select job_id,sum(salary) totalsal from employees
51     where job_id NOT like '%REP%'
52     group by job_id
53     having sum(salary)>=12000;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

job_id	totalsal
AC_MGR	12000.00
AD_PRES	24000.00
AD_VP	34000.00
FI_ACCOUNT	39600.00
FI_MGR	12000.00
IT_PROG	28800.00
MK_MAN	13000.00
PU_CLERK	13900.00
SA_MAN	61000.00

Result 44 ×



```
49
50 •   select job_id,sum(salary) totalsal from employees
51     where job_id NOT like '%REP%'
52     group by job_id
53     having sum(salary)>=12000
54     order by sum(salary) desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

job_id	totalsal
SH_CLERK	64300.00
SA_MAN	61000.00
ST_CLERK	55700.00
FI_ACCOUNT	39600.00
ST_MAN	36400.00
AD_VP	34000.00
IT_PROG	28800.00
AD_PRES	24000.00
PU_CLERK	13900.00

Result 45 ×



The screenshot shows a MySQL query window with the following code:

```
56 •    select avg(salary) from employees
57     group by department_id;
58
```

The result grid displays the average salary for each department:

avg(salary)
7000.000000
4400.000000
9500.000000
4150.000000
6500.000000
3475.555556
5760.000000
10000.000000
8955.882353

Below the window, the Windows taskbar is visible, showing icons for File Explorer, Edge, File Explorer, and Google Chrome.

Subqueries

1. innermost query is executes before the outer query
2. the result o fthe inner subquery is used by the outer query.

The screenshot shows a MySQL query window with the following code:

```
1 •    select last_name from employees;
2
3 •    select salary from employees
4      where last_name='Ernst';
```

The result grid displays the last names of employees whose last name is 'Ernst':

last_name
King
Kochhar
De Haan
Hunold
Ernst
Austin
Pataballa
Lorentz
Greenberg

Below the window, the Windows taskbar is visible, showing icons for File Explorer, Edge, File Explorer, and Google Chrome.

```
2  
3 •   select salary from employees  
4     where last_name='Ernst';
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

	salary
▶	6000.00

employees 48 × 11:48 AM 9/14/2022 11:48 28°C Rain showers ENG 14-09-202

```
6 •   select employee_id, last_name, salary from employees  
7     where salary >(select salary from employees where last_name='Ernst');
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

	employee_id	last_name	salary
▶	100	King	24000.00
	101	Kochhar	17000.00
	102	De Haan	17000.00
	103	Hunold	9000.00
	108	Greenberg	12000.00
	109	Faviet	9000.00
	110	Chen	8200.00
	111	Sciarrra	7700.00
	112	Urman	7800.00

employees 49 × 11:48 AM 9/14/2022 11:48 28°C Rain showers ENG 14-09-202

hemmycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631943058710#launchurl=Resources%2FLaunchica%2FQkxS... 

base Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;
2 • select avg(salary) sal from employees group by department_id order by avg(salary) desc;

Result Grid | Filter Rows: Export: Wrap Cell Contents:                    

sal
19333.333333
10150.000000
10000.000000
9500.000000
8955.882353
8600.000000
7000.000000
6500.000000
5760.000000

Result 1 ×

11:04 AM 9/16/2021 11:04 30°C Cloudy ENG 18-09-2021

Search                   

9 • select max(sal) from (select avg(salary) sal from employees group by department_id) as result;

Result Grid | Filter Rows: Export: Wrap Cell Contents:                    

max(sal)
19333.333333

Result 51 ×

11:04 AM 9/16/2021 11:04 28°C Rain showers        

Schemas: employees

Session: AES_256_GCM_SH

Employees 52

Type here to search

Result Grid | Filter Rows: Export: Wrap Cell Content:

last_name
King
Kochhar
De Haan
Hunold
Ernst
Austin
Pataballa
Lorentz
Greenberg
Faviet
Chen
Scarra
Urmston

12.17 PM 9/14/2023 28°C Rain showers 12:17 ENG 14-09-2021

```
12
13
14 • select last_name from employees;
15 • select salary from employees where last_name='Ernst';
16 • select job_id from employees where last_name='Ernst';
```

Schemas: employees

Session: AES_256_GCM_SH

Employees 53

Type here to search

Result Grid | Filter Rows: Export: Wrap Cell Content:

salary
6000.00

12.17 PM 9/14/2023 28°C Rain showers 12:17 ENG 14-09-2021

```
11
12
13
14 • select last_name from employees;
15 • select salary from employees where last_name='Ernst';
```

Schemas: employees

Session: AES_256_GCM_SH

Employees 54

Type here to search

Result Grid | Filter Rows: Export: Wrap Cell Content:

job_id
IT_PROG

12.17 PM 9/14/2023 28°C Rain showers 12:17 ENG 14-09-2021

```
12
13 Execute the selected portion of the script or everything, if there is no selection
14 • select last_name from employees;
15 • select salary from employees where last_name='Ernst';
16 • select job_id from employees where last_name='Ernst';
```

hr-schema-mysql* Administration - Server Status

```
1 • use hr;
2 • select employee_id, last_name, salary, job_id from employees
3 where job_id=(select job_id from employees where last_name='Ernst'));
```

Result Grid | Filter Rows: [] | Edit: [] | Export/Import: [] | Wrap Cell Content: []

employee_id	last_name	salary	job_id
103	Hunold	9000.00	IT_PROG
104	Ernst	6000.00	IT_PROG
105	Austin	4800.00	IT_PROG
106	Pataballa	4800.00	IT_PROG
107	Lorentz	4200.00	IT_PROG

employees 2 x

11:08 AM 9/18/2021 30°C Cloudy 11:07 ENG 18-09-2021

This screenshot shows the MySQL Workbench interface. The top window displays a SQL query in the editor pane:1 • use hr;
2 • select employee_id, last_name, salary, job_id from employees
3 where job_id=(select job_id from employees where last_name='Ernst'));The results are shown in a grid below, titled "Result Grid". The columns are "employee_id", "last_name", "salary", and "job_id". The data shows five rows of employees. The bottom part of the screen shows the Windows taskbar with various icons and system status information.

hr-schema-mysql* Administration - Server Status

```
15 • select salary from employees where last_name='Ernst';
16 • select job_id from employees where last_name='Ernst';
17 • select employee_id, last_name, salary, job_id from employees
18 where(job_id =(select job_id from employees where last_name='Ernst'))
19 and salary > (select salary from employees where last_name='Austin'));
```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

employee_id	last_name	salary	job_id
103	Hunold	9000.00	IT_PROG
104	Ernst	6000.00	IT_PROG

This screenshot shows the MySQL Workbench interface. The top window displays a more complex SQL query in the editor pane:15 • select salary from employees where last_name='Ernst';
16 • select job_id from employees where last_name='Ernst';
17 • select employee_id, last_name, salary, job_id from employees
18 where(job_id =(select job_id from employees where last_name='Ernst'))
19 and salary > (select salary from employees where last_name='Austin'));The results are shown in a grid below, titled "Result Grid". The columns are "employee_id", "last_name", "salary", and "job_id". The data shows two rows of employees, Hunold and Ernst, whose salaries are greater than Austin's salary. The bottom part of the screen shows the Windows taskbar with various icons and system status information.

```
15 •   select salary from employees where last_name='Ernst';
16 •   select job_id from employees where last_name='Ernst';
17
18
19 •   select employee_id, last_name, job_id, salary from employees
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

	employee_id	last_name	job_id	salary
▶	132	Olson	ST_CLERK	2100.00

Schemas Details

calhost

S_256_GCM_SH session employees 56 ×

Click here to search

This screenshot shows the Oracle SQL Developer interface. A query has been run to select employee details for employees named 'Ernst'. The results are displayed in a grid with columns: employee_id, last_name, job_id, and salary. One row is shown, corresponding to employee_id 132, last_name Olson, job_id ST_CLERK, and salary 2100.00.

```
17
18
19 •   select employee_id, last_name, job_id, salary from employees
20   where salary=(select min(salary) from employees);
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

	employee_id	last_name	job_id	salary
▶	132	Olson	ST_CLERK	2100.00

employees 57 ×

This screenshot shows the Oracle SQL Developer interface. A query has been run to find the employee with the minimum salary. The results are displayed in a grid with columns: employee_id, last_name, job_id, and salary. One row is shown, corresponding to employee_id 132, last_name Olson, job_id ST_CLERK, and salary 2100.00.

```
21
22 •   select min(salary) from employees where department_id=50;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

min(salary)
▶ 2100.00

This screenshot shows the Oracle SQL Developer interface. A query has been run to find the minimum salary for employees in department 50. The results are displayed in a grid with one column: min(salary). One row is shown, with the value 2100.00.

```
24 •   select department_id,min(salary) from employees  
25   group by department_id  
26   having min(salary)>(select min(salary) from employees where department_id=50);
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

department_id	min(salary)
NULL	7000.00
10	4400.00
20	6000.00
30	2500.00
40	6500.00
60	4200.00
70	10000.00
80	6100.00
90	17000.00
100	6900.00
110	8300.00

```
24 •   select department_id,min(salary) from employees  
25   group by department_id  
26   having min(salary)>(select min(salary) from employees where department_id=70);
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

department_id	min(salary)
90	17000.00

hr-schema-mysql* Administration - Server Status

```
1 •   select min(salary) from employees group by department_id;  
2  
3 •   select employee_id,last_name from employees  
4   where salary=(select min(salary) from employees group by department_id);  
5
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

min(salary)
7000.00
4400.00
6000.00
2500.00
6500.00
2100.00
4200.00
10000.00
6100.00
17000.00
6900.00
8300.00

Result 62 x 12:41

```

6 •   select employee_id, last_name from employees
7     where salary IN (select min(salary) from employees group by department_id);

```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

	employee_id	last_name
▶	101	Kochhar
	102	De Haan
	104	Ernst
	107	Lorentz
	113	Popp
	119	Colmenares
	123	Vollman
	131	Marlow
	132	Olson
	140	Patel
	144	Vargas
	150	Tucker
	155	Tuvault

employees 63 ×

inner join ,union

```

1 •   show columns from employees;
2 •   select employee_id, last_name, location_id, employees.department_id from employees
      INNER JOIN departments ON departments.department_id=employees.department_id;
3
4
5 •   select employee_id, job_id from employees
6     union
7     select employee_id, job_id from job_history;
8

```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

	employee_id	last_name	location_id	department_id
▶	103	Hunold	1400	60
	104	Ernst	1400	60
	105	Austin	1400	60
	106	Pataballa	1400	60
	107	Lorentz	1400	60
	120	Weiss	1500	50
	121	Fripp	1500	50
	122	Kaufung	1500	50
	123	Vollman	1500	50

Result 10 Result 11 ×

```

4
5 •   select employee_id, job_id from employees
6     union
7     select employee_id, job_id from job_history;
8

```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

	employee_id	job_id
▶	206	AC_ACCOUNT
	205	AC_MGR
	200	AD_ASST
	100	AD_PRE
	101	AD_VP
	102	AD_VP
	109	FI_ACCOUNT
	110	FI_ACCOUNT
	111	FI_ACCOUNT

Result 12 ×

27.0.0.1:3306 ×

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select e.employee_id,e.last_name,d.department_id,d.department_name from employees e
2 left join departments d on e.department_id=d.department_id
3 union all
4 select e.employee_id,e.last_name,d.department_id,d.department_name from employees e
5 right join departments d on e.department_id=d.department_id
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

employee_id	last_name	department_id	department_name
100	2020_B84King	90	Executive
101	2020_B84Kochhar	90	Executive
102	2020_B84De Haan	90	Executive
103	Hunold	60	IT
104	Ernst	60	IT
105	Austin	60	IT
106	Pataballa	60	IT
107	Lorentz	60	IT
108	Greenberg	100	Finance
109	Faviet	100	Finance
110	Chen	100	Finance
111	Sclarra	100	Finance
112	Irmam	100	Finance

Result 27 ×

Be here to search

Be here to search

1:33 PM 9/18/2021 30°C Cloudy 13:32 ENG 18-09-2021

```
5
6 • select salary from employees where job_id='IT_PROG';
7 • select employee_id,last_name,salary from employees where job_id='IT_PROG';
8
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

salary
9000.00
6000.00
4800.00
4800.00
4200.00

```
6 •   select salary from employees where job_id='IT_PROG';
7 •   select employee_id,last_name,salary from employees where job_id='IT_PROG';

Result Grid | Filter Rows: Export: Wrap Cell Content:
employee_id last_name salary
▶ 103 Hunold 9000.00
104 Ernst 6000.00
105 Austin 4800.00
106 Pataballa 4800.00
107 Lorentz 4200.00
```

```
10 •   select employee_id,salary from employees
11     where salary < ANY (select salary from employees where job_id = 'IT_PROG')
12
13 •   select employee_id,salary from employees

Result Grid | Filter Rows: Export: Wrap Cell Content:
employee_id salary
▶ 104 6000.00
105 4800.00
106 4800.00
107 4200.00
110 8200.00
111 7700.00
112 7800.00
113 6900.00
115 3100.00
116 2900.00
117 2800.00
118 2600.00
119 2500.00
```

```
12
13 •   select employee_id,salary from employees
14     where salary < ANY (select salary from employees where job_id ='xxxx')

Result Grid | Filter Rows: Export: Wrap Cell Content:
employee_id salary
```

```

16 •   select employee_id,salary from employees
17     where salary >ALL (select salary from employees where job_id = 'IT_PROG');

```

Result Grid | Filter Rows: Export: Wrap Cell Content:

employee_id	salary
100	24000.00
101	17000.00
102	17000.00
108	12000.00
114	11000.00
145	14000.00
146	13500.00
147	12000.00
148	11000.00
149	10500.00
150	10000.00
151	9500.00
156	10000.00

inner join

3306

My Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```

1 •   select e.employee_id,e.first_name,j.job_title,e.job_id from employees e inner join jobs j where e.job_id=j.job_id;
2

```

Result Grid | Filter Rows: Export: Wrap Cell Content:

employee_id	first_name	job_title	job_id
206	William	Public Accountant	AC_ACCOUNT
205	Shelley	Accounting Manager	AC_MGR
200	Jennifer	Administration Assistant	AD_ASST
100	Steven	President	AD_PRES
101	Neena	Administration Vice President	AD_VP
102	Lex	Administration Vice President	AD_VP
109	Daniel	Accountant	FI_ACCOUNT
110	John	Accountant	FI_ACCOUNT
111	Ismael	Accountant	FI_ACCOUNT
112	Jose Manuel	Accountant	FI_ACCOUNT
113	Luis	Accountant	FI_ACCOUNT
108	Nancy	Finance Manager	FI_MGR
201	Susan	Human Resources Representative	HR_RP

3306 ×

Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • select * from employees;

2 • select * from departments;

3 • select * from jobs;

4 • select * from job_history;

5

Result Grid | Filter Rows: [] | Edit: [] | Export/Import: [] | Wrap Cell Contents: []

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	2020_B8#King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	NULL	NULL	90
101	Neena	2020_B8#Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00	NULL	100	90
102	Lex	2020_B8#De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00	NULL	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-01	IT_PROG	9000.00	NULL	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00	NULL	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00	NULL	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NULL	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00	NULL	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00	NULL	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00	NULL	108	100
110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00	NULL	108	100
111	Ismael	Sciarrra	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00	NULL	108	100
112	Tino	Manuel	TMIRMAN	515.124.4469	1998-01-07	FI_ACCOUNT	7800.00	NULL	103	100

employees 6 ×

to search

to search

11:31 AM 9/18/2021

30°C Cloudy 11:31 18-09-2021

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631943058710#launchurl=Resources%2FLaunchica%2FOkrS...

17.0.0.1:3306 ×

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

Limit to 1000 rows

```
1 • select * from employees;
2 • select * from departments;
3 • select * from jobs;
4 • select * from job_history;
```

procedures 10

Schemas

	department_id	department_name	manager_id	location_id
10	Administration	200	1700	
20	Marketing	201	1800	
30	Purchasing	114	1700	
40	Human Resources	203	2400	
50	Shipping	121	1500	
60	IT	103	1400	
70	Public Relations	204	2700	
80	Sales	145	2500	
90	Executive	100	1700	
100	Finance	108	1700	
110	Accounting	205	1700	
120	Treasury	101	1700	
130	Corporate Tax	107	1700	

Result Grid Filter Rows Edit: Export/Import: Wrap Cell Contents:

departments 7

Type here to search

Cloud 30°C Cloudy ENG

Type here to search

bs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631943058710#launchurl=Resources%2FLaunchICA%2FQbS...

06 ×

Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select * from employees;
2 • select * from departments;
3 • select * from jobs;
4 • select * from job_history;
```

Result Grid | Filter Rows: [] | Edit: [] Export/Import: [] Wrap Cell Content: []

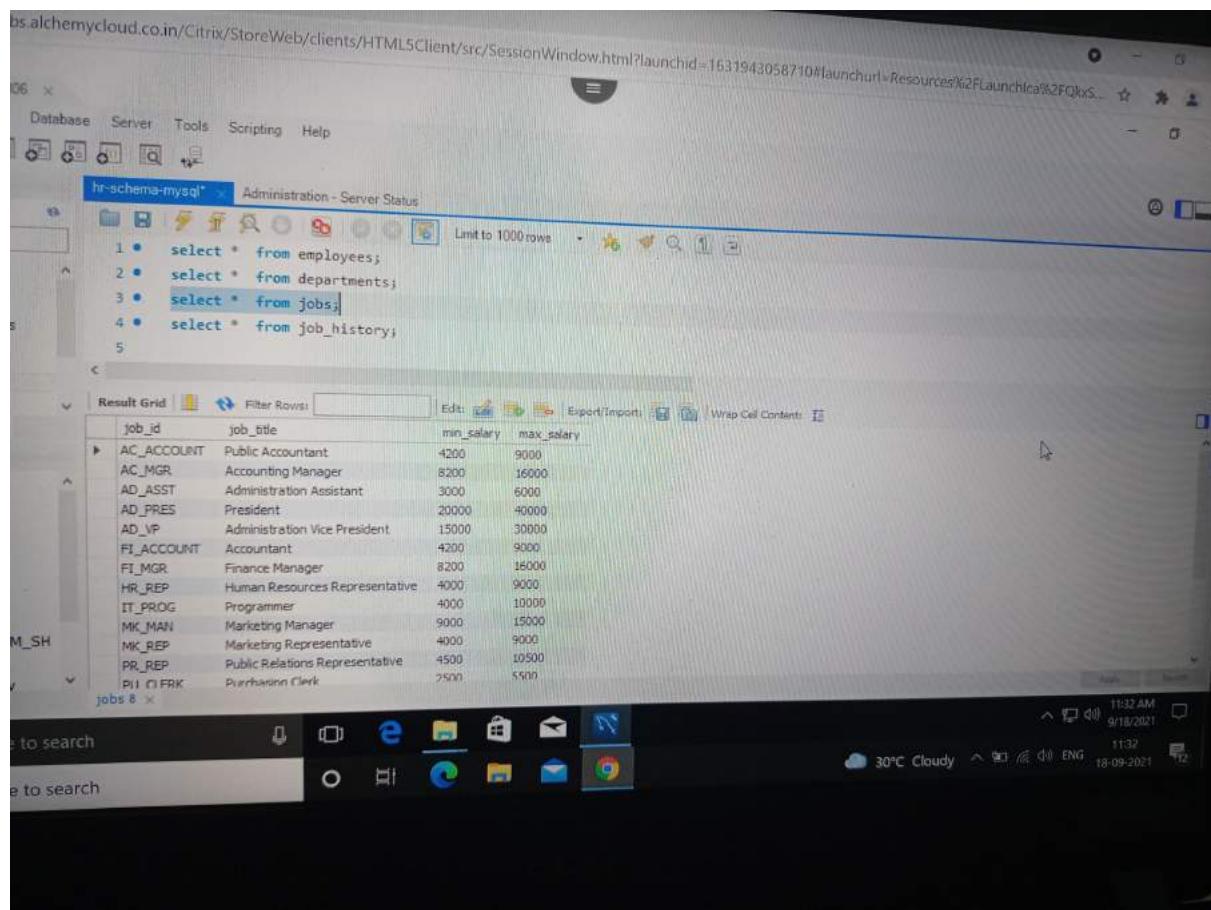
job_id	job_title	min_salary	max_salary
AC_ACCOUNT	Public Accountant	4200	9000
AC_MGR	Accounting Manager	8200	16000
AD_ASST	Administration Assistant	3000	6000
AD_PRES	President	20000	40000
AD_VP	Administration Vice President	15000	30000
FI_ACCOUNT	Accountant	4200	9000
FI_MGR	Finance Manager	8200	16000
HR_REP	Human Resources Representative	4000	9000
IT_PROG	Programmer	4000	10000
MK_MAN	Marketing Manager	9000	15000
MK_REP	Marketing Representative	4000	9000
PR_REP	Public Relations Representative	4500	10500
PII_CFRK	Purchasing Clerk	2500	5500

jobs 8 ×

to search

to search

11:32 AM 9/18/2021 11:32 30°C Cloudy 18-09-2021



The screenshot shows a MySQL Workbench interface. In the top-left corner, there's a browser tab with the URL: <http://127.0.0.1:13306/>. Below it, the MySQL Workbench menu bar includes: File, Database, Server, Tools, Scripting, Help. The main area has a title bar "hr-schema-mysql*" and a sub-title "Administration - Server Status". A query editor window displays the following SQL code:

```
1 • select * from employees;
2 • select * from departments;
3 • select * from jobs;
4 • select * from job_history;
```

The "Result Grid" tab is selected, showing the results of the last query (select * from job_history). The results are as follows:

employee_id	start_date	end_date	job_id	department_id
101	1989-09-21	1993-10-27	AC_ACCOUNT	110
101	1993-10-28	1997-03-15	AC_MGR	110
102	1993-01-13	1998-07-24	IT_PROG	60
114	1998-03-24	1999-12-31	ST_CLERK	50
122	1999-01-01	1999-12-31	ST_CLERK	50
176	1998-03-24	1998-12-31	SA_REP	80
176	1999-01-01	1999-12-31	SA_MAN	80
200	1987-09-17	1993-06-17	AD_ASST	90
200	1994-07-01	1998-12-31	AC_ACCOUNT	90
201	1996-02-27	1999-12-19	MK_REP	20

The bottom part of the screenshot shows the Windows taskbar with icons for File Explorer, Edge, File Manager, Mail, Task View, and Google Chrome. The system tray shows the date (18-09-2021), time (11:33 AM), weather (30°C Cloudy), and battery status.

right join

013306 ×

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select concat(employees.first_name,employees.last_name)as Name,employees.salary,departments.department_name,
2 departments.department_id from employees
3 right join departments on
4 employees.department_id=departments.department_id;
```

Result Grid | Filter Rows: Export | Wrap Cell Content: Result 10 | Read Only

Name	salary	department_name	department_id
JenniferWhalen	44000.00	Administration	10
MichaelHartstein	13000.00	Marketing	20
PaiFay	6000.00	Marketing	20
DenRaphaely	11000.00	Purchasing	30
AlexanderKoo	3100.00	Purchasing	30
ShelliBaida	2900.00	Purchasing	30
SigaTobias	2800.00	Purchasing	30
GuyLKimura	2600.00	Purchasing	30
KarenColmenares	2500.00	Purchasing	30
SusanMavris	6500.00	Human Resources	40
MatthewWeiss	8000.00	Shipping	50
AdamFripp	8200.00	Shipping	50
PavittGarfinn	7800.00	Shipping	50

here to search

here to search

11:38 AM 9/18/2021 30°C Cloudy 11:38 ENG 18-09-2021

A screenshot of the MySQL Workbench application. The main window displays a query editor with a SQL statement and its results. The query joins the 'employees' and 'departments' tables to display employee names, salaries, department names, and department IDs. The results are presented in a tabular format with four columns: Name, salary, department_name, and department_id. The application interface includes a toolbar at the top with various icons for database management, and a status bar at the bottom showing system information like date, time, and battery level.

Database Server Tools Scripting Help

Administration - Server Status

```
1 select concat(employees.first_name,employees.last_name)as Name,employees.salary,departments.department_name,
2 departments.department_id from employees
3 right join departments on
4 employees.department_id=departments.department_id
5 order by employees.first_name asc;
```

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

Name	salary	department_name	department_id
HULL	HULL	Treasury	120
HULL	HULL	Corporate Tax	130
HULL	HULL	Control And Credit	140
HULL	HULL	Shareholder Services	150
HULL	HULL	Benefit	160
HULL	HULL	Manufacturing	170
HULL	HULL	Construction	180
HULL	HULL	Contracting	190
HULL	HULL	Operations	200
HULL	HULL	IT Support	210
HULL	HULL	NOC	220
HULL	HULL	IT Helpdesk	230
HULL	HULL	Government Sales	240

Result 13 | Read Only

search

search

11:40 AM 9/18/2021

30°C Cloudy 11:40 ENG 18-09-2021

A screenshot of the MySQL Workbench interface. The top menu bar includes Database, Server, Tools, Scripting, and Help. A toolbar with various icons is visible above the main workspace. The central area shows a query editor with a multi-line SQL statement and a results grid below it. The results grid displays data from three tables: employees, departments, and a joined table. The columns are labeled Name, salary, department_name, and department_id. The data shows 13 rows of employee information with their corresponding department details. The bottom status bar shows the current date and time (11:40 AM, 9/18/2021), the weather (30°C, Cloudy), and system information (ENG, 18-09-2021). The taskbar at the bottom of the screen also has several icons.

A screenshot of a MySQL database client interface. The top navigation bar includes 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. A toolbar with various icons is visible above the main area. The central window shows a query editor with the following SQL code:

```
1 * select concat(employees.first_name,employees.last_name)as Name,employees.salary,departments.department_name,
2 departments.department_id from employees
3 right join departments on
4 employees.department_id=departments.department_id
5 order by employees.first_name desc;
```

The results are displayed in a grid format:| Name | salary | department_name | department_id |
| --- | --- | --- | --- |
| WinstonTaylor | 3200.00 | Shipping | 50 |
| WilliamSmith | 7400.00 | Sales | 80 |
| WilliamGetz | 8300.00 | Accounting | 110 |
| VanceJones | 2800.00 | Shipping | 50 |
| ValliPatabella | 4800.00 | IT | 60 |
| TrennaReps | 3500.00 | Shipping | 50 |
| TJOlson | 2100.00 | Shipping | 50 |
| TimothyGates | 2900.00 | Shipping | 50 |
| TaylorFox | 9600.00 | Sales | 80 |
| SusanMauris | 6500.00 | Human Resources | 40 |
| SunditaKumar | 6100.00 | Sales | 80 |
| SundarAnde | 6400.00 | Sales | 80 |
| Ste文Markle | 2200.00 | Shipping | 50 |

Result 14 ×

The bottom status bar shows system information: 11:41 AM, 9/18/2021, 30°C Cloudy, ENG, 19-09-2021.

1.3306 ×

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select max(department_id)from employees;
2 • select * from employees where department_id>'110';
3
4
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

max(department_id)
110

M_SH

Result 15 ×

to search

11:41 AM 9/18/2021

30°C Cloudy 11:43 ENG 18-09-2021

The screenshot shows a MySQL Workbench interface. In the top-left corner, there's a browser-like address bar with a URL starting with 'labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?'. Below it is a menu bar with 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. A toolbar with various icons follows. The main area has a tab titled 'hr-schema-mysql*' and a sub-tab 'Administration - Server Status'. A query editor window contains two lines of SQL code: 'select max(department_id)from employees;' and 'select * from employees where department_id>'110';'. Below the editor is a 'Result Grid' section with a single row showing the result of the first query: 'max(department_id)' with the value '110'. At the bottom of the screen, there's a taskbar with several icons and a system tray showing the date and time as '11:41 AM 9/18/2021', the weather as '30°C Cloudy', and the language as 'ENG 18-09-2021'.

3306 ×

My Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

```
1 • select max(department_id)from employees;
2 • select * from employees where department_id>100;
```

Result Grid | Filter Rows: Edit Export/Imports Wrap Cell Content:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	John	Doe	John.Doe@empatica.com	505-123-4567	2001-04-01	SA	12000	0	NULL	100

employees 18 ×

search

11:44 AM 9/18/2021 30°C Cloudy 11:43 18-09-2021

This screenshot shows a MySQL Workbench session window titled 'hr-schema-mysql'. The main area displays a query results grid for employees whose department ID is greater than 100. The grid includes columns for employee ID, first name, last name, email, phone number, hire date, job ID, salary, commission percentage, manager ID, and department ID. A single row is visible in the grid, corresponding to the query results shown above it.

The session window has tabs for 'Script' and 'Grid'. The 'Grid' tab is active, showing the results of the following SQL query:

```
1 • select max(department_id)from employees;
2 • select * from employees where department_id>100;
```

The status bar at the bottom of the screen shows the system date and time (11:44 AM, 9/18/2021), weather (30°C Cloudy), battery level (11:43), and system date (18-09-2021).

The screenshot shows a MySQL Workbench interface with a query editor and a result grid.

Query Editor:

```
1 • select job_history.employee_id,jobs.job_title,job_history.start_date,job_history.end_date,jobs.max_salary from jobs
right join job_history on
jobs.job_id=job_history.job_id
order by jobs.max_salary desc;
```

Result Grid:

employee_id	job_title	start_date	end_date	max_salary
176	Sales Manager	1999-01-01	1999-12-31	20000
101	Accounting Manager	1993-10-28	1997-03-15	16000
176	Sales Representative	1998-03-24	1998-12-31	12000
102	Programmer	1993-01-13	1998-07-24	10000
101	Public Accountant	1989-09-21	1993-10-27	9000
200	Public Accountant	1994-07-01	1998-12-31	9000
201	Marketing Representative	1996-02-27	1999-12-19	9000
200	Administration Assistant	1987-09-17	1993-06-17	6000
114	Stock Clerk	1998-03-24	1999-12-31	5000
122	Stock Clerk	1999-01-01	1999-12-31	5000

Left join

A screenshot of a computer monitor displaying a MySQL Workbench interface. The title bar shows the URL: <https://ods.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631943058710#launchurl=Resources%2FLaunchica%2FQkx5...>. The main window is titled "hr-schema-mysql*" and displays an SQL query and its results.

The SQL query is:

```
1 select employees.first_name,employees.last_name,departments.manager_id from employees
2 left join departments on
3 employees.manager_id=departments.manager_id;
4
5
```

The result grid shows the following data:

first_name	last_name	manager_id
Steven	Rogers	NULL
Neena	Kochhar	100
Lex	De Haan	100
Alexander	Hunold	NULL
Bruce	Ernst	103
David	Austin	103
Valli	Pataballa	103
Diana	Lorentz	103
Nancy	Greenberg	NULL
Daniel	Faviet	108
John	Chen	108
Ismael	Sciarrino	108
Tina	Manuel	108
Manuela	Irrman	108

Below the result grid, it says "Result 19".

The system tray at the bottom right shows the date and time as 12:42 PM, 18/09/2021, and the weather as 30°C Cloudy.

cross join

1:3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select employee_id,first_name,last_name,d.department_id from employees
2 cross join departments d;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Fetch rows:

employee_id	first_name	last_name	department_id
100	Steven	2020_B84King	70
100	Steven	2020_B84King	80
100	Steven	2020_B84King	40
100	Steven	2020_B84King	20
100	Steven	2020_B84King	270
100	Steven	2020_B84King	260
100	Steven	2020_B84King	250
100	Steven	2020_B84King	240
100	Steven	2020_B84King	230
100	Steven	2020_B84King	220
100	Steven	2020_B84King	210
100	Steven	2020_B84King	200
100	Steven	2020_B84King	190

Result 20 x

To search

12:45 PM 9/18/2021 12:44 30°C Cloudy ENG 18-09-2021

A screenshot of the MySQL Workbench interface. The main window displays a query editor with the following SQL code:

```
1 • select employee_id,first_name,last_name,d.department_id from employees
2 cross join departments d;
```

The results are shown in a grid titled "Result Grid". The columns are "employee_id", "first_name", "last_name", and "department_id". The data consists of 20 rows, all of which have an "employee_id" of 100 and a "first_name" and "last_name" of "Steven". The "department_id" values range from 70 to 270. The MySQL Workbench interface includes a toolbar with various icons, a left sidebar with database and schema navigation, and a status bar at the bottom showing the date and time.

13306 x
Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select count(*) from employees cross join jobs;
```

2
3
4
5

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

count(*)
2033

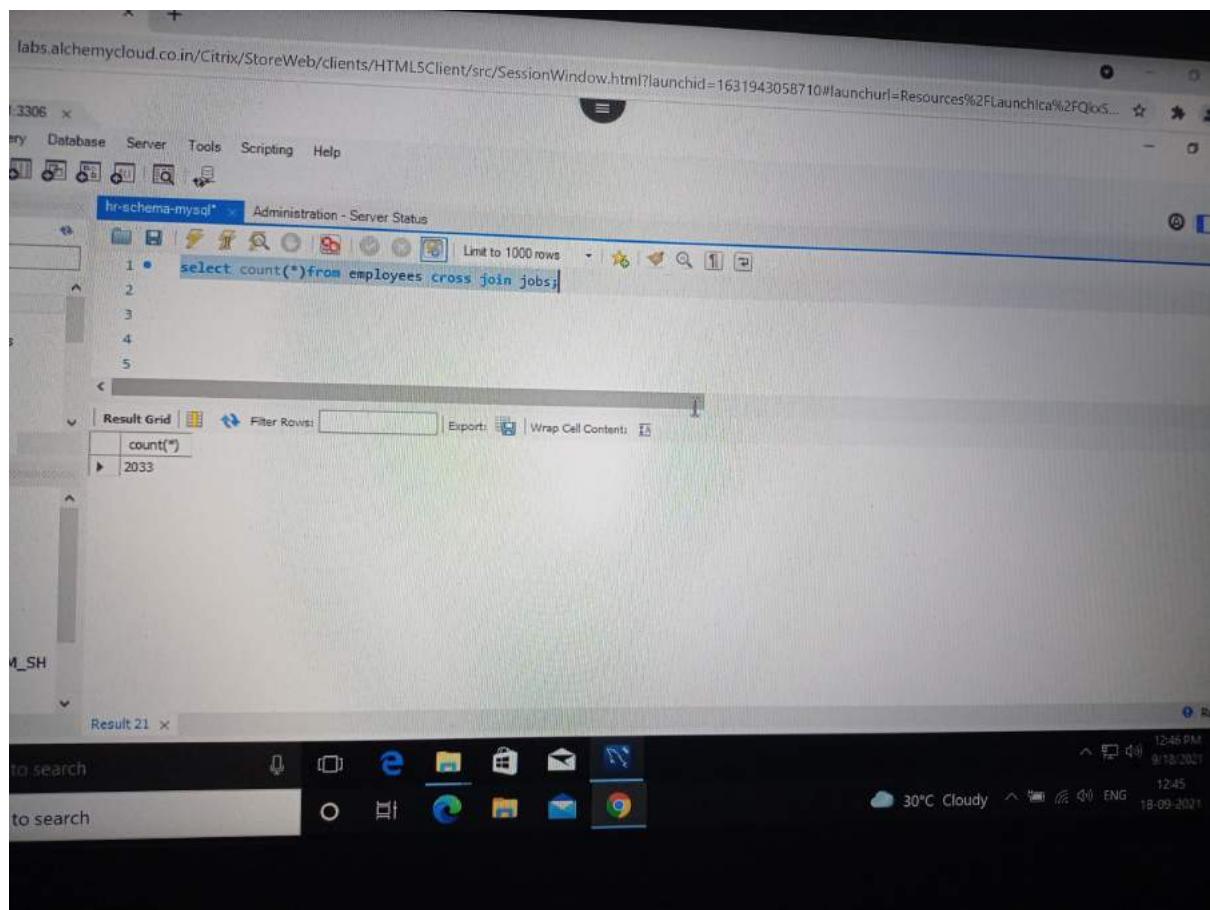
A_SH

Result 21 x

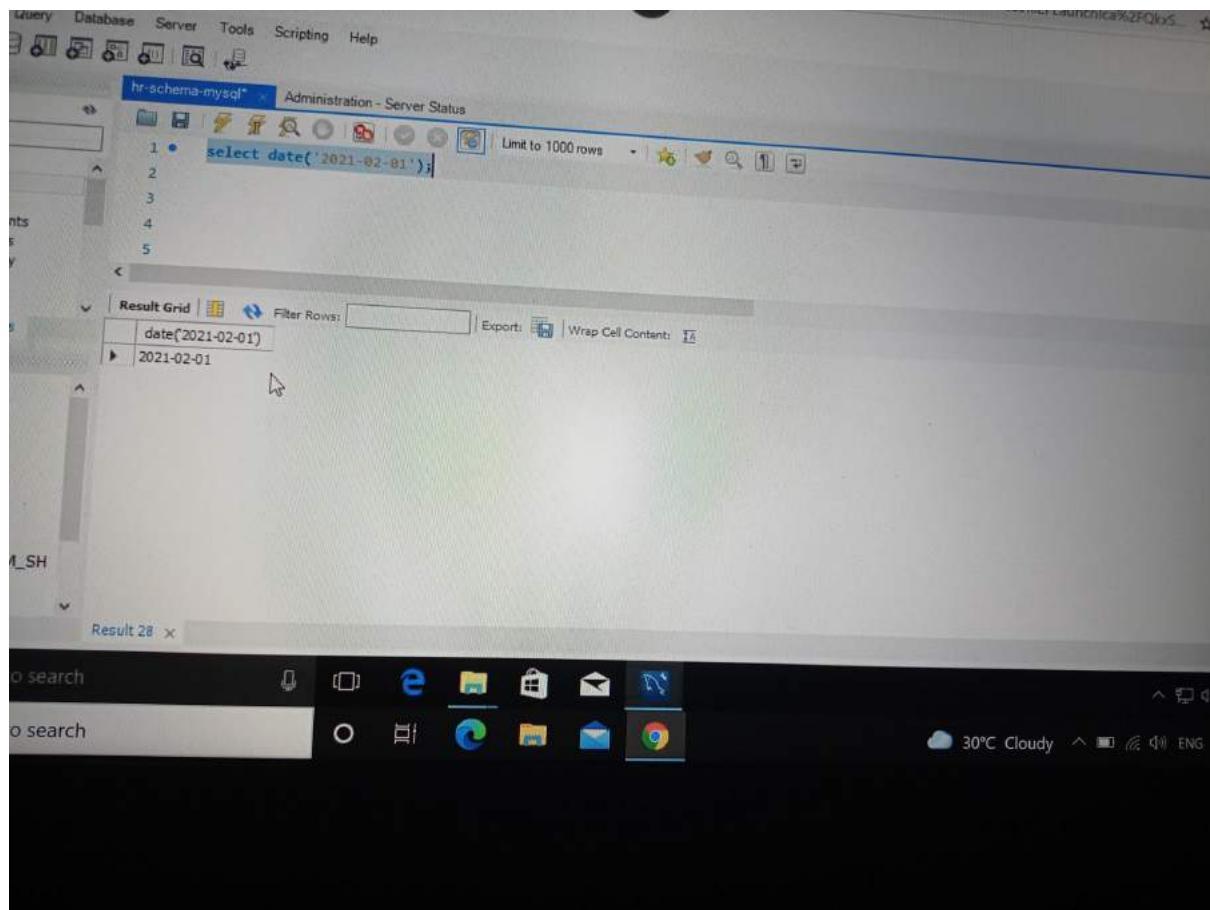
to search

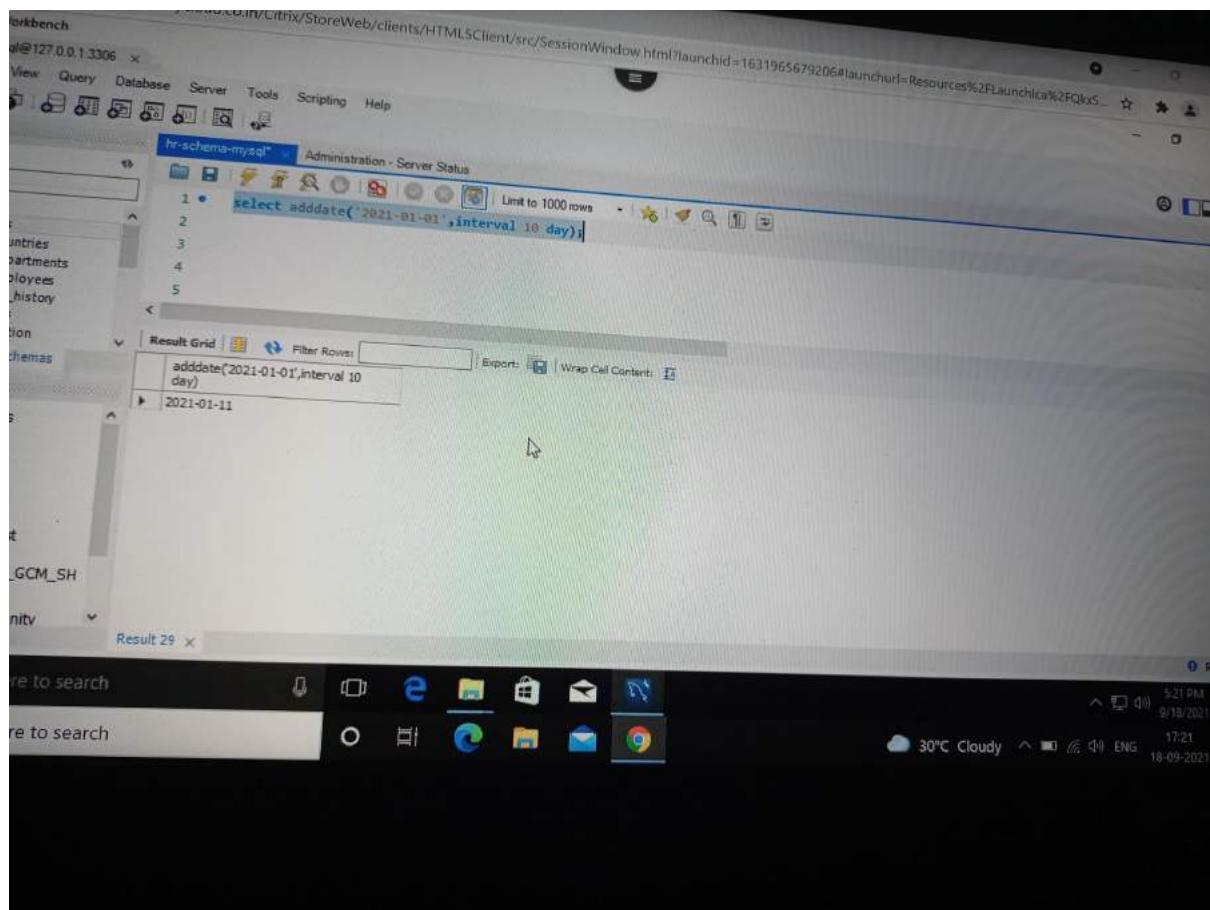
to search

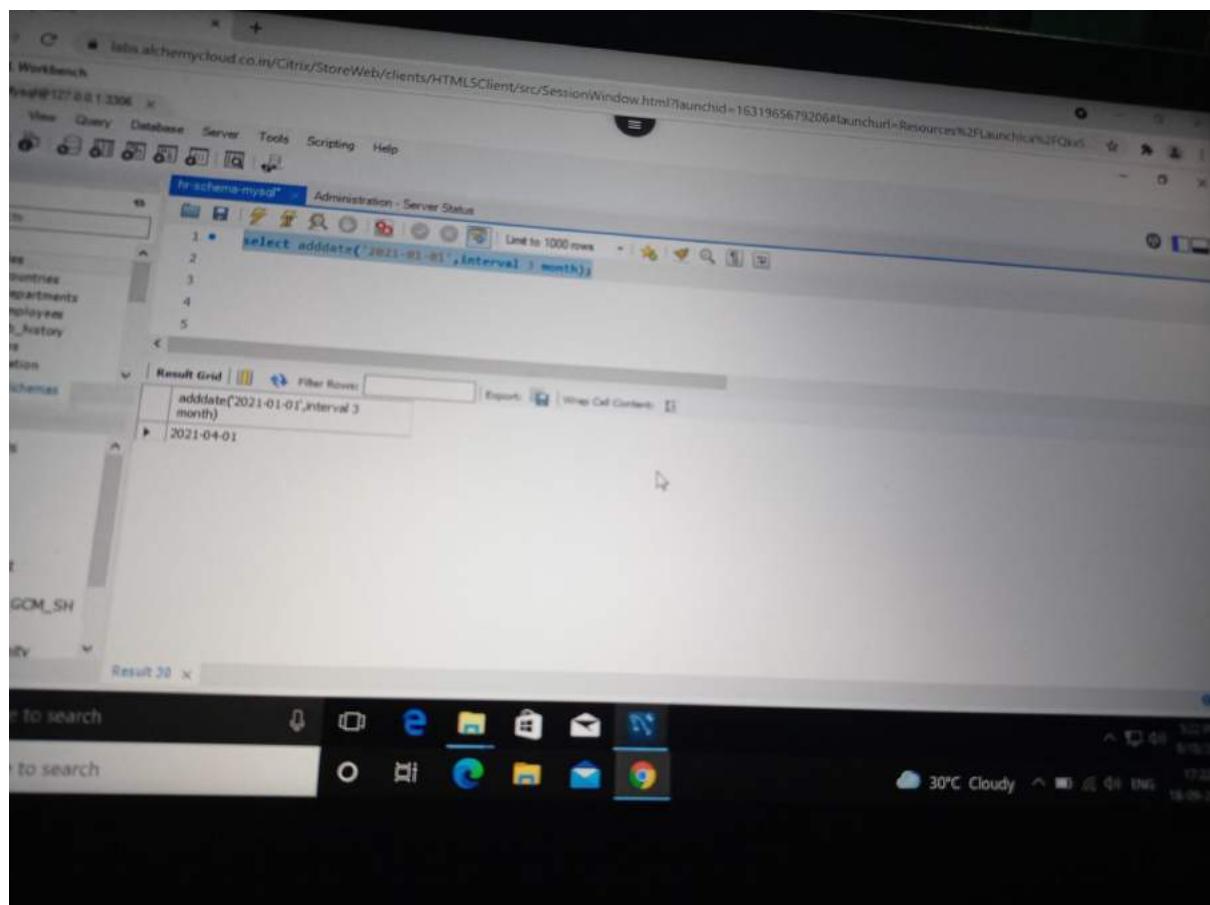
12:46 PM 9/18/2021 30°C Cloudy 12:45 18-09-2021

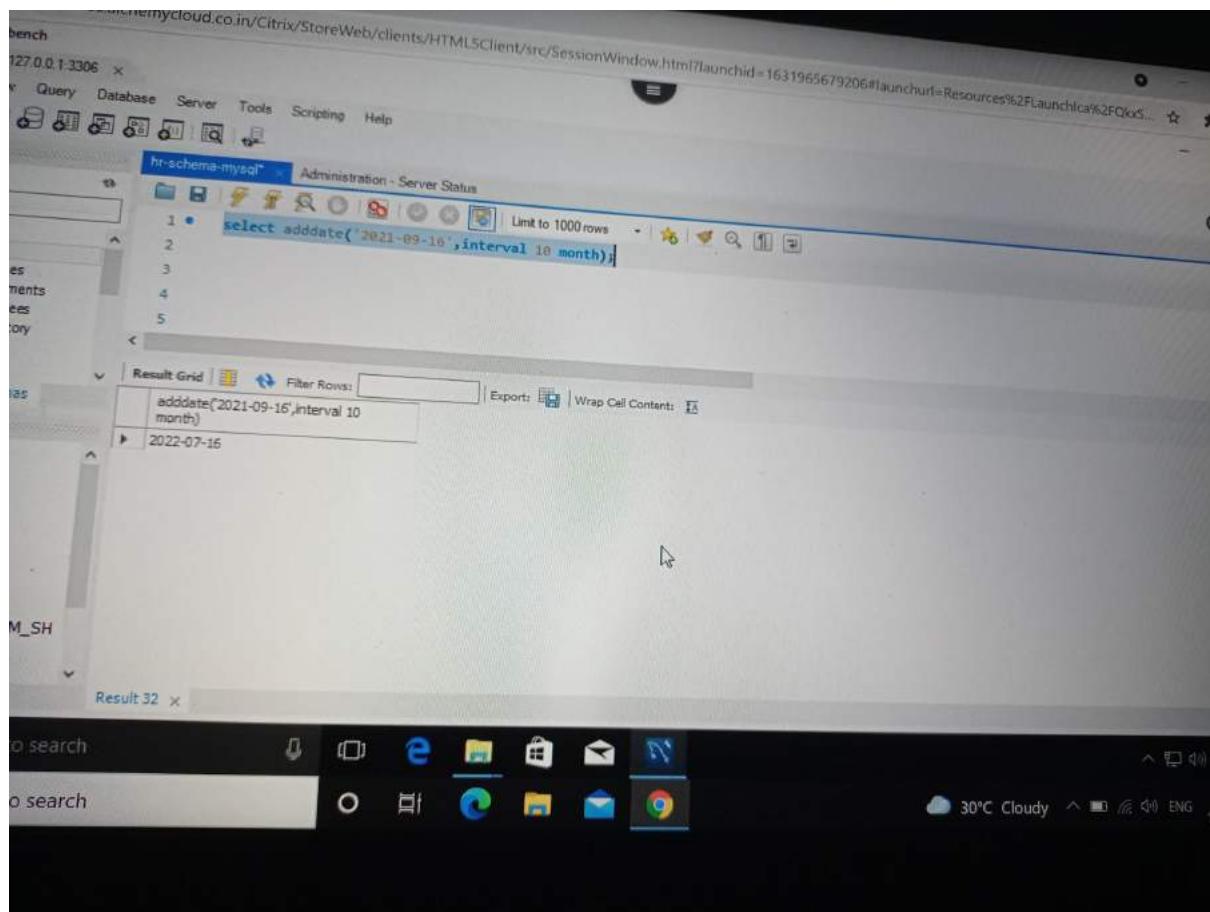


date









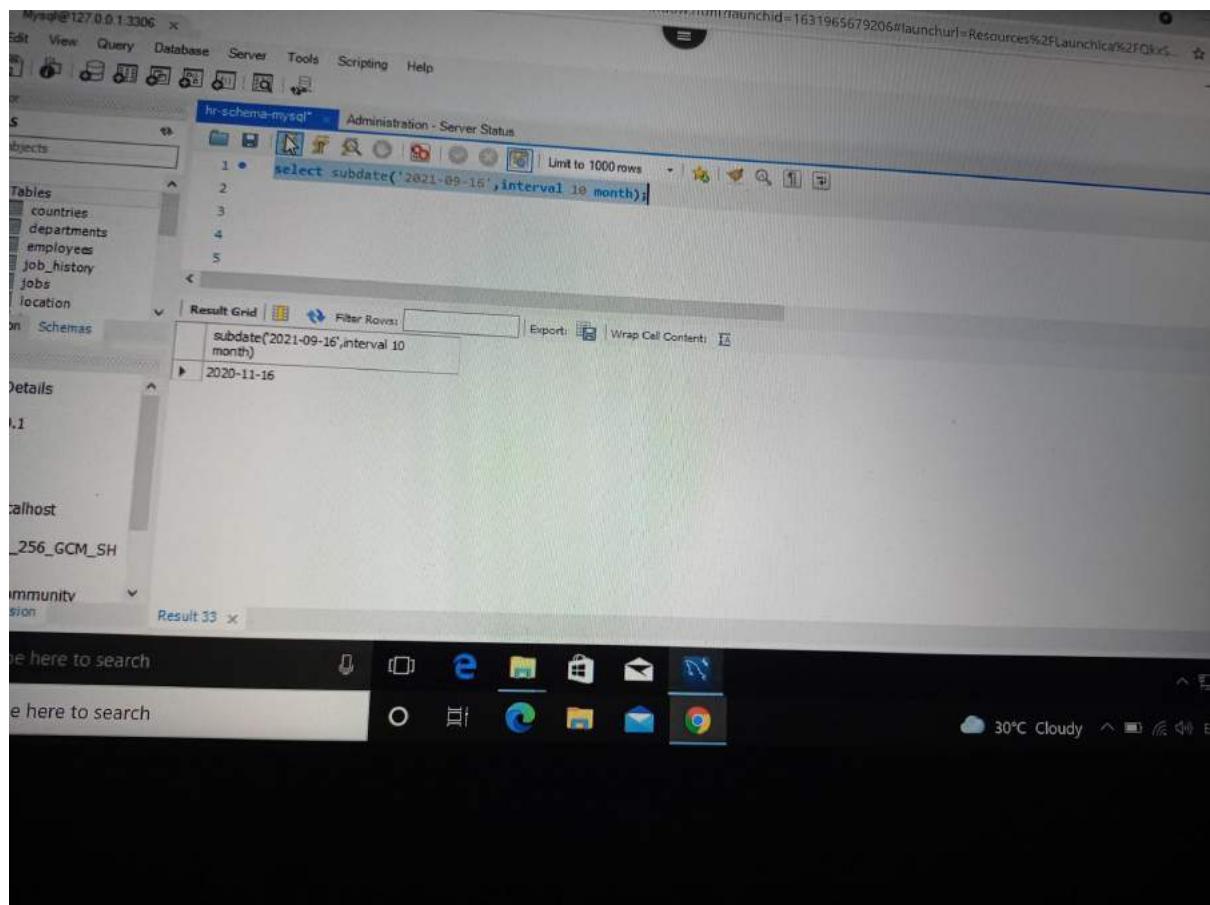
The screenshot shows a MySQL Workbench interface. The main window displays a query editor with the following SQL code:

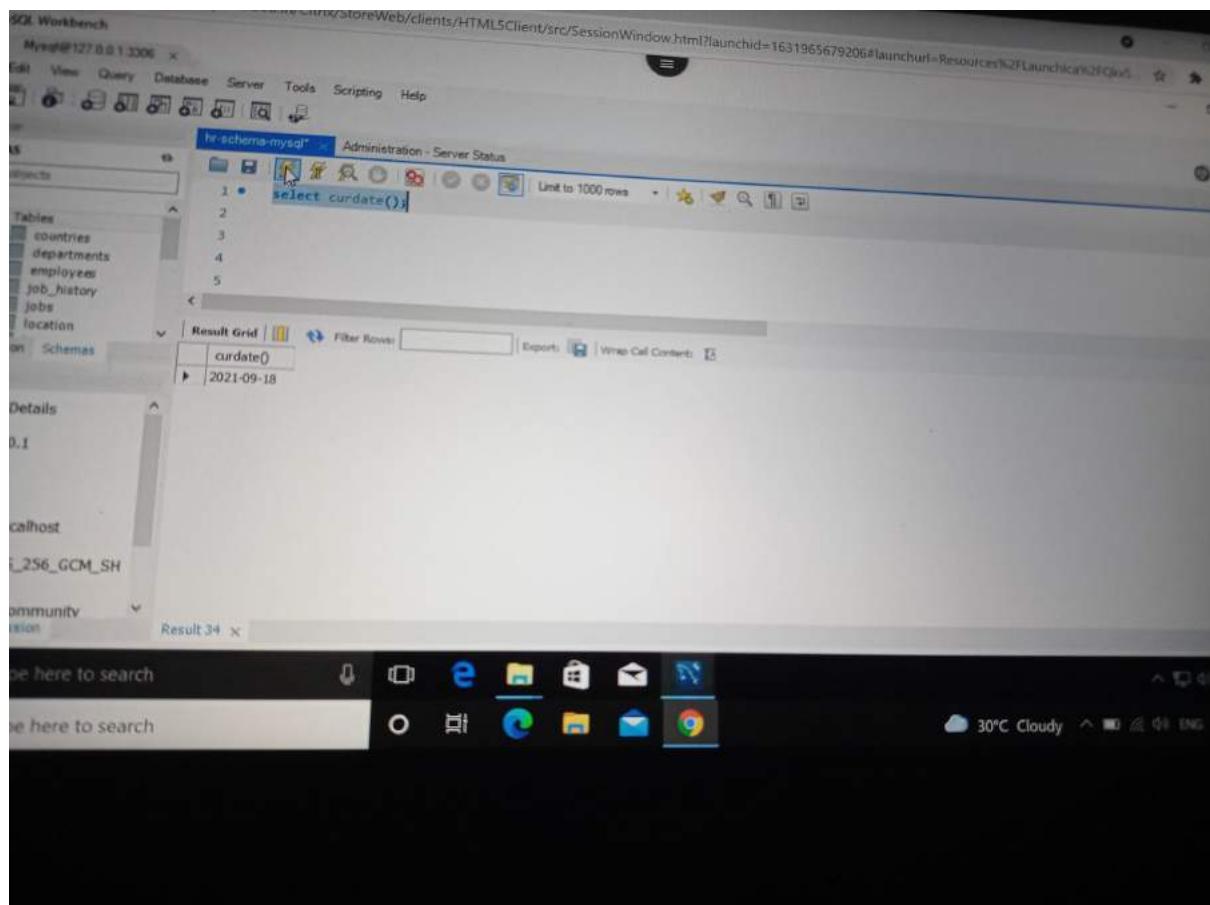
```
1 • select adddate('2021-09-16',interval 10 month);
```

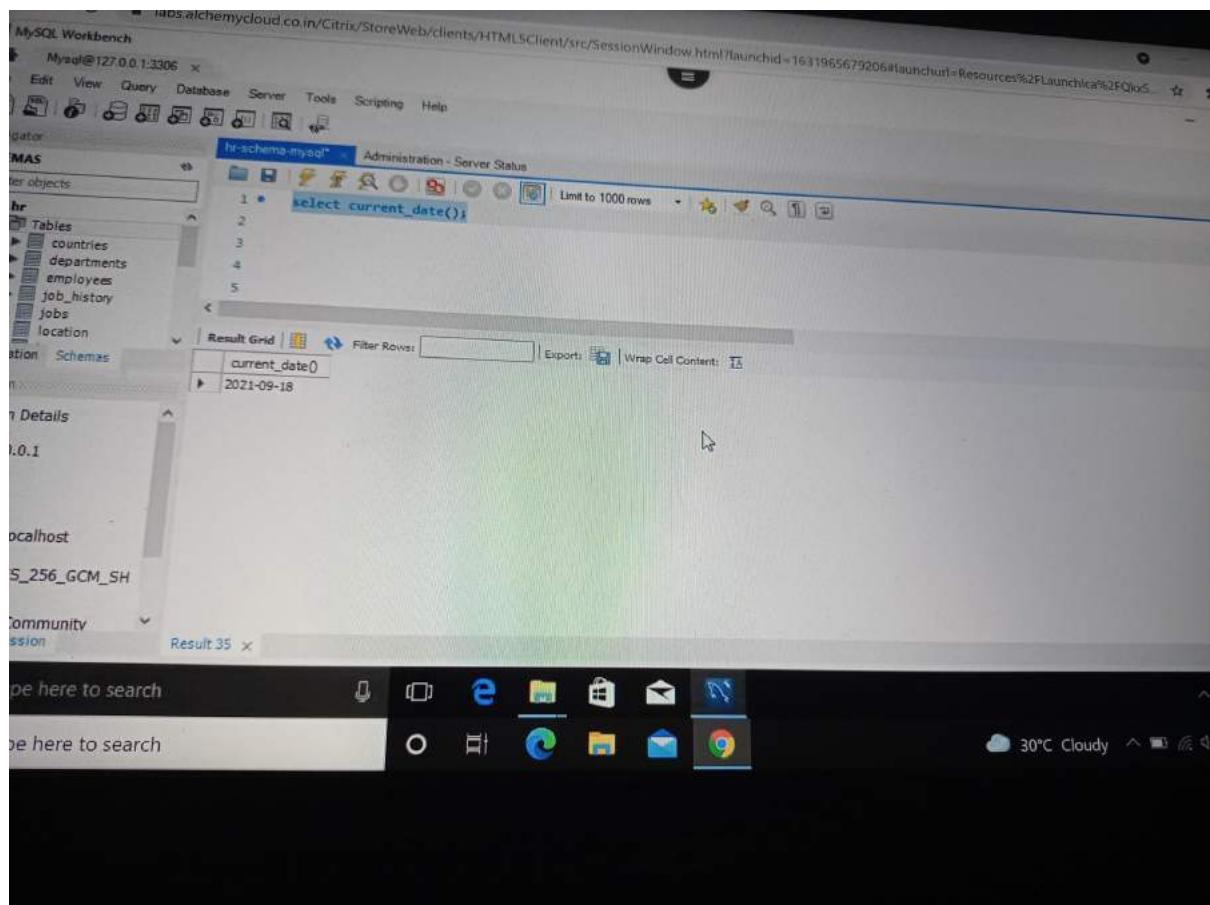
The result grid shows one row of data:

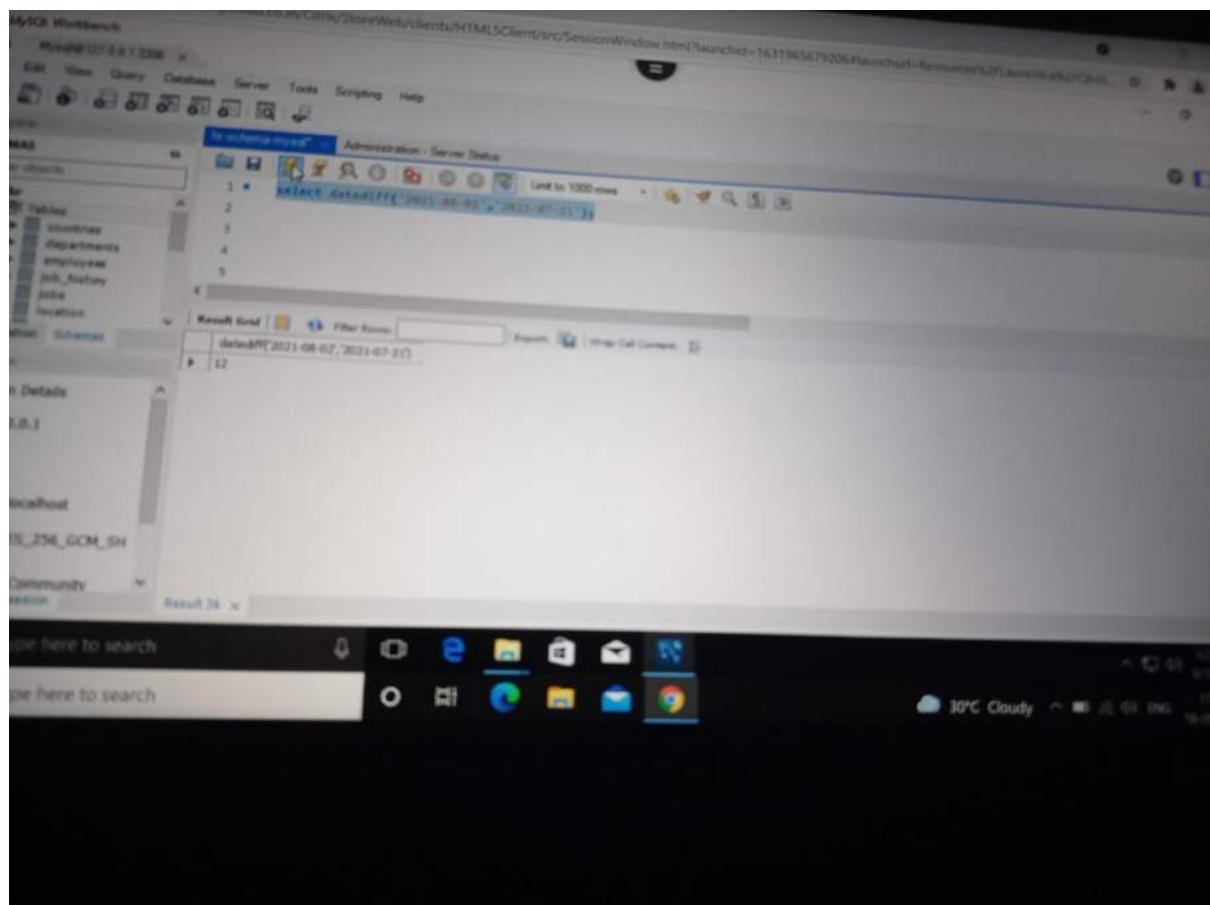
	adddate('2021-09-16',interval 10 month)
	2022-07-16

The status bar at the bottom indicates "Result 32" and shows the system tray with icons for search, battery, signal strength, and weather (30°C Cloudy).









A screenshot of a computer screen displaying MySQL Workbench. The main window shows a query editor with the following SQL code:

```
1 select date_format('1947-08-15', '%Y')
```

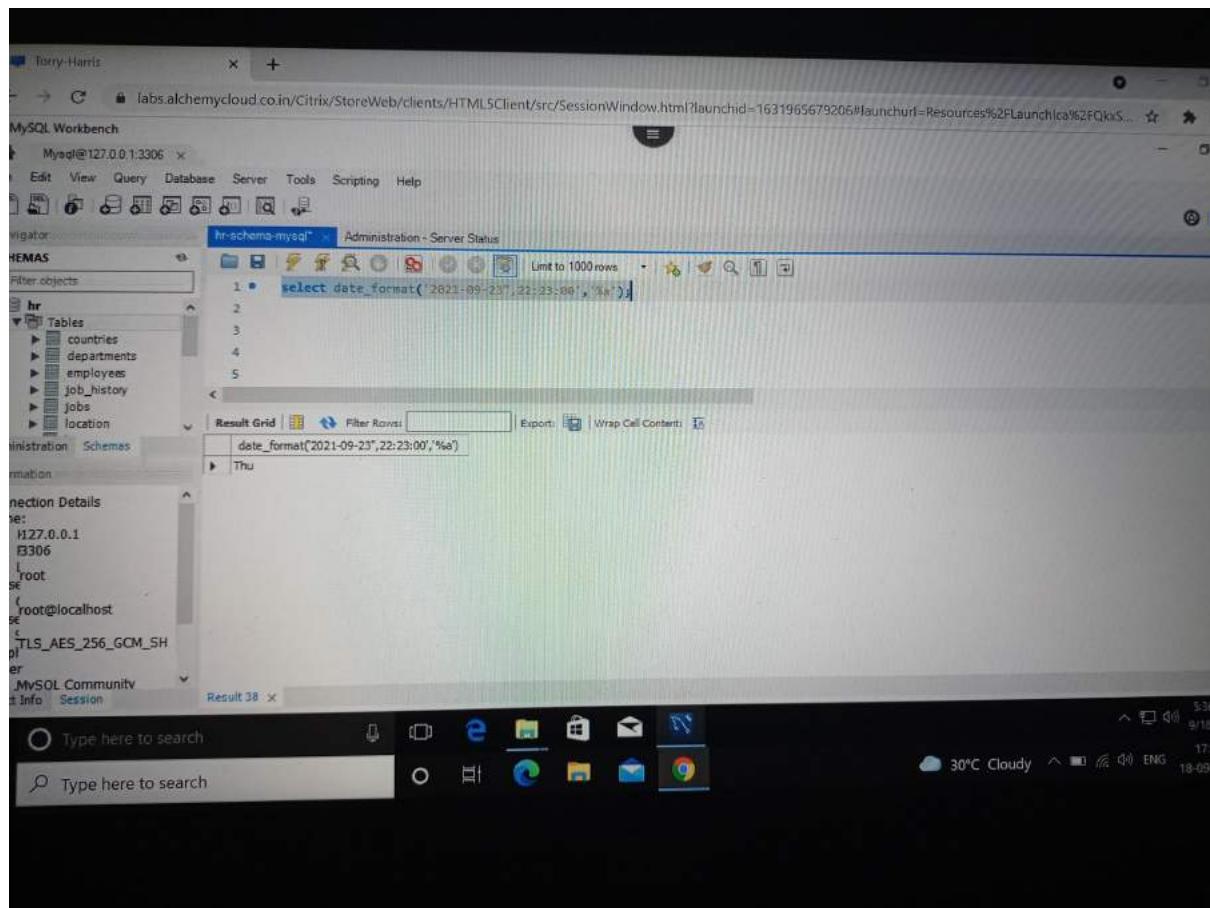
The result grid displays the output of the query:

date_format('1947-08-15', '%Y')
1947

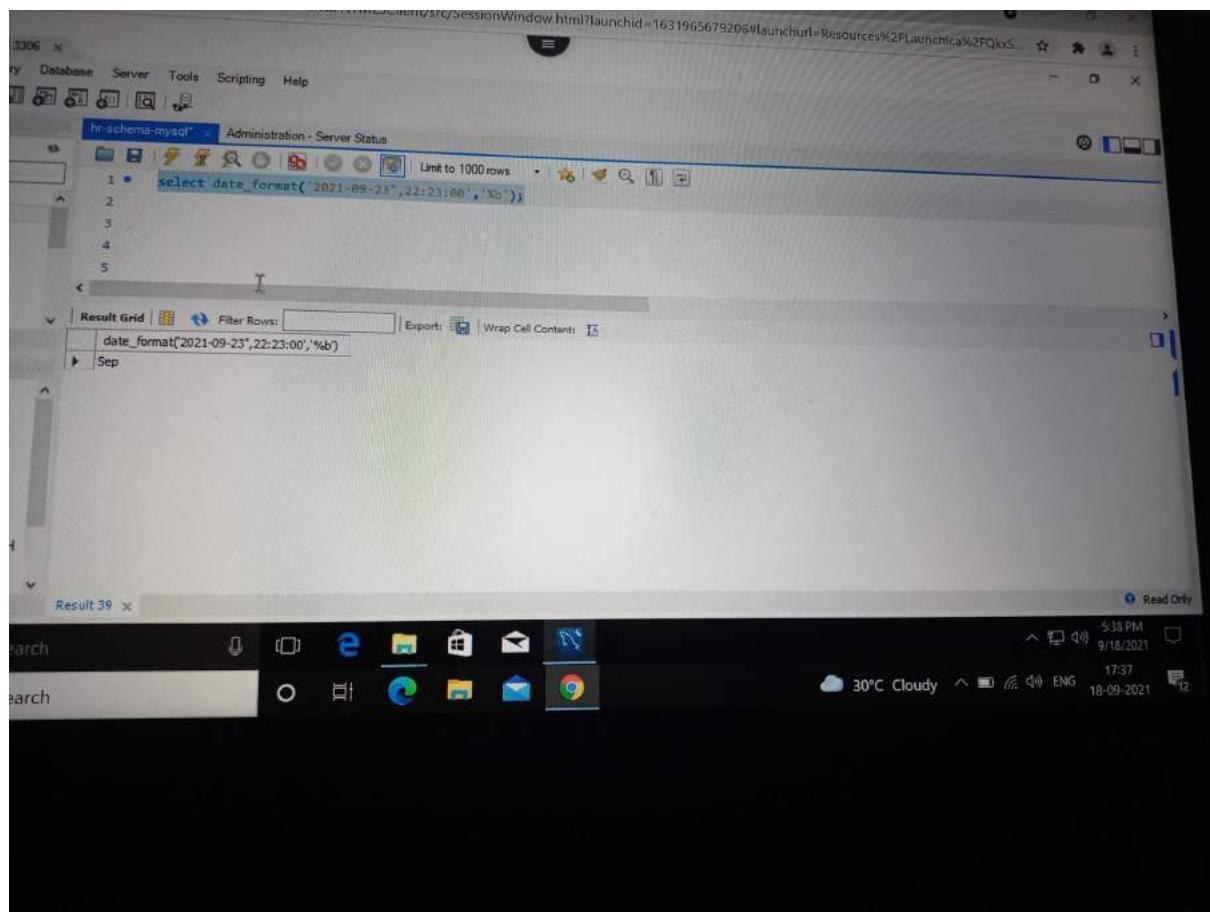
The status bar at the bottom of the window shows the text "Result 37".

Below the MySQL Workbench window, the Windows taskbar is visible, showing the Start button, a search bar with the text "search", and icons for various applications including File Explorer, Edge, and Google Chrome. The system tray shows the date and weather: "30°C Cloudy".

1.%a: this is a weekday name.its limits from sun to sat.



2.%b: This means its showing month name, its limits from jan to dec.



A screenshot of a computer monitor displaying a MySQL Workbench interface. The browser address bar shows the URL: labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631965679206#launchurl=Resources%2FLauncher%2FQics... The main window of MySQL Workbench shows a query editor with the following SQL code:

```
1 • select date_format('2021-09-23','%b');
```

The results grid displays the output of the query:

date_format('2021-09-23','%b')
Sep

The status bar at the bottom right of the screen shows the date and time: 9/18/2021 17:38 PM.

3.%c: This is numeric month name.its limits from 0 to 12.

The screenshot shows a MySQL Workbench interface running in a browser window. The title bar indicates the session is for 'Terry-Harris' at 'MySql@127.0.0.1:3306'. The main area displays a query in the SQL editor:

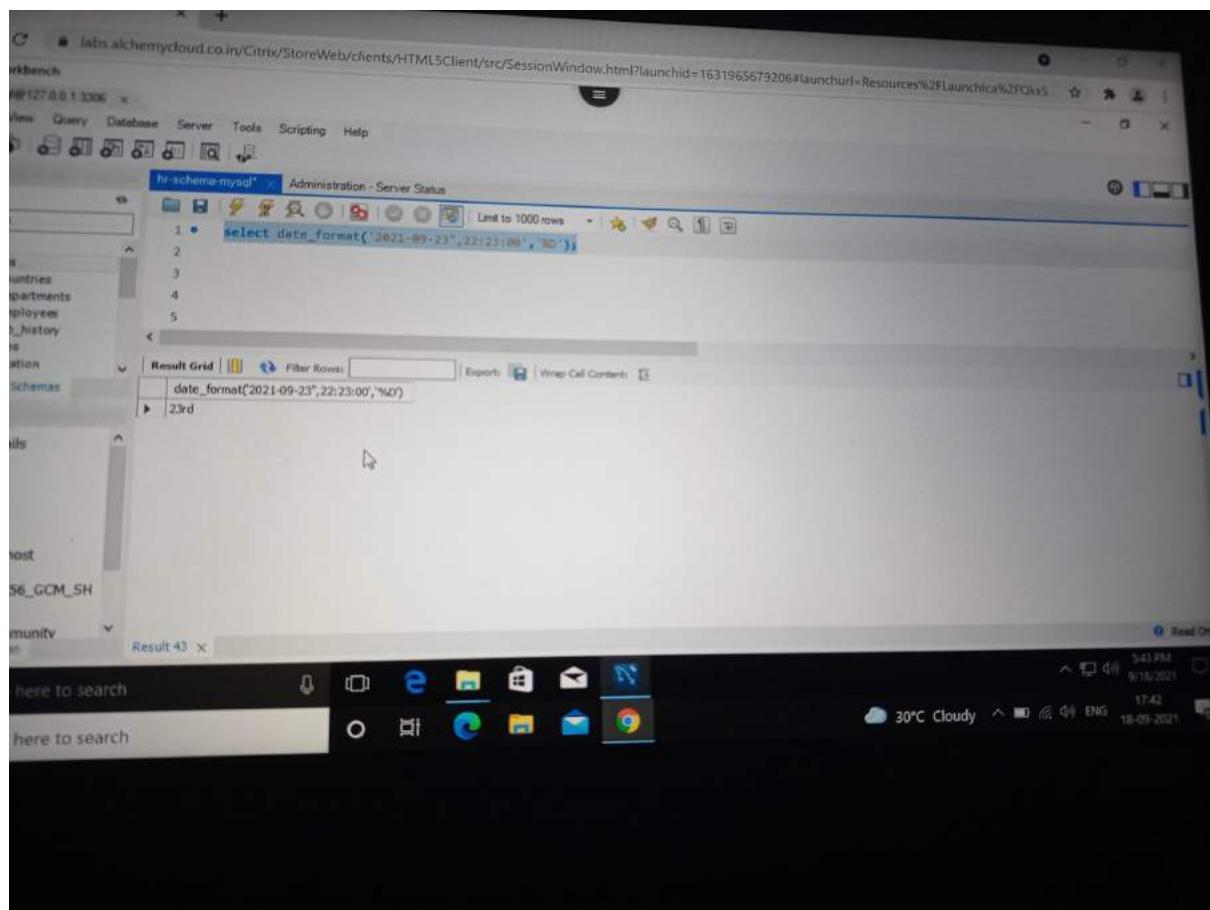
```
1 select date_format('2021-09-23',22:23:00,'%c')
```

The result grid shows a single row with the output of the query:

	date_format('2021-09-23',22:23:00,'%c')
9	23

The MySQL Workbench interface includes a sidebar with objects like 'countries', 'departments', 'employees', 'job_history', 'jobs', and 'location'. The bottom of the screen shows a taskbar with various icons and a system tray indicating '30°C Cloudy' weather.

4.%D: This is shows day of month as numeric values,followed by a suffix like 1st,2nd 3rd etc.



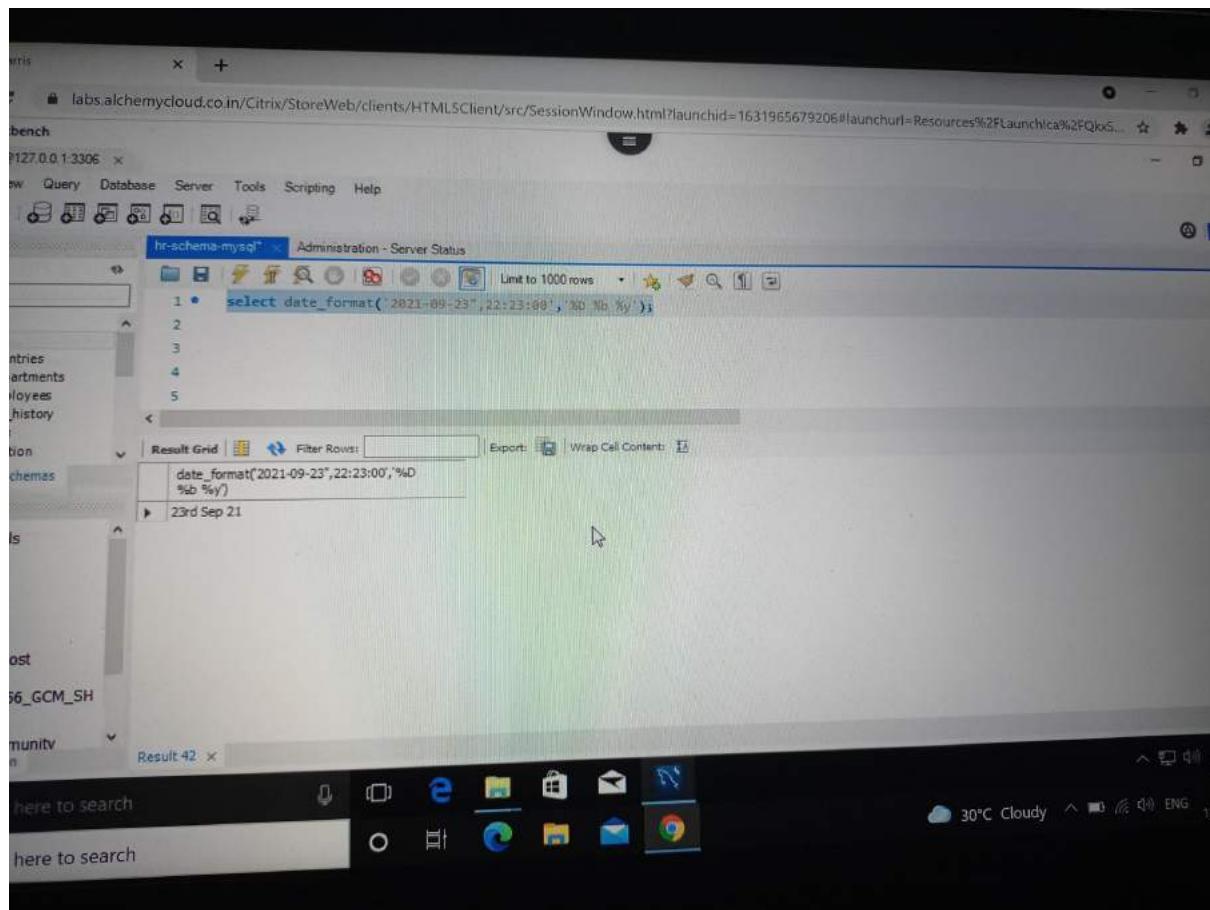
A screenshot of a computer monitor displaying a MySQL Workbench interface. The title bar shows the URL: `labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631965679206#launchurl=Resource%2FLaunchca%2FQlxS...`. The main window is titled "hr-schema-mysql*" and shows the "Administration - Server Status" tab. In the query editor, the following SQL code is written:

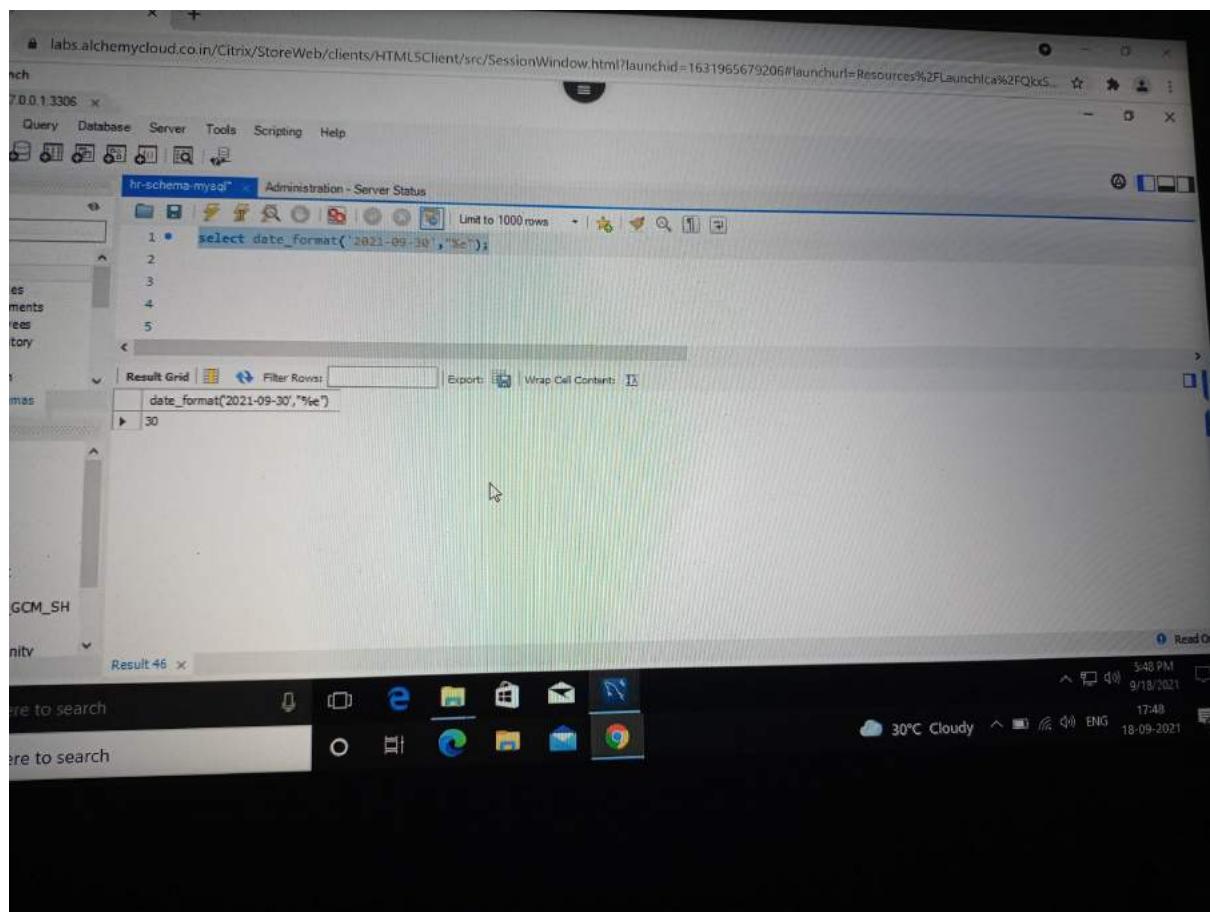
```
1 • select date_format('2021-09-23',22:23:00, '%D month')  
2  
3  
4  
5
```

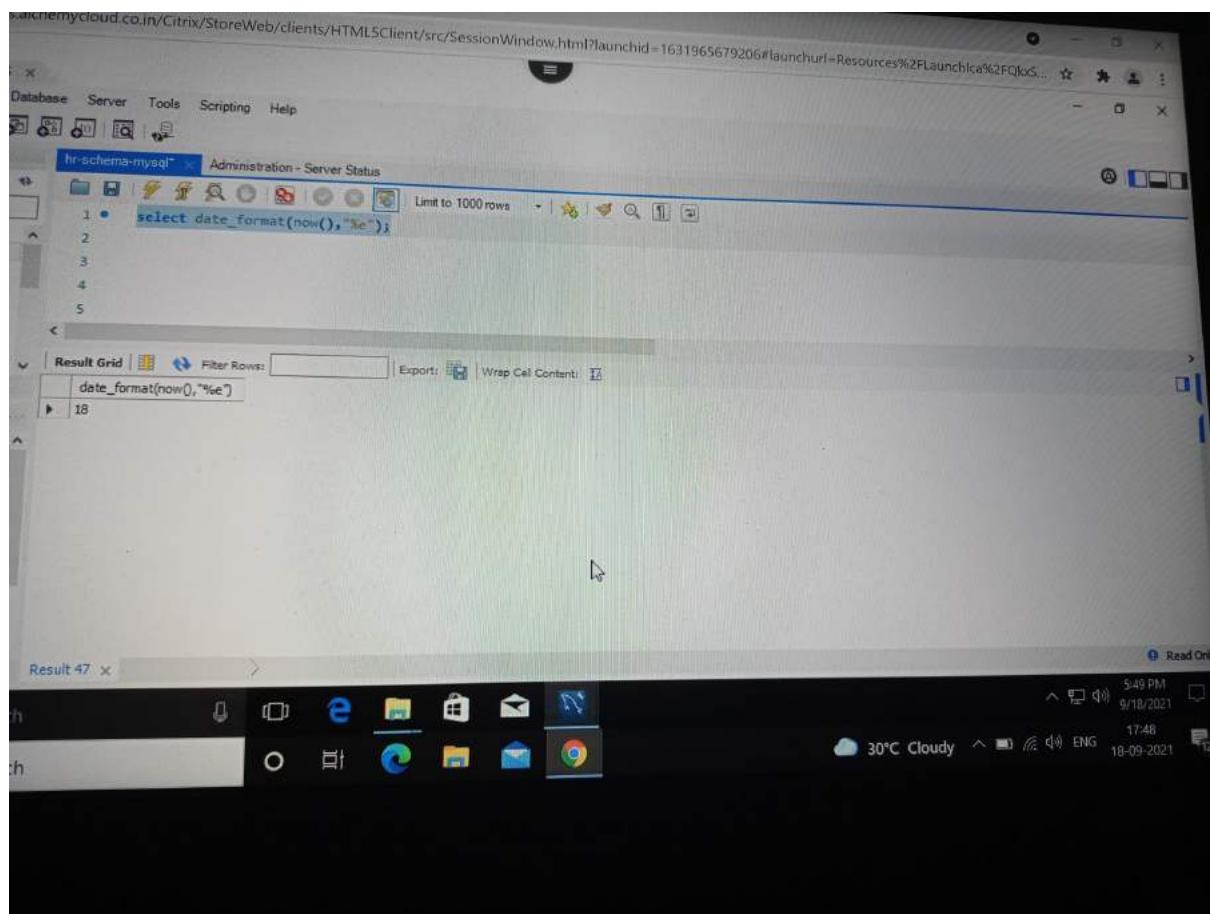
The result grid displays the output of the query:

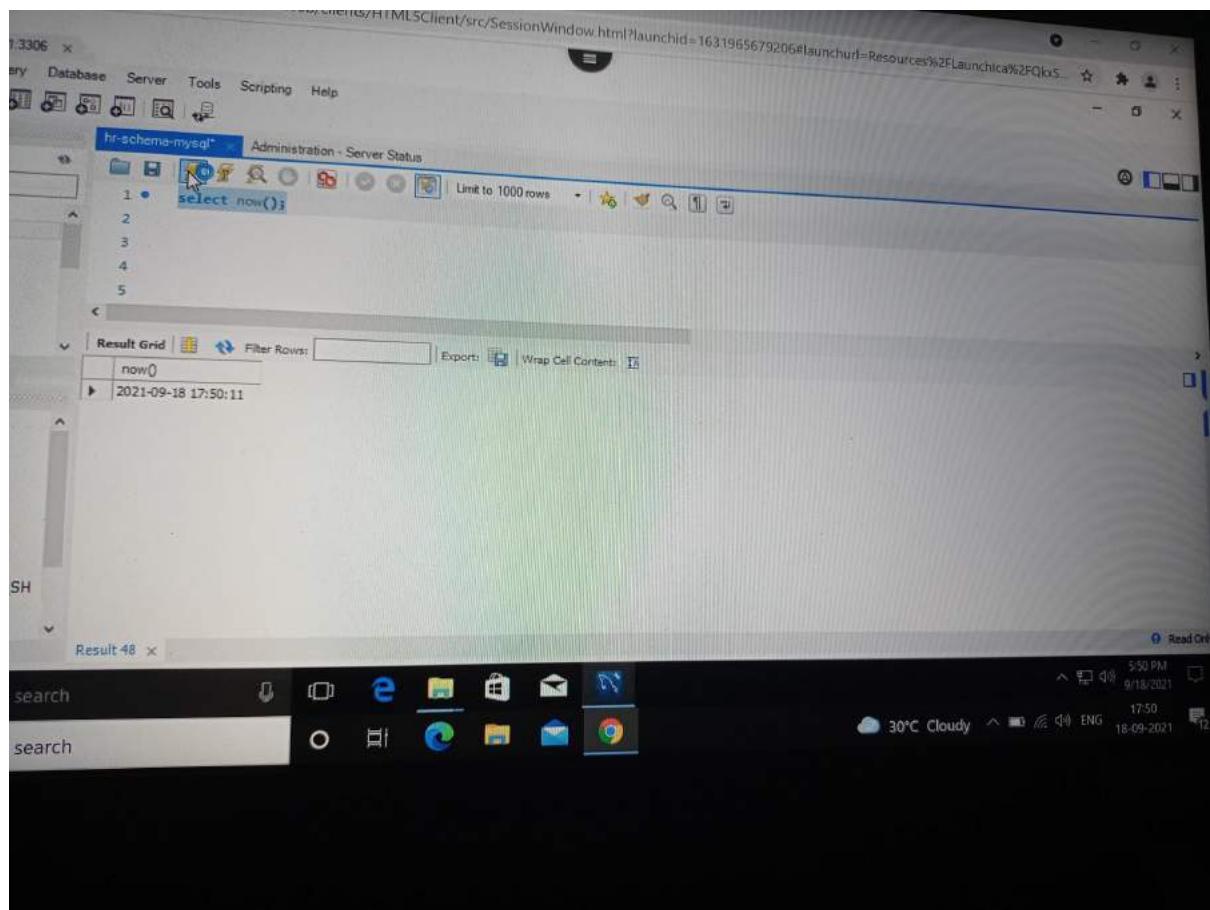
date_format('2021-09-23',22:23:00, '%D month')
23rd month

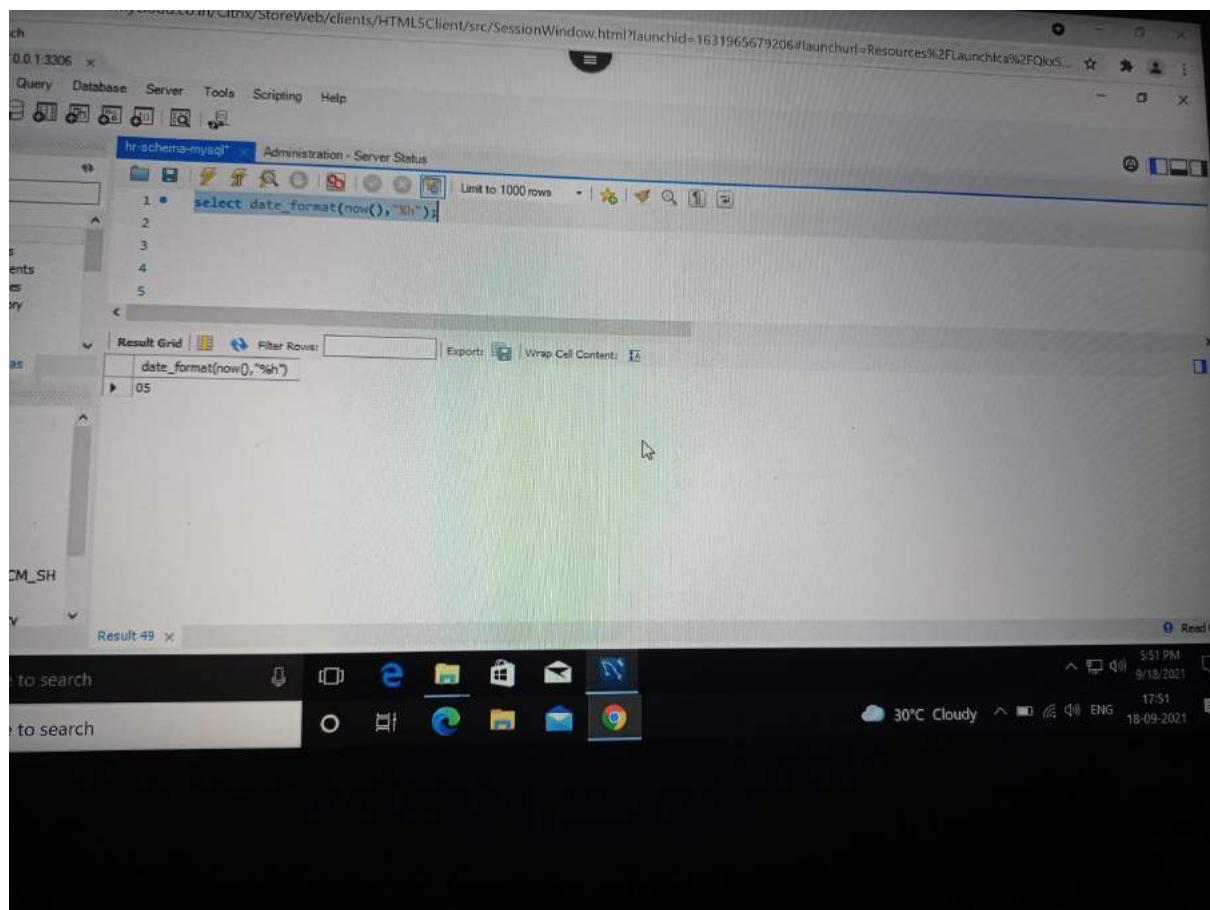
Below the result grid, it says "Result 44 x". The system tray at the bottom right shows the date as 18-09-20, the time as 17:44, and the weather as 30°C Cloudy. The taskbar icons include File Explorer, Edge, Task View, File Explorer, Mail, and Google Chrome.

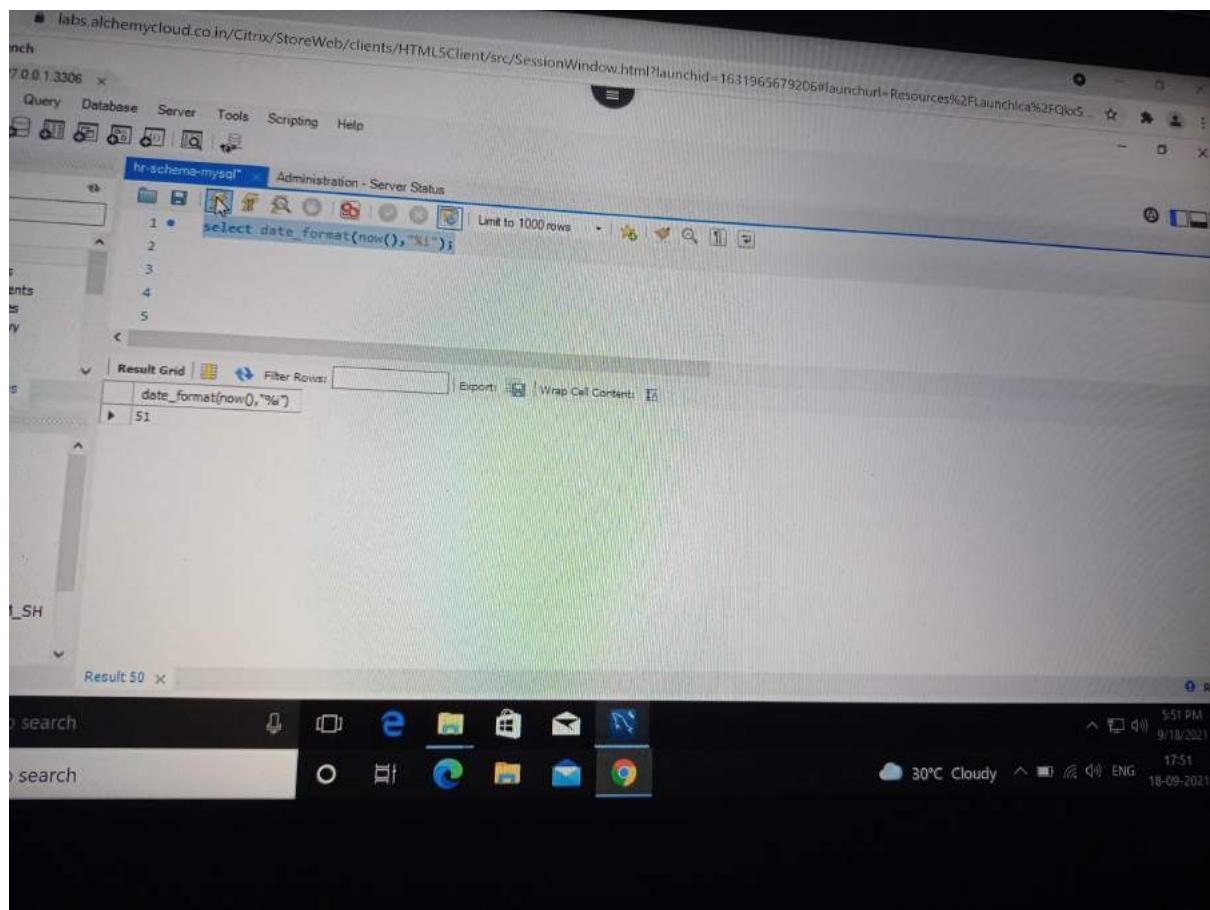


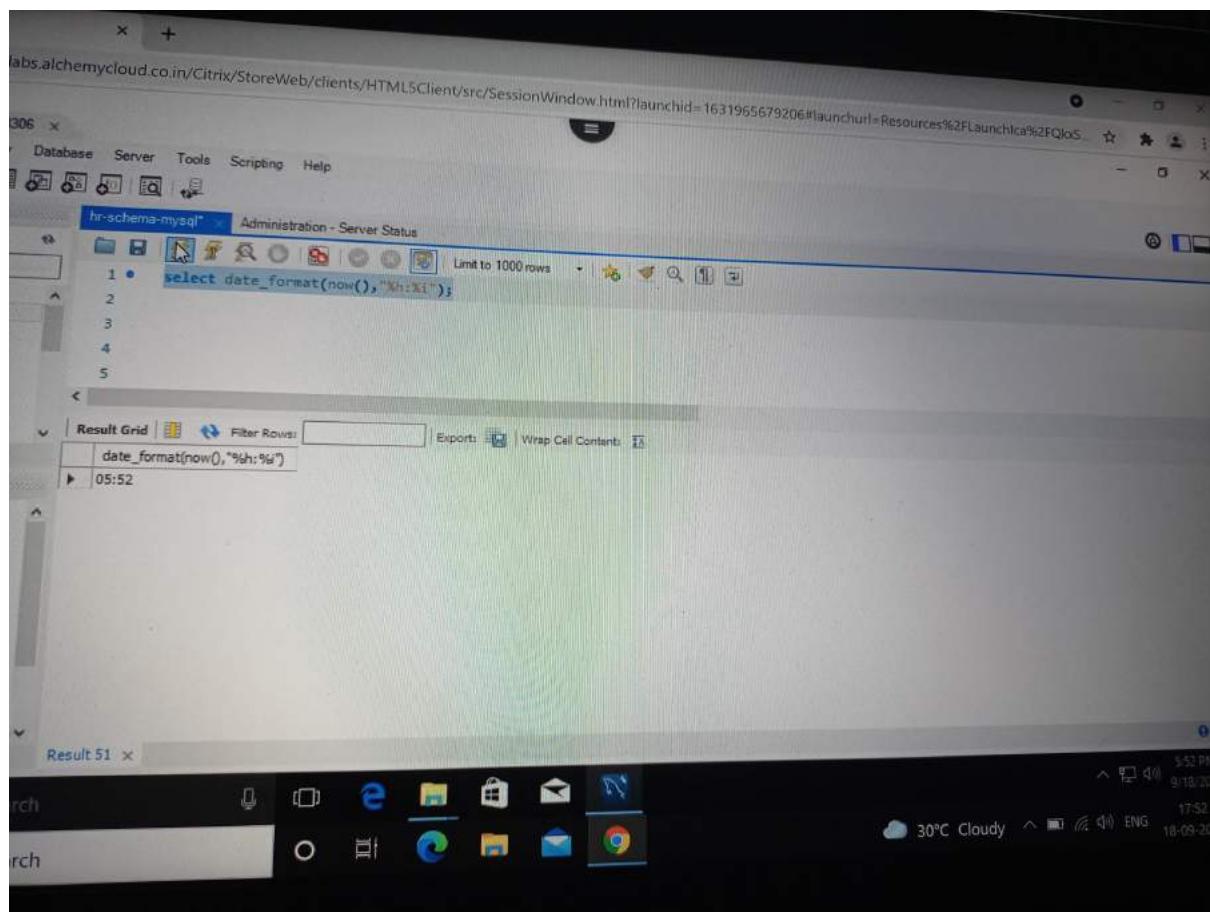


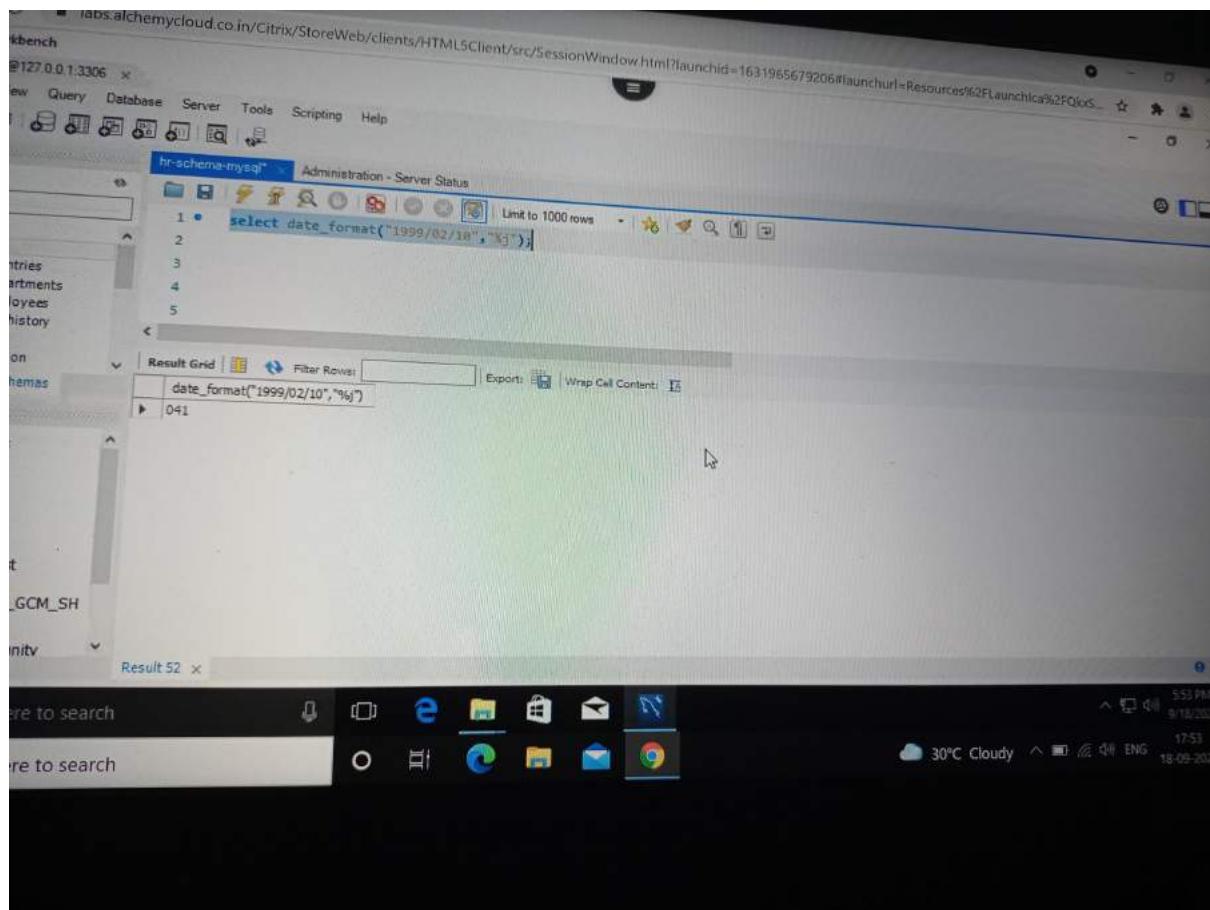


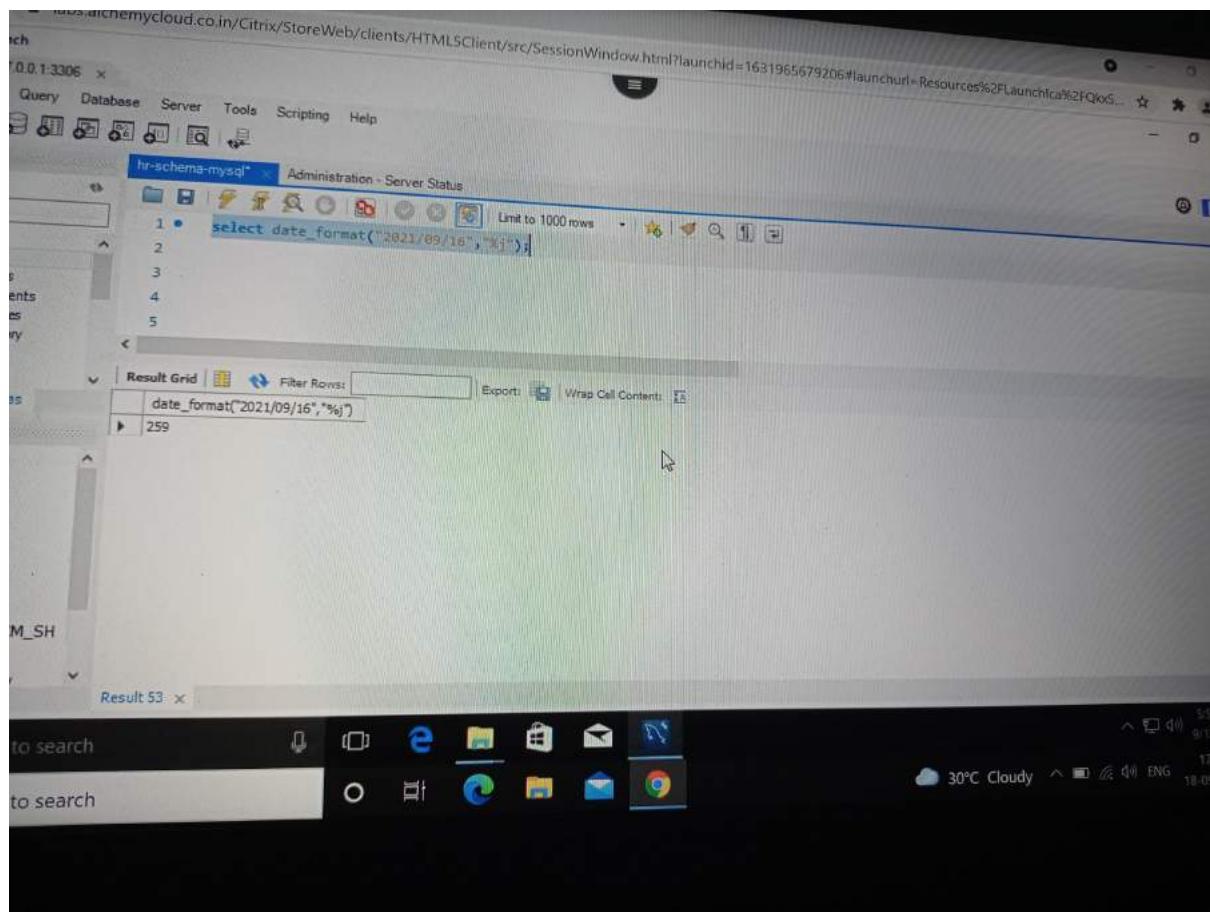












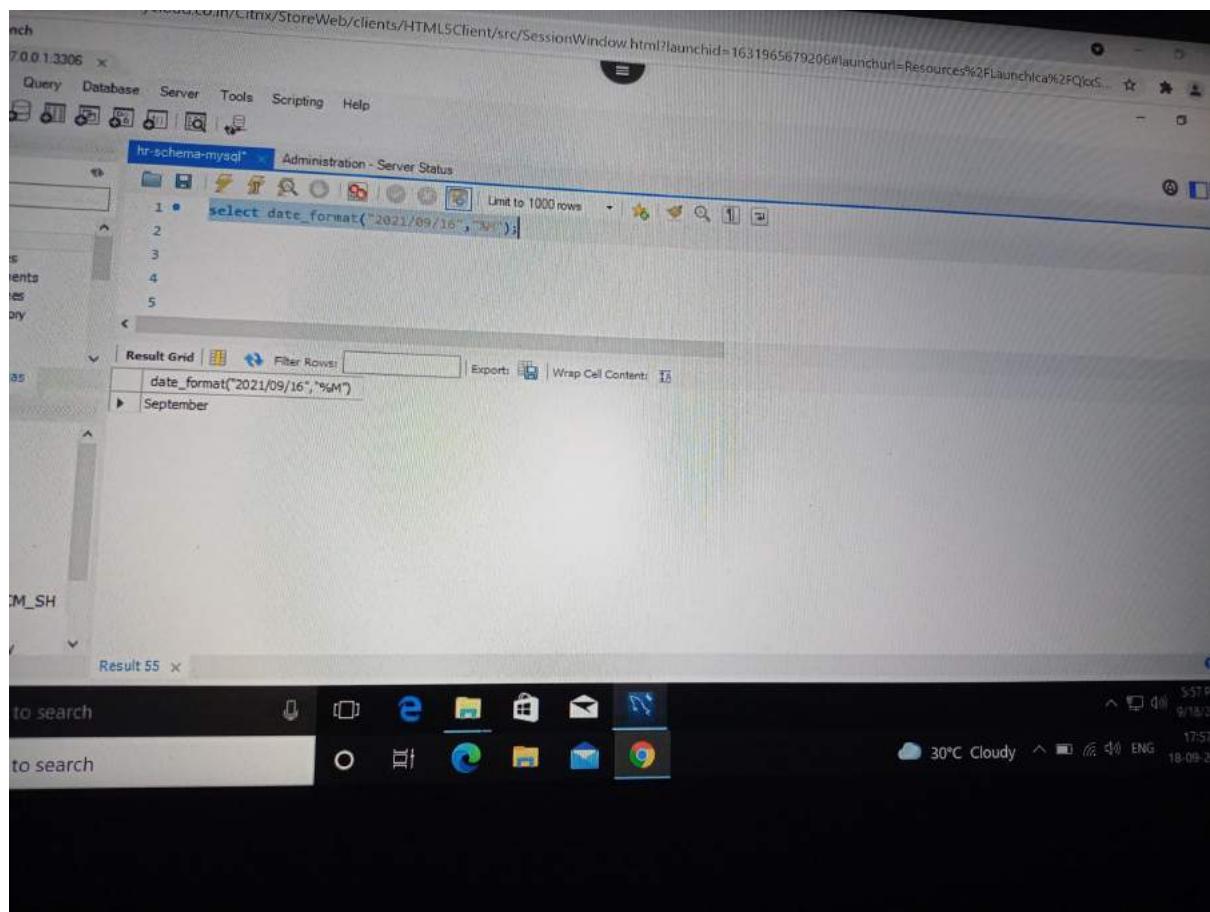
A screenshot of the MySQL Workbench interface. The title bar shows the URL: `labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631965679205#launchurl=Resources%2FLaunchica%2FCloud...`. The main window displays a query results grid. The query entered is:

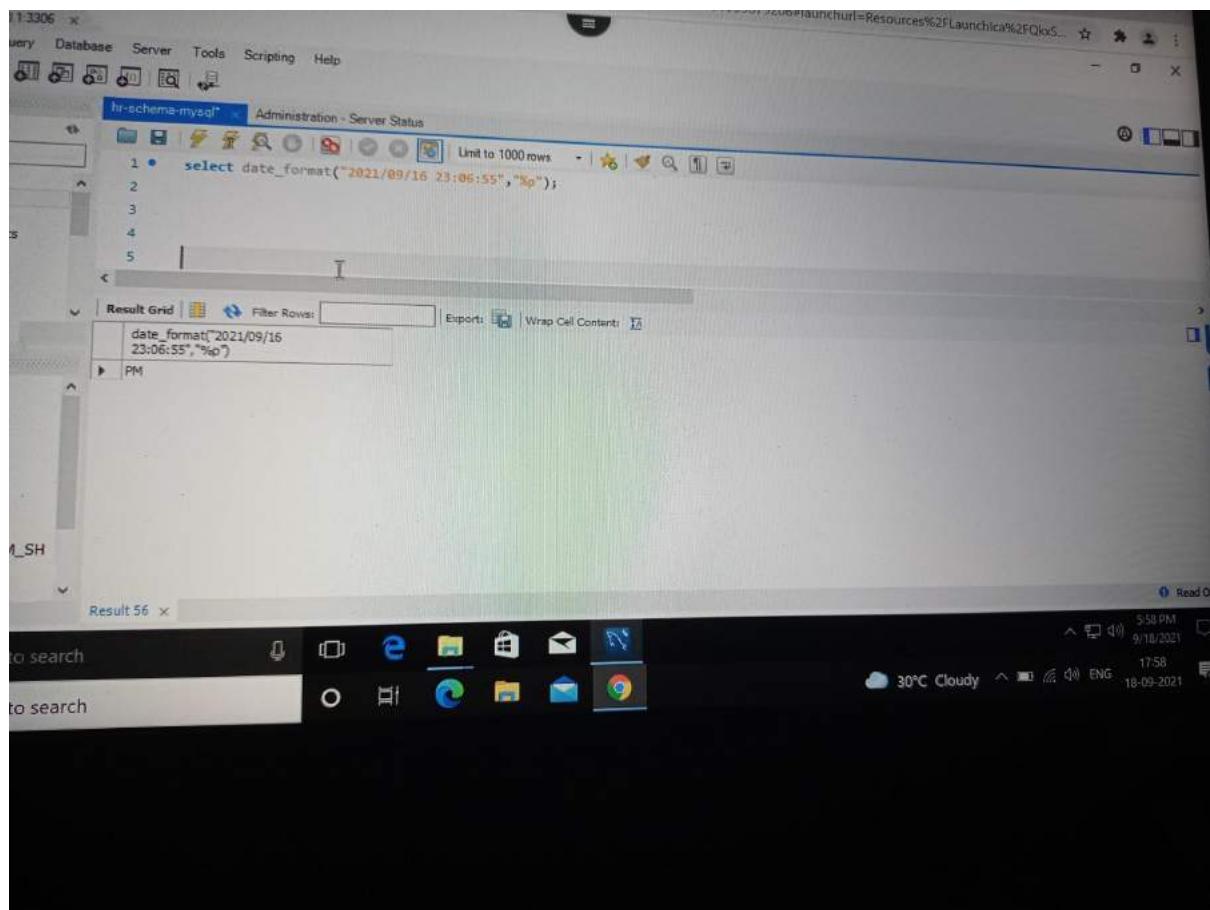
```
1 • select hire_date,date_format(hire_date,"%j")days from employees;
```

The results grid shows the following data:

	hire_date	days
1	1987-06-17	168
2	1989-09-21	264
3	1993-01-13	013
4	1990-01-03	003
5	1991-05-21	141
	1997-06-25	176
	1998-02-05	036
	1999-02-07	038
	1994-08-17	229
	1994-08-16	228
	1997-09-28	271
	1997-09-30	273
	1998-03-07	066

The status bar at the bottom right shows the system temperature as 30°C, a cloudy weather icon, and the date/time as 18-09-2023.





A screenshot of a computer monitor displaying MySQL Workbench. The interface shows a top menu bar with Database, Server, Tools, Scripting, and Help. Below the menu is a toolbar with various icons. A query editor window titled "hr-schema-mysql>" is open, showing the following SQL code:

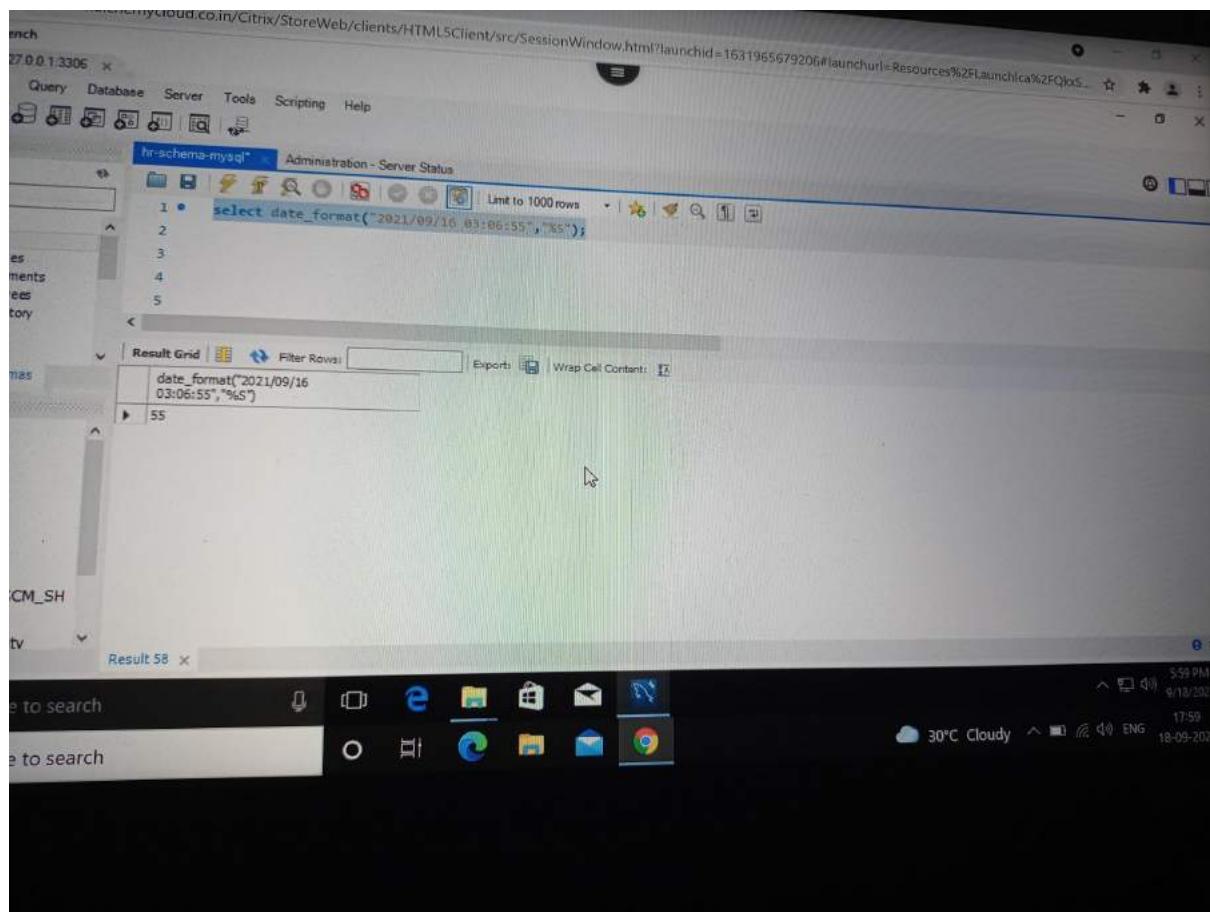
```
1 • select date_format("2021/09/16 03:06:55", "%p")
```

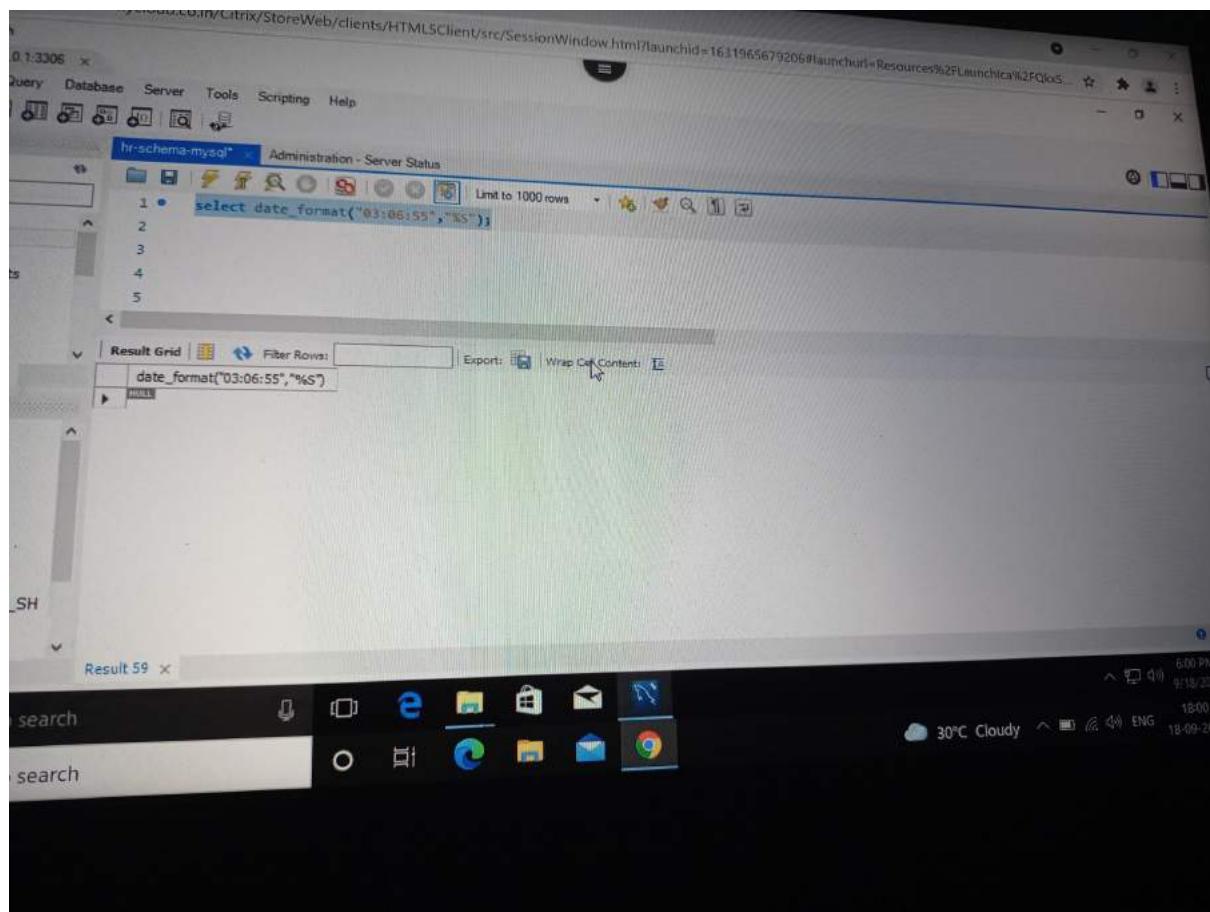
The result grid displays the output of the query:

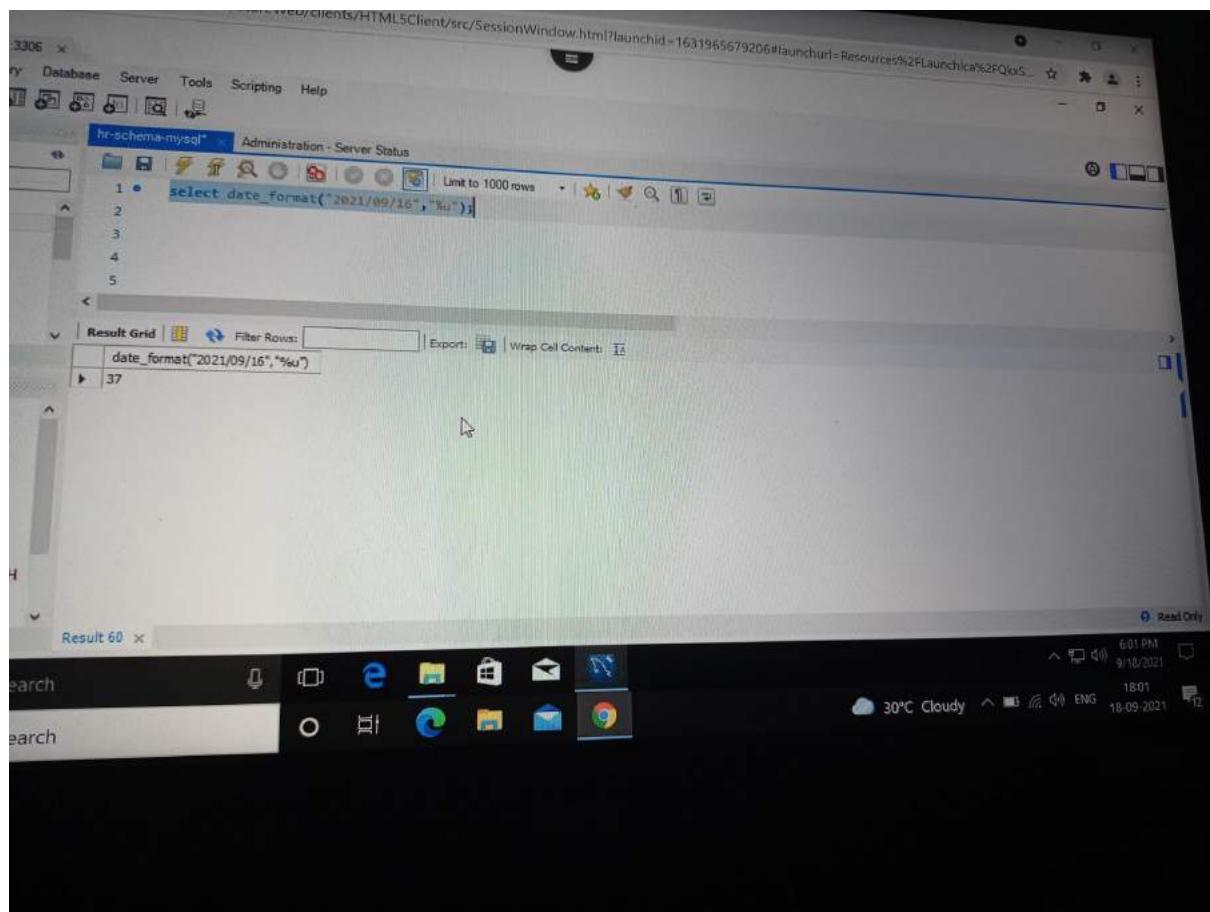
	date_format("2021/09/16 03:06:55", "%p")
1	AM

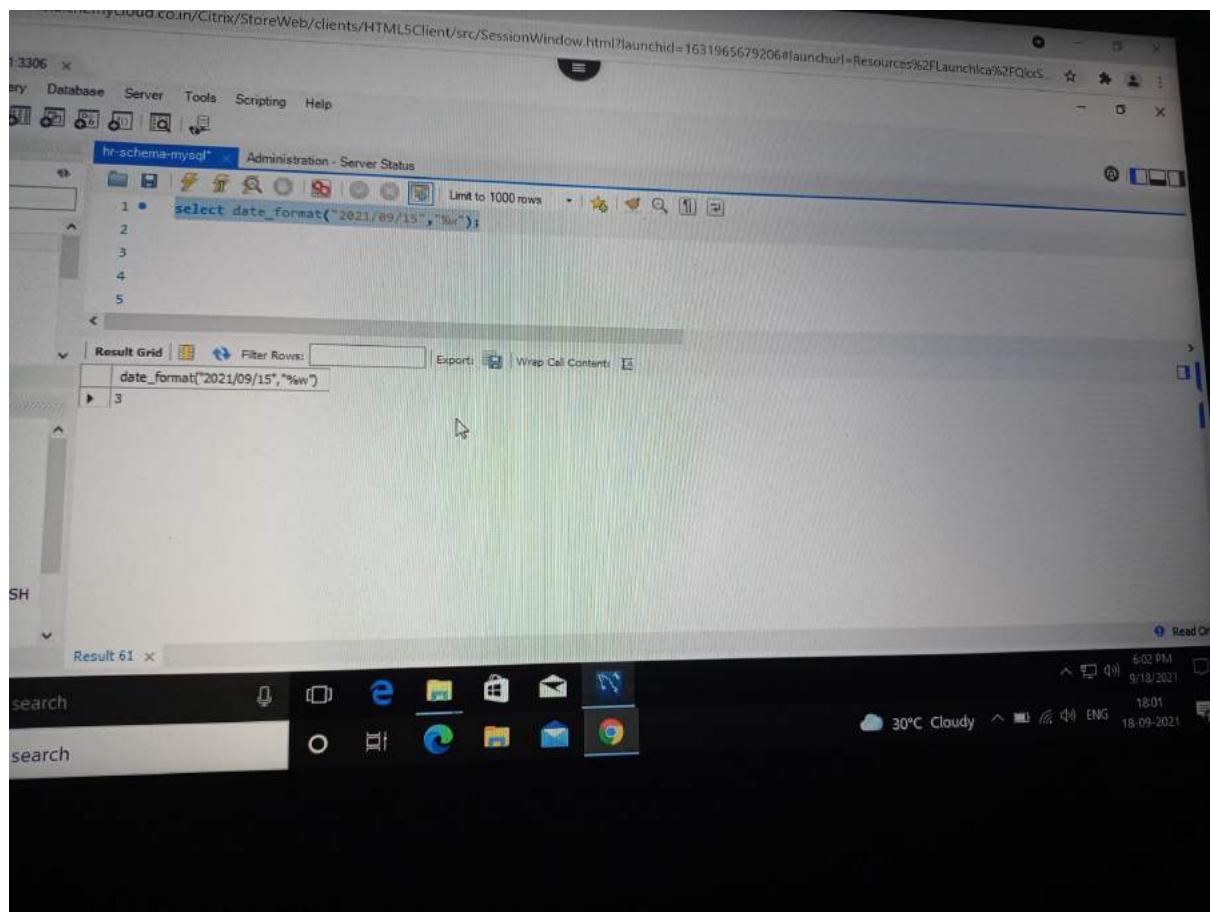
The system tray at the bottom right of the screen shows the following information:

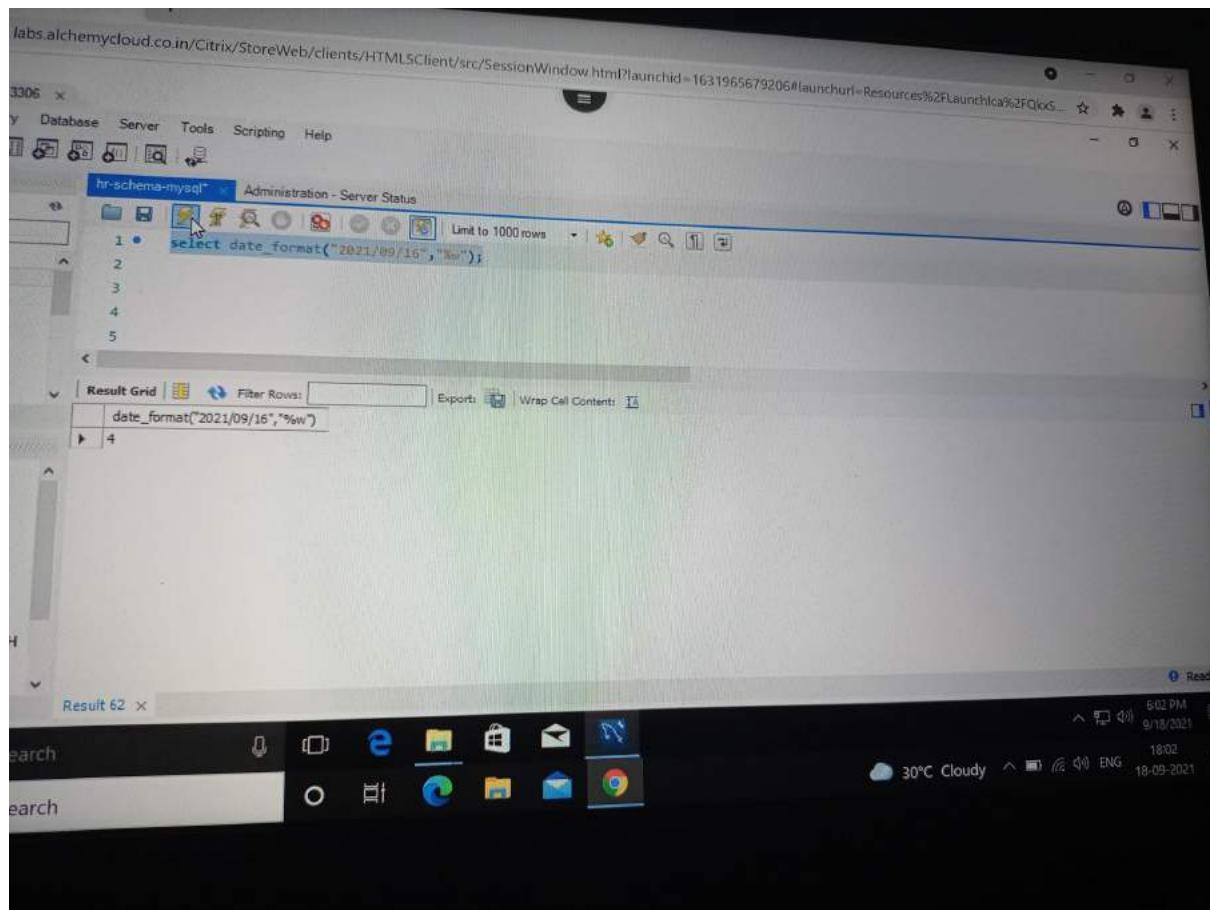
- 5:59 PM
- 9/18/2021
- 30°C Cloudy
- 17:58
- ENG
- 19-09-2021

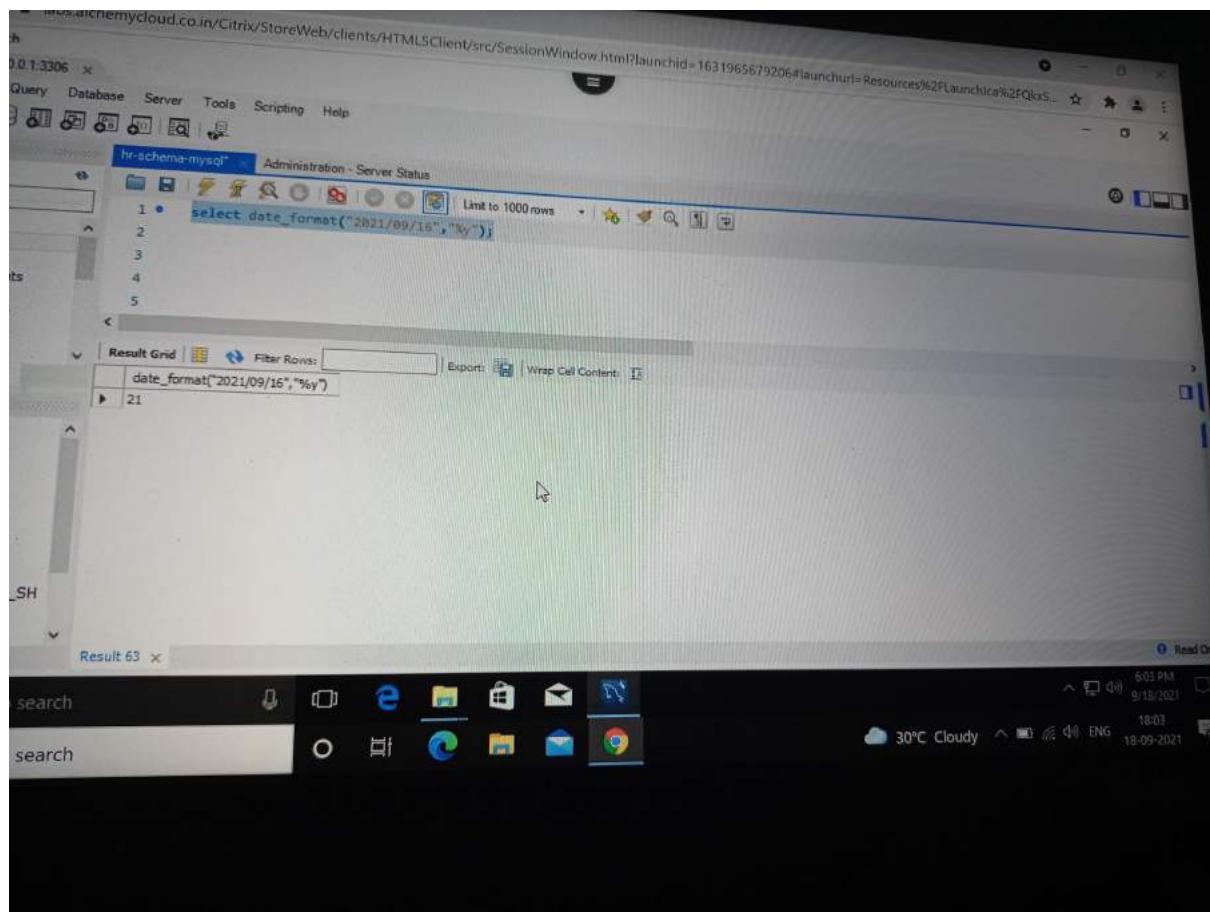


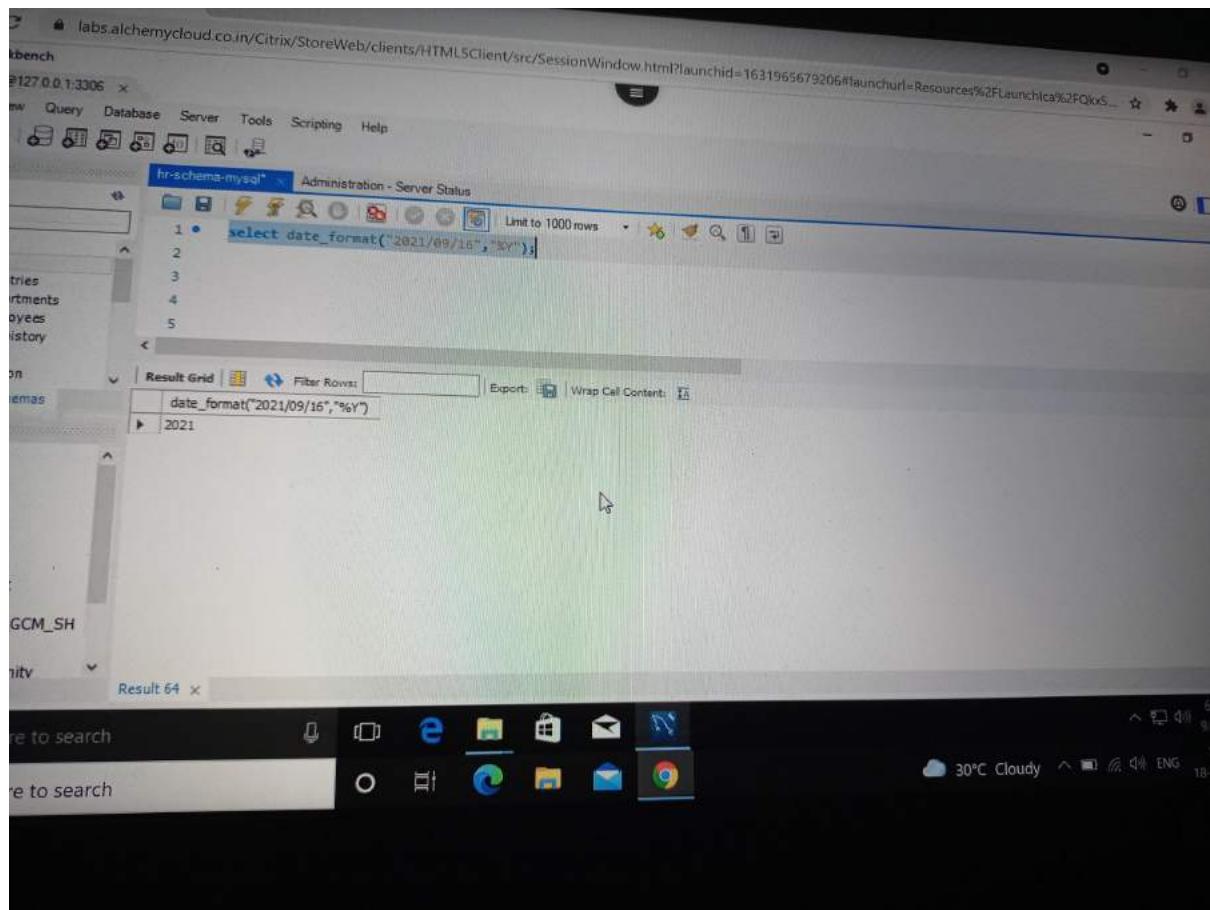


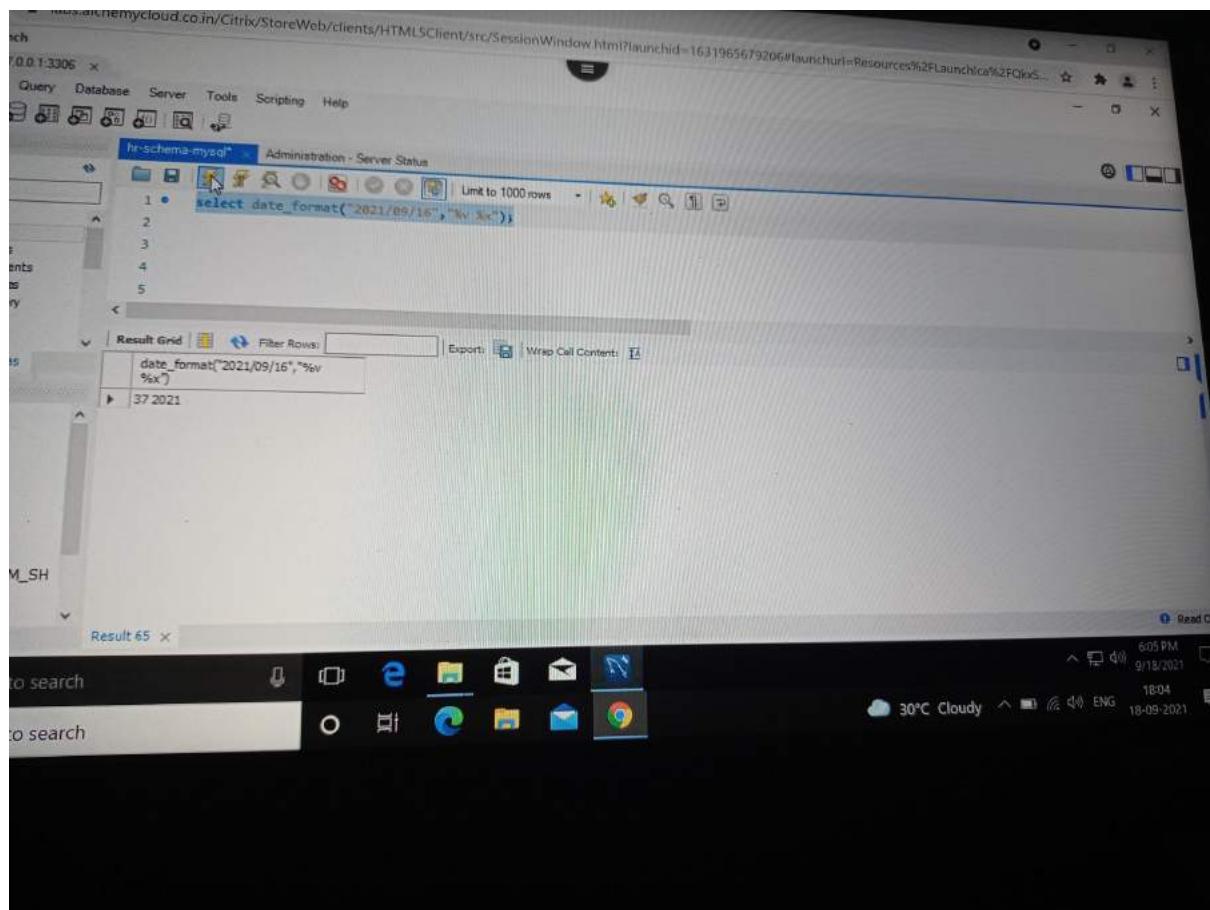


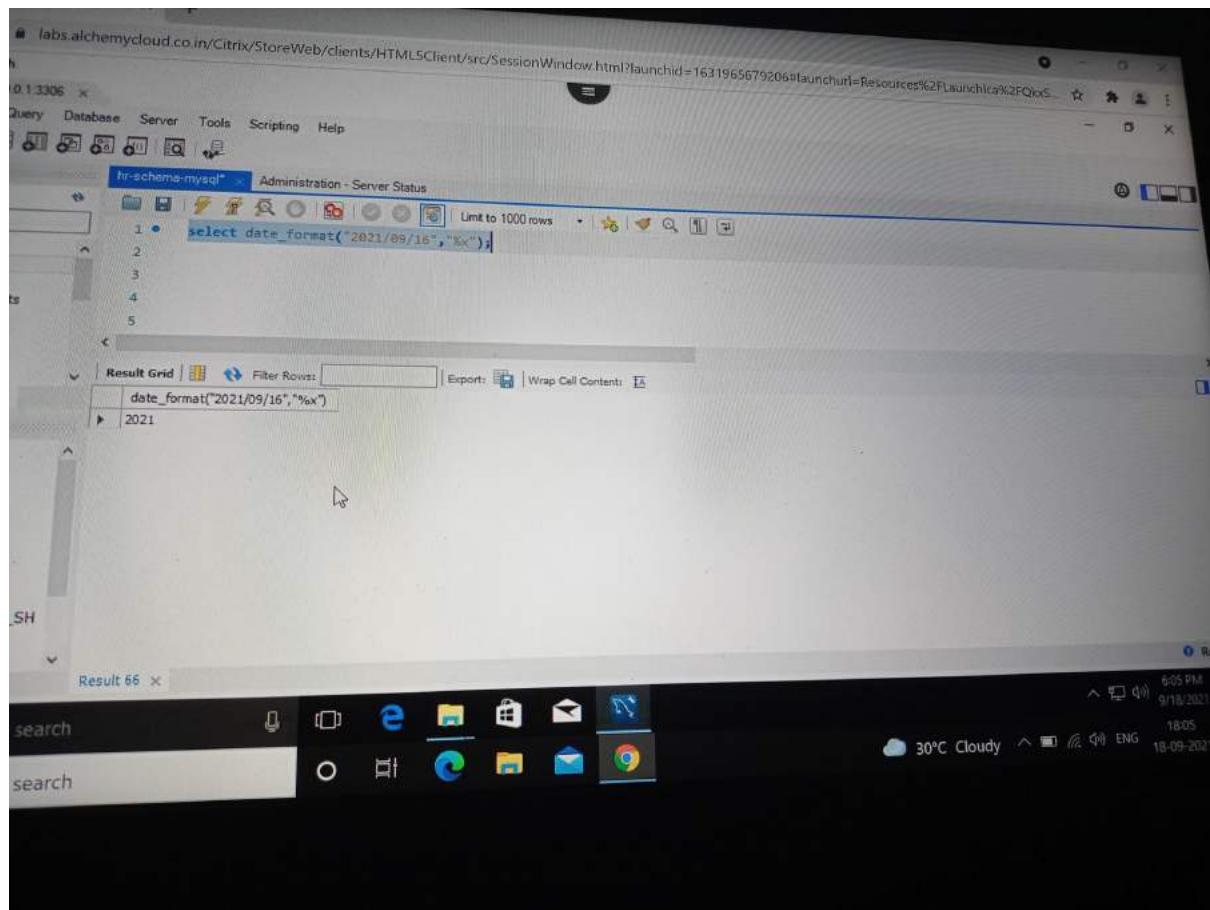


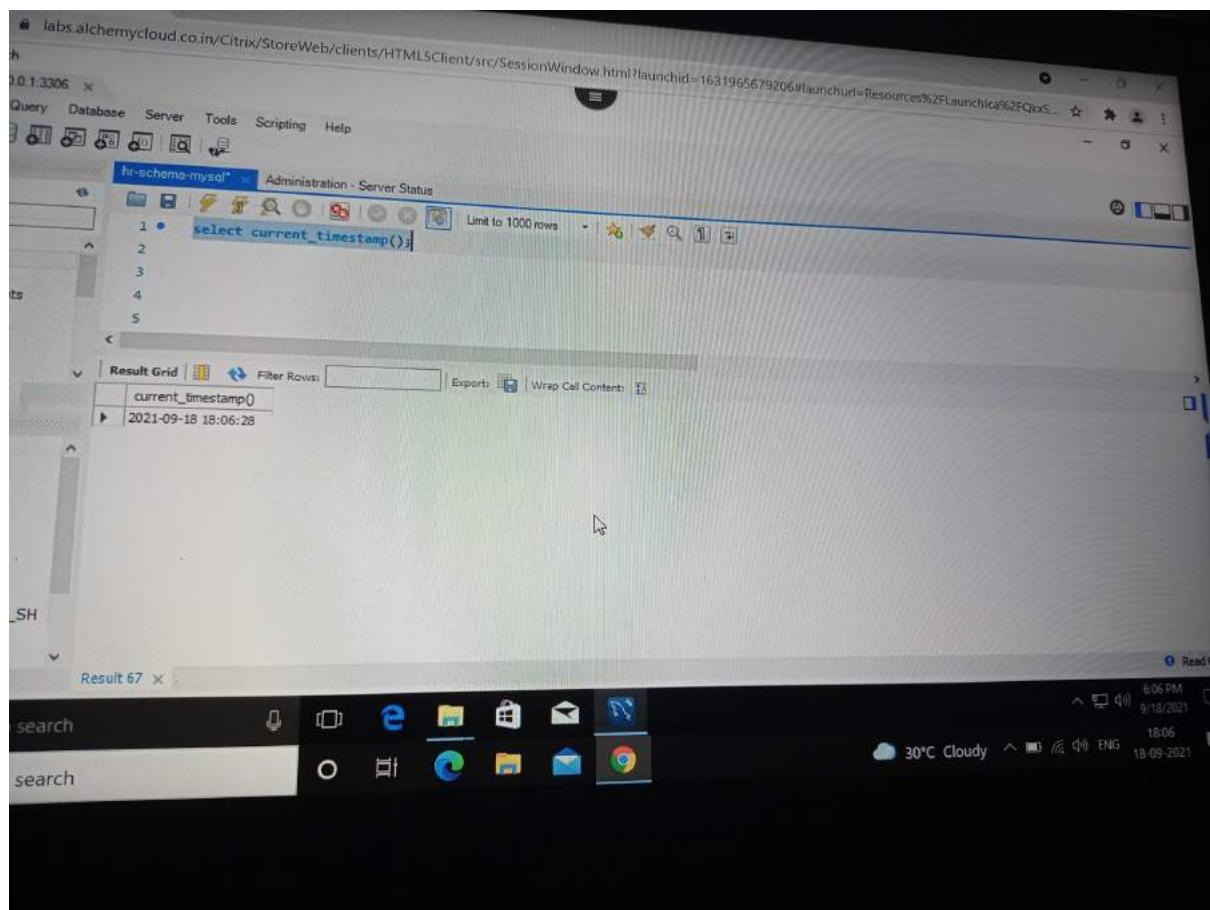


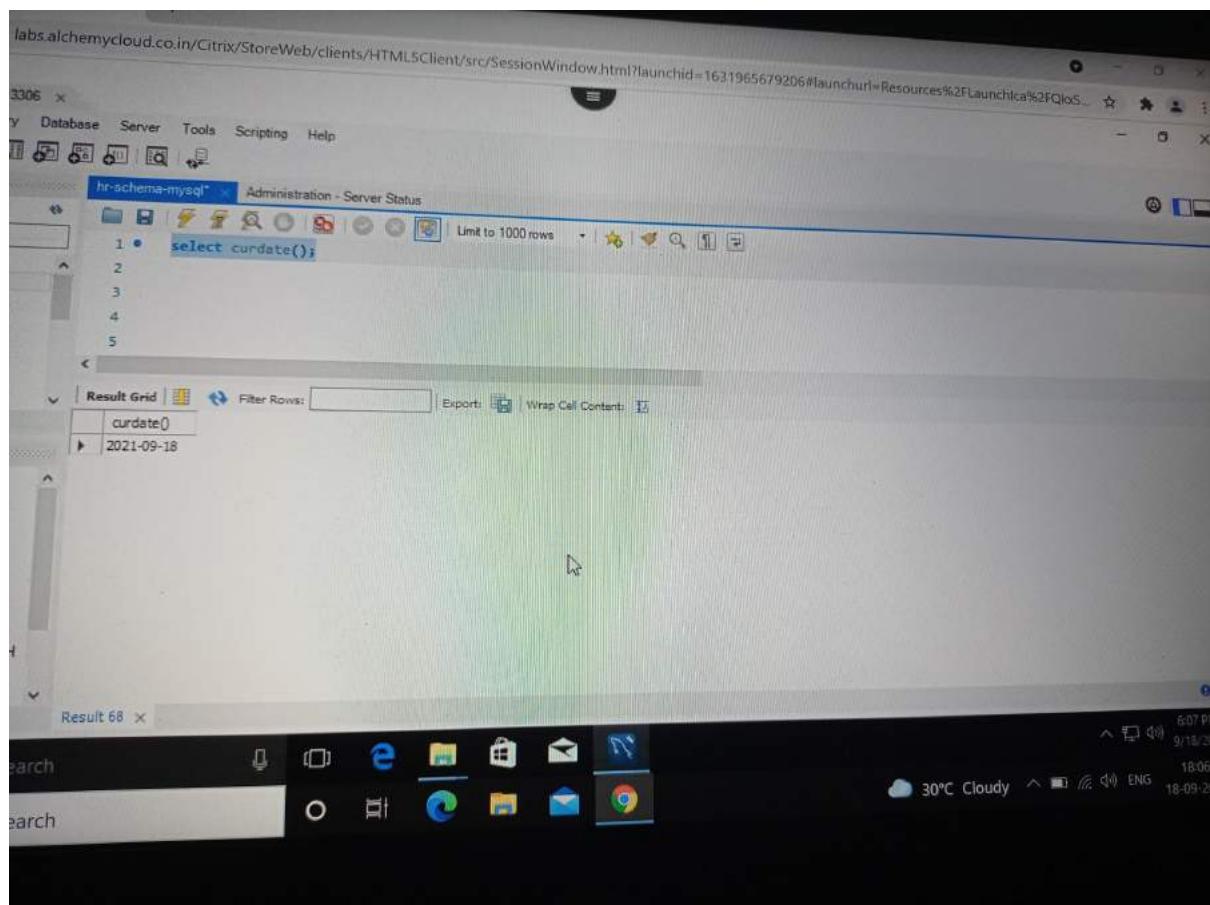


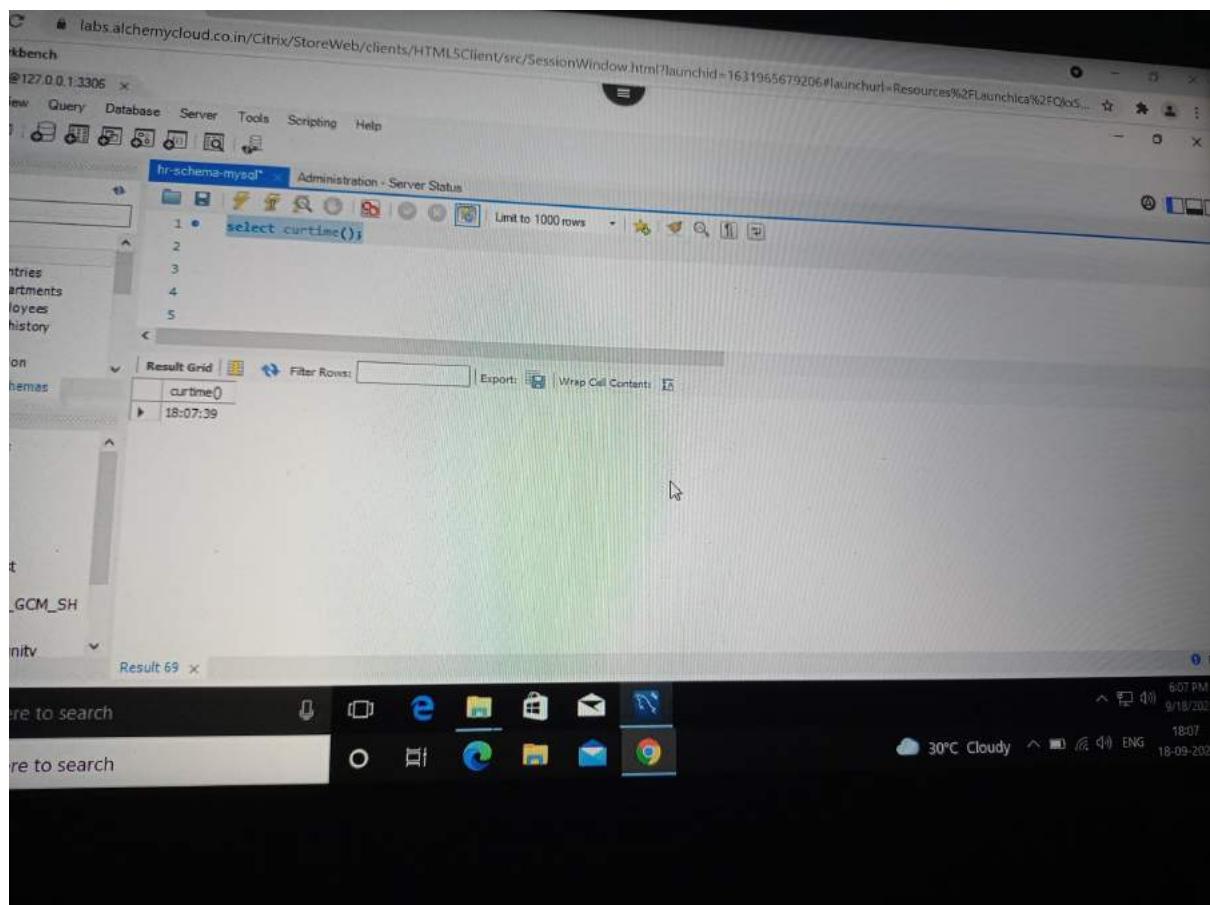


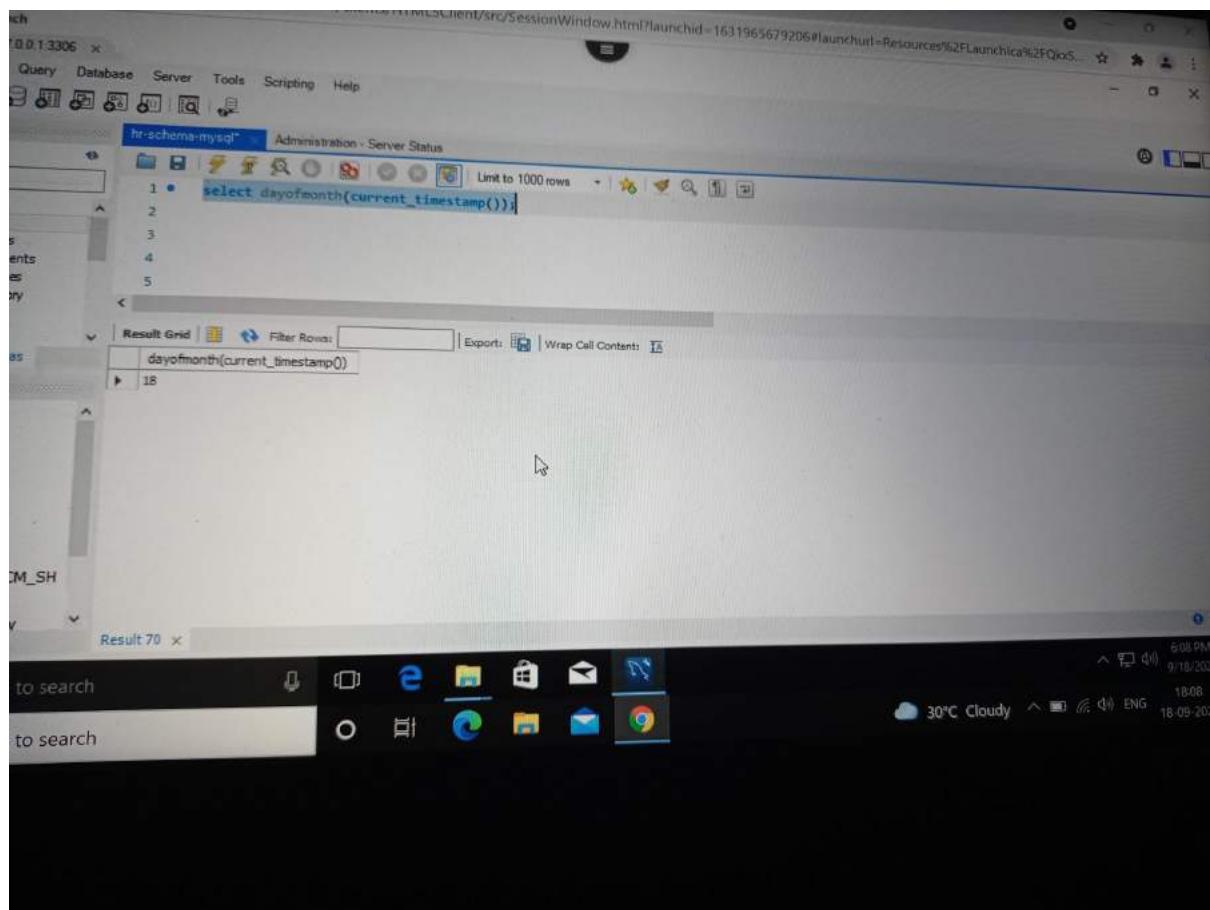


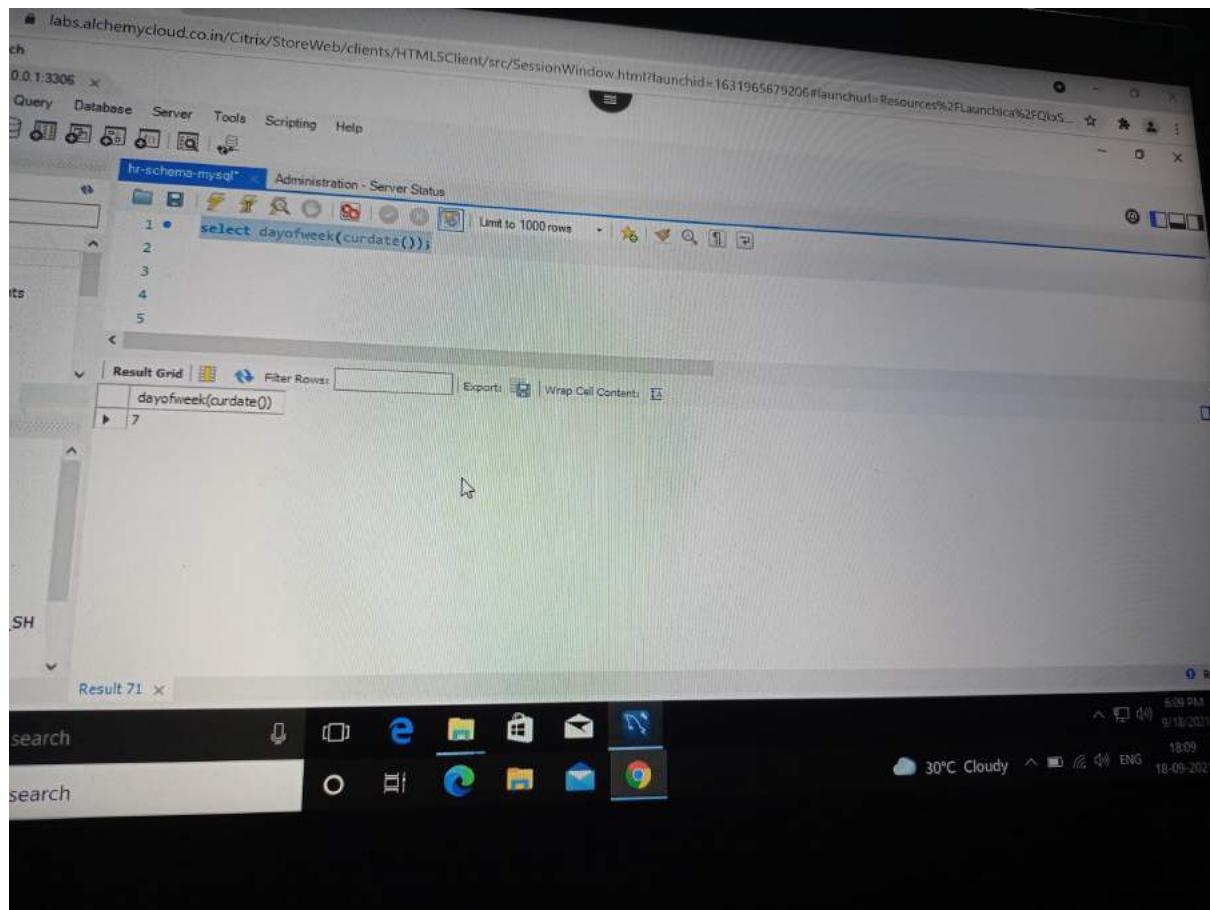


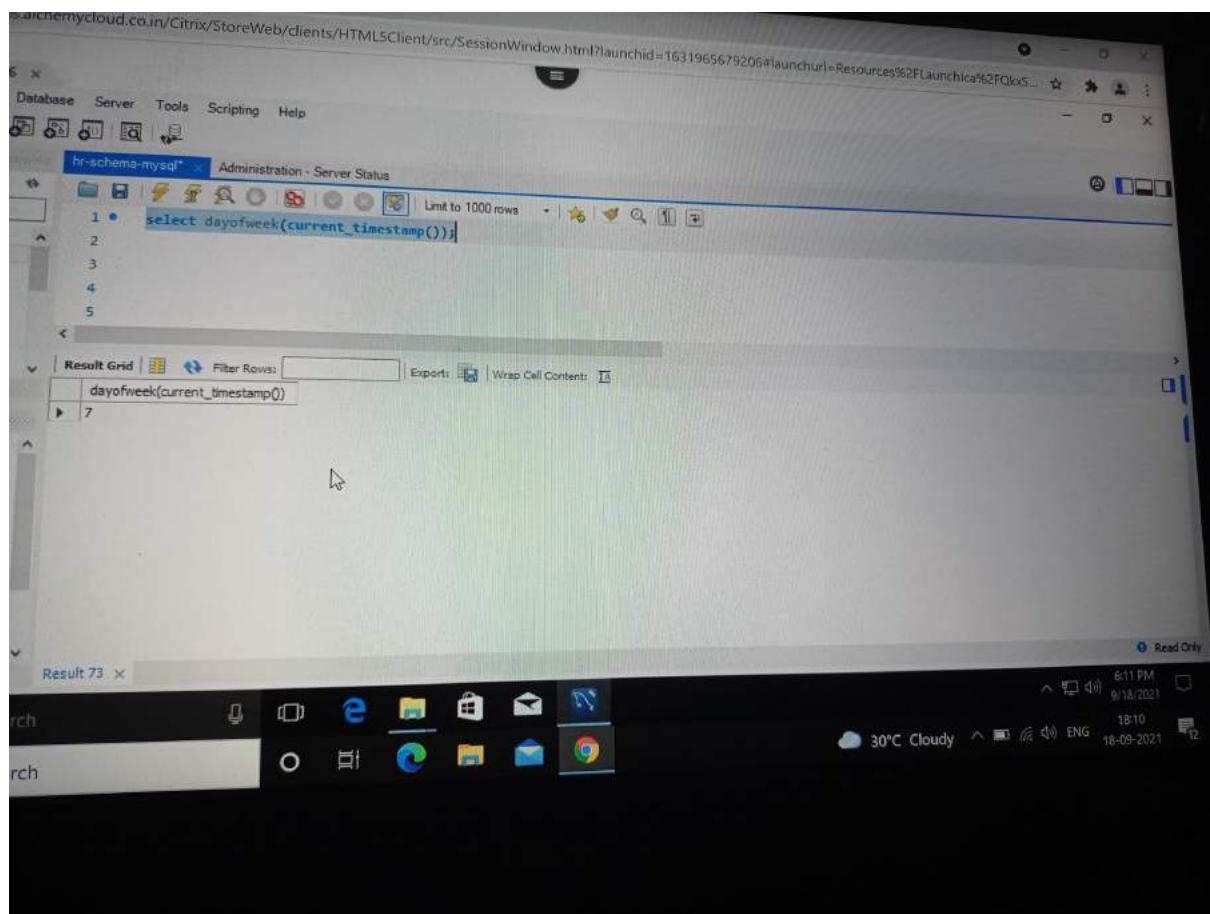


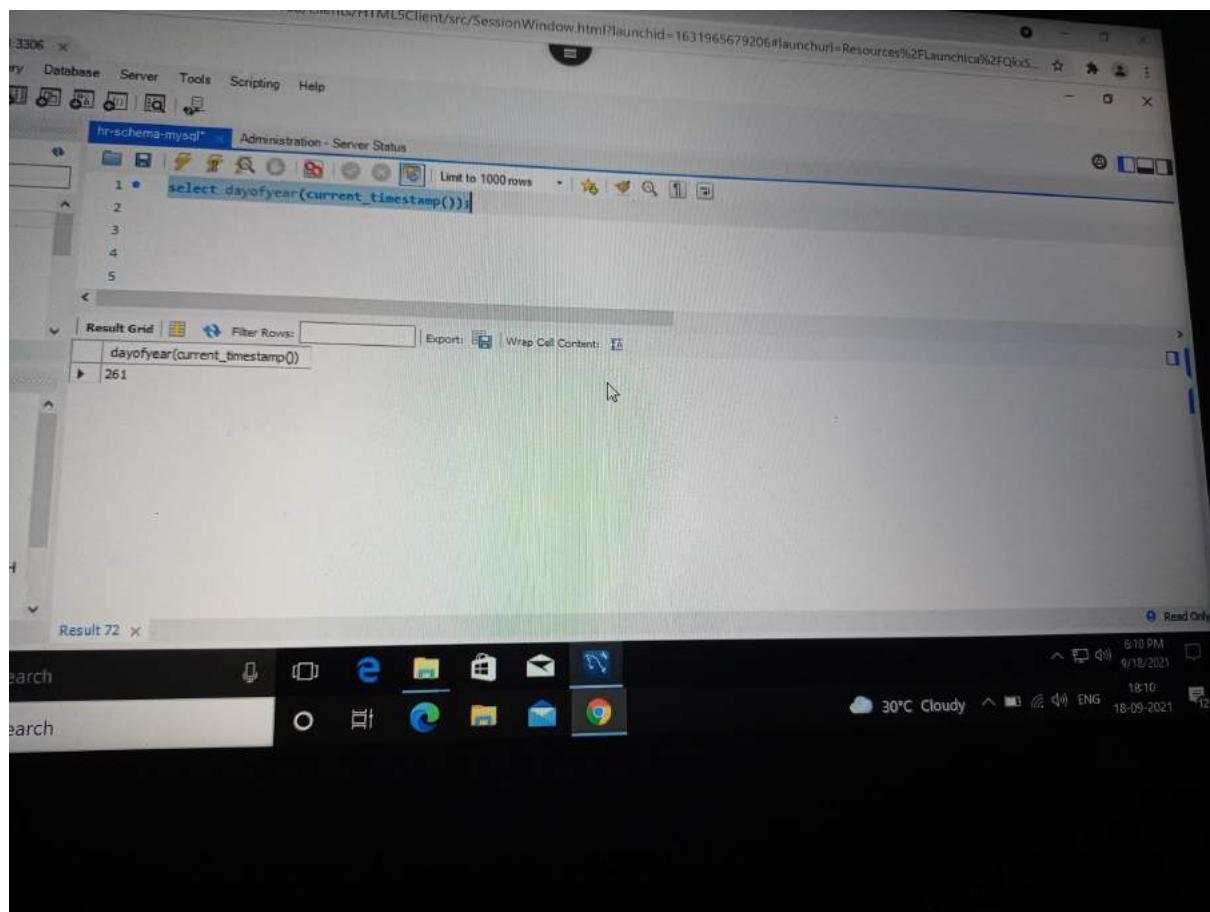












labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631965679206#launchurl=Resources%2FLaunchica%2FQoS...

File Database Server Tools Scripting Help

Administration - Server Status

```
1 • select employee_id, last_name, hire_date from employees where date_format(hire_date, 'yy') > 2000;
```

Result Grid | Filter Rows | Edit: | Export/Imports | Wrap Cell Contents |

employee_id	last_name	hire_date
128	Markle	2000-03-08
136	Phil tanker	2000-02-06
149	Zlotkey	2000-01-29
164	Marvins	2000-01-24
165	Lee	2000-02-23
166	Ande	2000-03-24
167	Banda	2000-04-21
173	Kumar	2000-04-21
179	Johnson	2000-01-04
183	Geoni	2000-02-03
199	Grant	2000-01-13
200	Willie	2000-

employees 24 ×

Search | Search |  6:13 PM 9/18/2021 18:13 30°C Cloudy ENG 18-09-2021

1.3306 x

File Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

```
1 • select employee_id, last_name, hire_date, date_format(hire_date, "%b") from employees where date_format(hire_date, "%Y") > 'jan 1990';
```

2.

3.

4.

5.

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

employee_id	last_name	hire_date	date_format(hire_date, "%b")
112	Urman	1998-03-07	Mar
115	Khoo	1995-05-18	May
117	Tobias	1997-07-24	Jul
118	Himuro	1998-11-15	Nov
120	Weiss	1996-07-18	Jul
122	Kaufung	1995-05-01	May
123	Vollman	1997-10-10	Oct
124	Mourgos	1999-11-16	Nov
125	Nayer	1997-07-16	Jul
126	Mikkilineni	1998-09-28	Sep
127	Landry	1999-01-14	Jan
128	Marie	2000-03-08	Mar
130	Atkinson	1997-10-30	Oct

Result 75 x

search

SH

51 9/11 ENG 18-0

30°C Cloudy

search

Windows Taskbar icons: File Explorer, Edge, Mail, Start, Task View, File Explorer, Mail, Chrome.

13306 x

Query Database Server Tools Scripting Help

N-schema-mysql* Administration - Server Status

```
1 • select employee_id,hire_date from employees where date_format(hire_date,"%Y-%m")>='1996-1';
```

2

3

4

5

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

employee_id	hire_date
105	1997-06-25
106	1998-02-05
107	1999-02-07
110	1997-09-28
111	1997-09-30
112	1998-03-07
113	1999-12-07
116	1997-12-24
117	1997-07-24
118	1998-11-15
119	1999-08-10
121	1997-04-10
123	1997-10-10

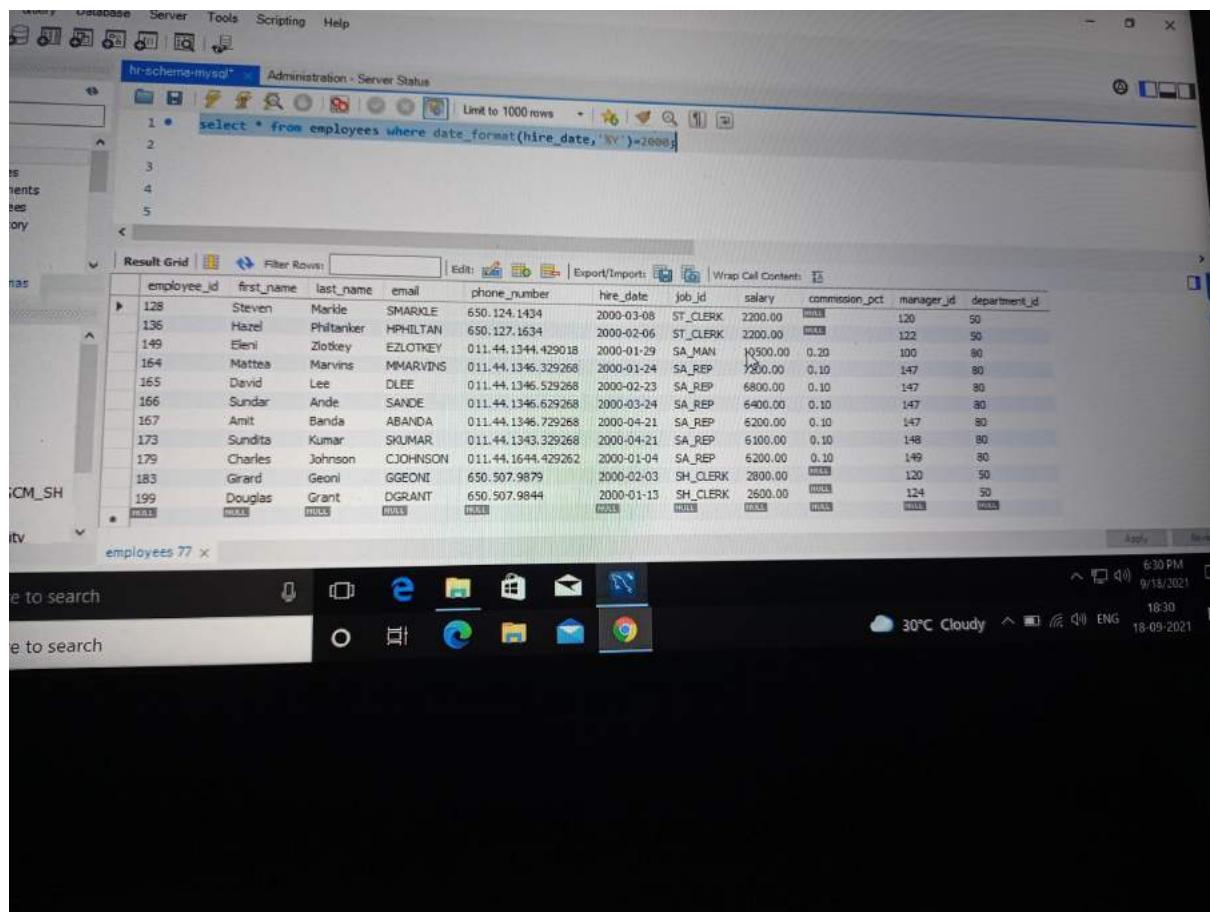
employees 76 x

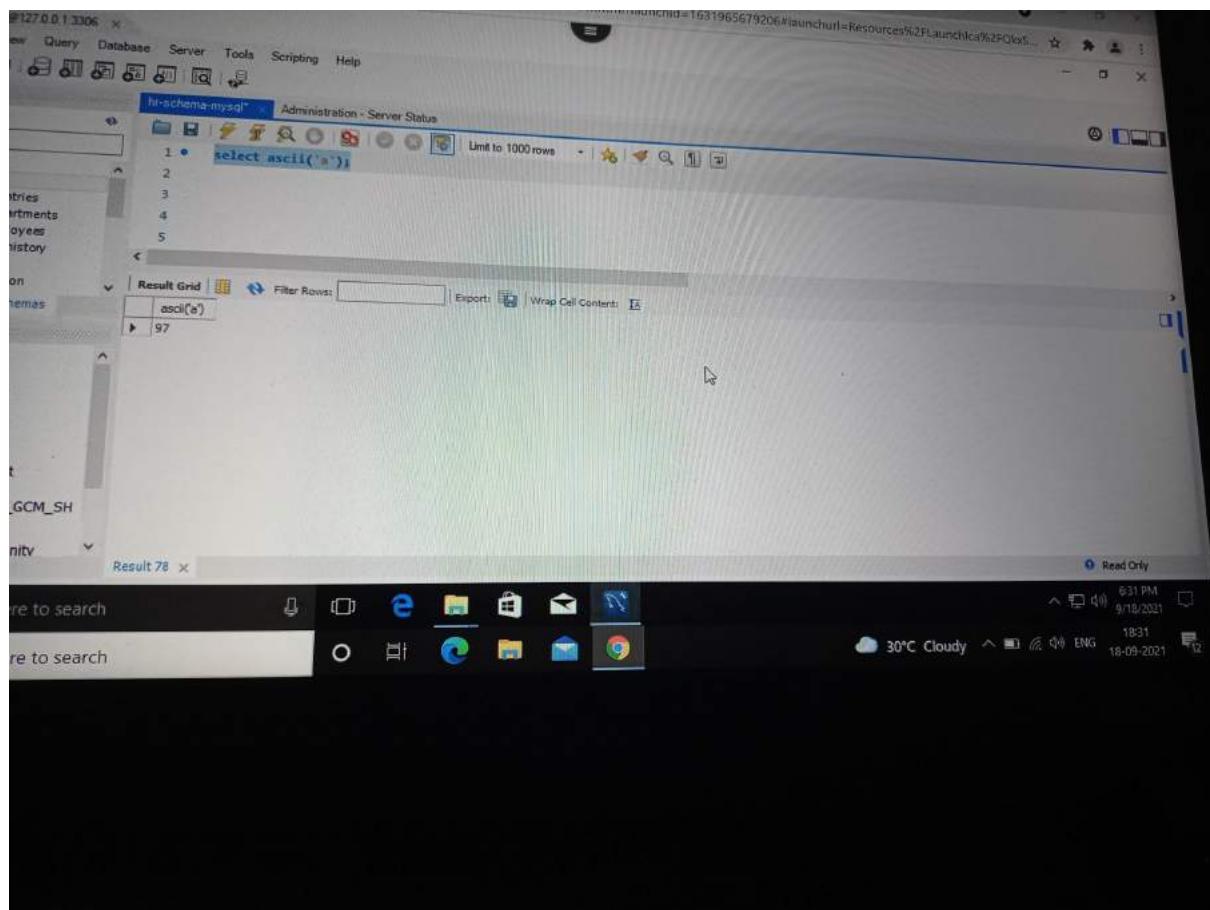
Apply

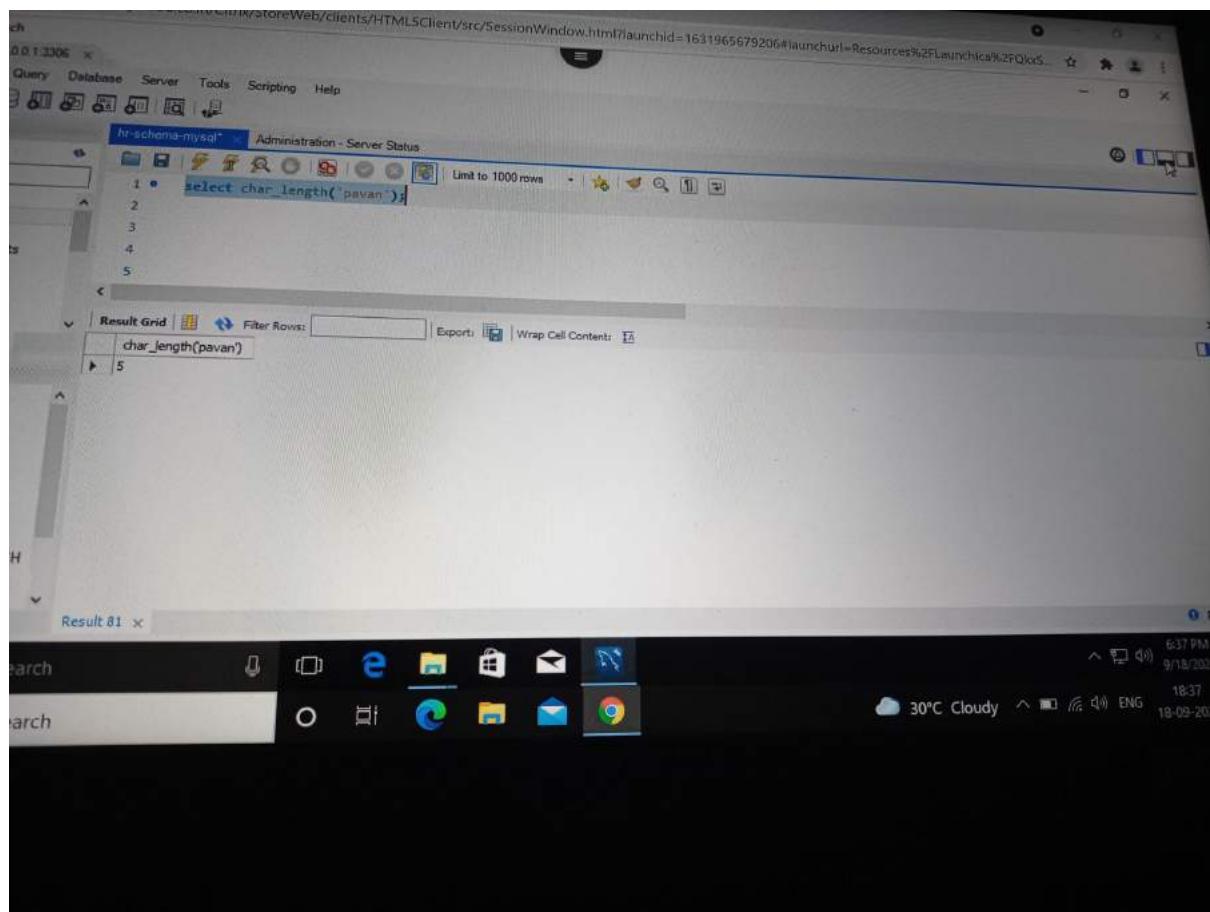
6:29 PM 9/18/2023 30°C Cloudy 18:29 ENG 18-09-2023

Search []

File [] Start [] Control Panel [] Mail [] Task View [] File Explorer [] Edge [] Mail [] Google Chrome []







Query Database Server Tools Scripting Help

Administration - Server Status

```
1 * select last_name,char_length(last_name)from employees;
```

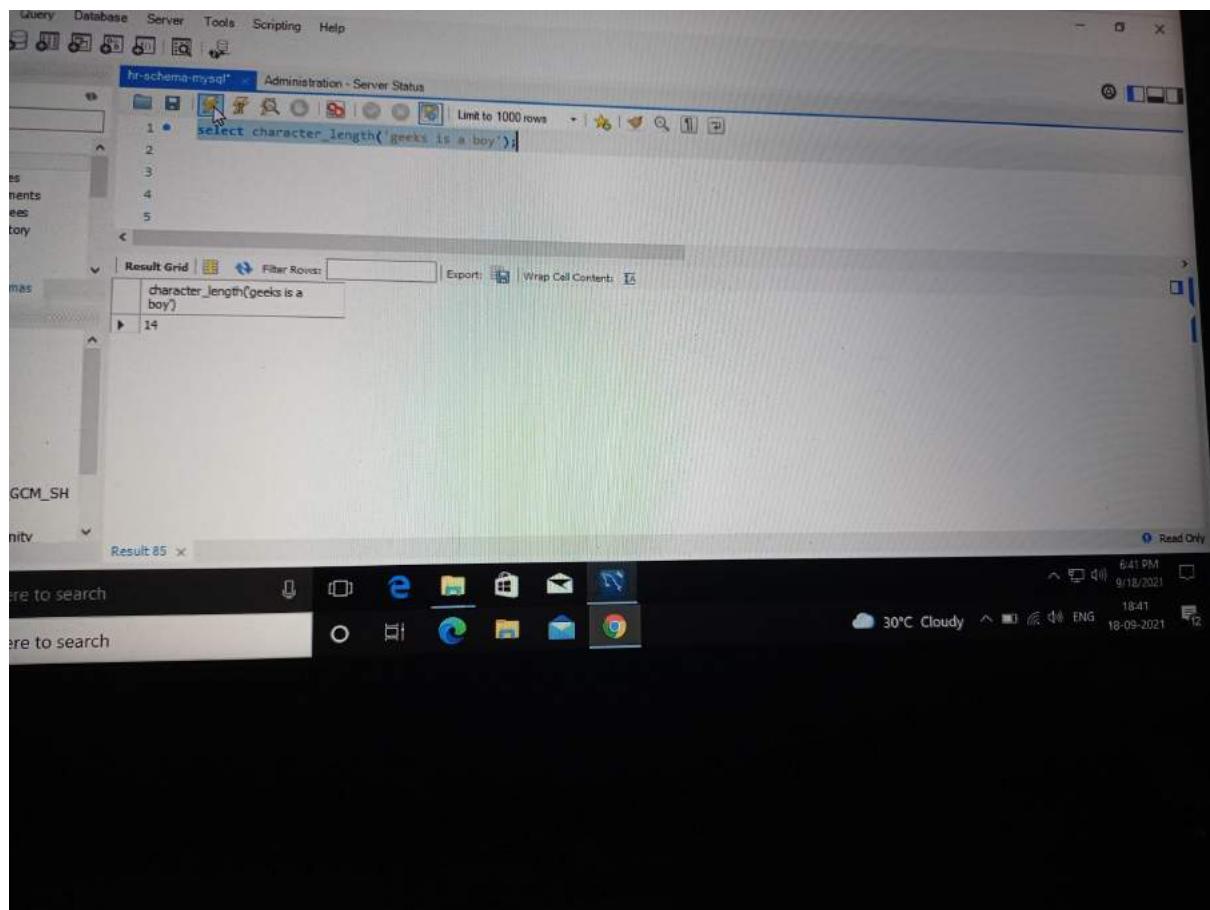
Result Grid | Filter Rows: Export: Wrap Cell Content: □

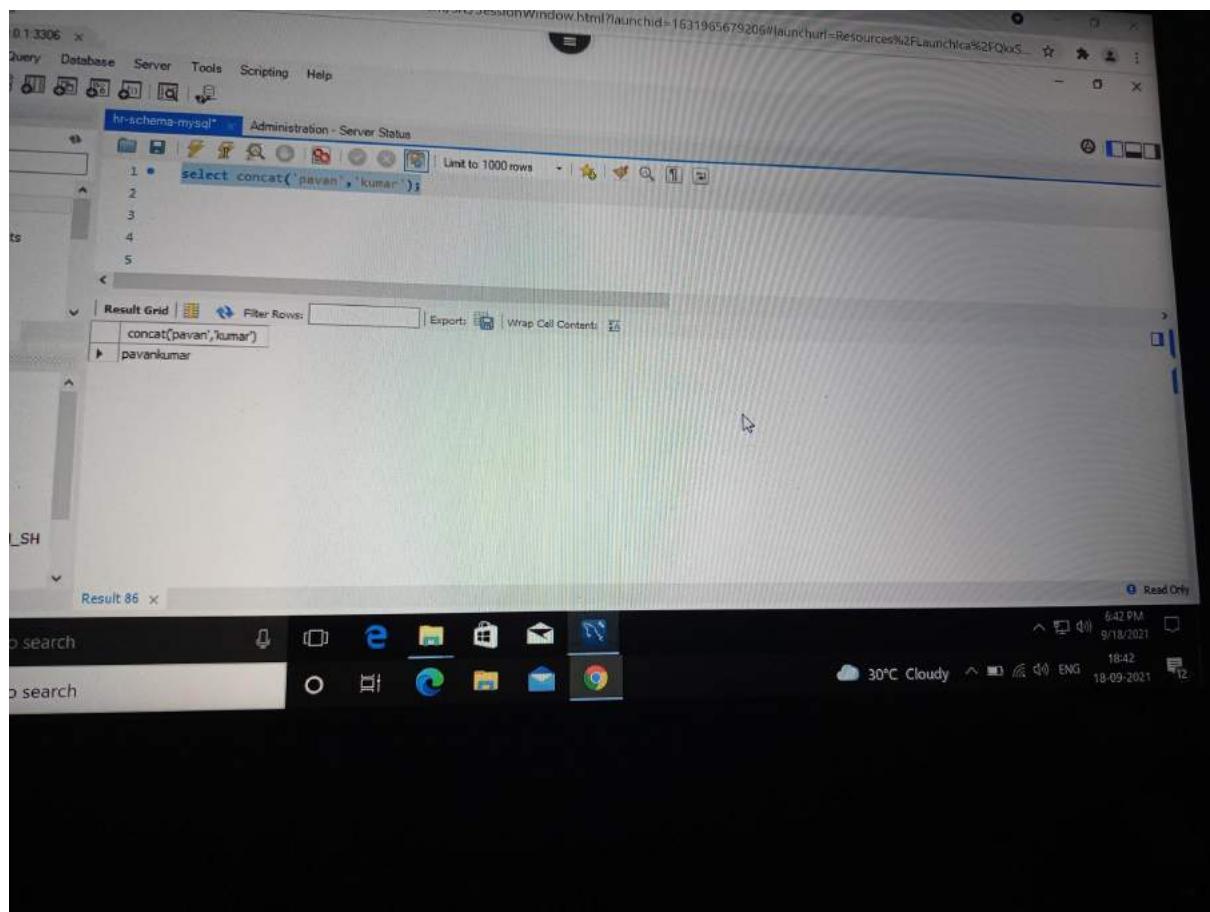
last_name	char_length(last_name)
2020_B84Gng	12
2020_B84Kochhar	15
2020_B84De Haan	15
Hunold	6
Ernst	5
Austin	6
Pataballa	9
Lorentz	7
Greenberg	9
Faviet	6
Chen	4
Spiro	7
Irmam	5

Result 82 ×

6:38 PM 9/19/2021 18:38 30°C Cloudy ENG 18-09-2021

A screenshot of the MySQL Workbench application. The main window displays a query results grid titled 'Result Grid'. The query executed is 'select last_name,char_length(last_name)from employees;'. The results show 82 rows of data, each containing a last name and its corresponding character length. The columns are labeled 'last_name' and 'char_length(last_name)'. The MySQL Workbench interface includes a toolbar at the top with various icons for database management, and a status bar at the bottom showing system information like date, time, and weather.





0.13306 x

Query Database Server Tools Scripting Help

Administration - Server Status

```
1 * select concat(first_name,last_name)fullname from employees;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 87

fullname
Steven2020_B84King
Nerena2020_B84Kochhar
Lex2020_B84De Haan
AlexanderHunold
BruceErnst
DavidAustin
ValliPataballa
DianaLorentz
NancyGreenberg
DaniellFaviet
JohnChen
IsmaelSciarra
InneManueellIman

o search o search

30°C Cloudy 18:41 18-09-2023

A screenshot of the MySQL Workbench application. The main window displays a query editor with the following SQL code:

```
1 * select concat(first_name,last_name)fullname from employees;
```

The results are shown in a grid titled "Result Grid" with one column labeled "fullname". The data consists of 14 rows of employee names concatenated from the "employees" table. The operating system taskbar at the bottom shows various icons and a weather widget indicating 30°C and cloudy conditions.

A screenshot of a computer monitor displaying a MySQL Workbench session window. The title bar shows the URL: `http://127.0.0.1:4567/clients/HTML5Client/src/SessionWindow.html?launchId=1631965679205&launchUrl=Resources%2FLaunchica%2FQloS...`. The menu bar includes Database, Server, Tools, Scripting, and Help. The main area shows a query editor with the following SQL code:

```
1 select concat(last_name, " works in ", department_id, " with job_id ", job_id) from employees;
```

The Result Grid displays the output of the query, listing employees and their department and job details:

concat(last_name, " works in ", department_id, " with job_id ", job_id)
2020_B84King works in 90 with job_id AD_PRES
2020_B84Kochhar works in 90 with job_id AD_VP
2020_B84De Haan works in 90 with job_id AD_VP
Hunold works in 60 with job_id IT_PROG
Ernst works in 60 with job_id IT_PROG
Austin works in 60 with job_id IT_PROG
Pataballa works in 60 with job_id IT_PROG
Lorentz works in 60 with job_id IT_PROG
Greenberg works in 100 with job_id FI_MGR
Faviet works in 100 with job_id FI_ACCOUNT
Chen works in 100 with job_id FI_ACCOUNT
Sciarras works in 100 with job_id FI_ACCOUNT

The status bar at the bottom right shows the date and time: 9/18/2021 6:45 PM, and system information: 30°C Cloudy, 1844, ENG, 18-09-2021.

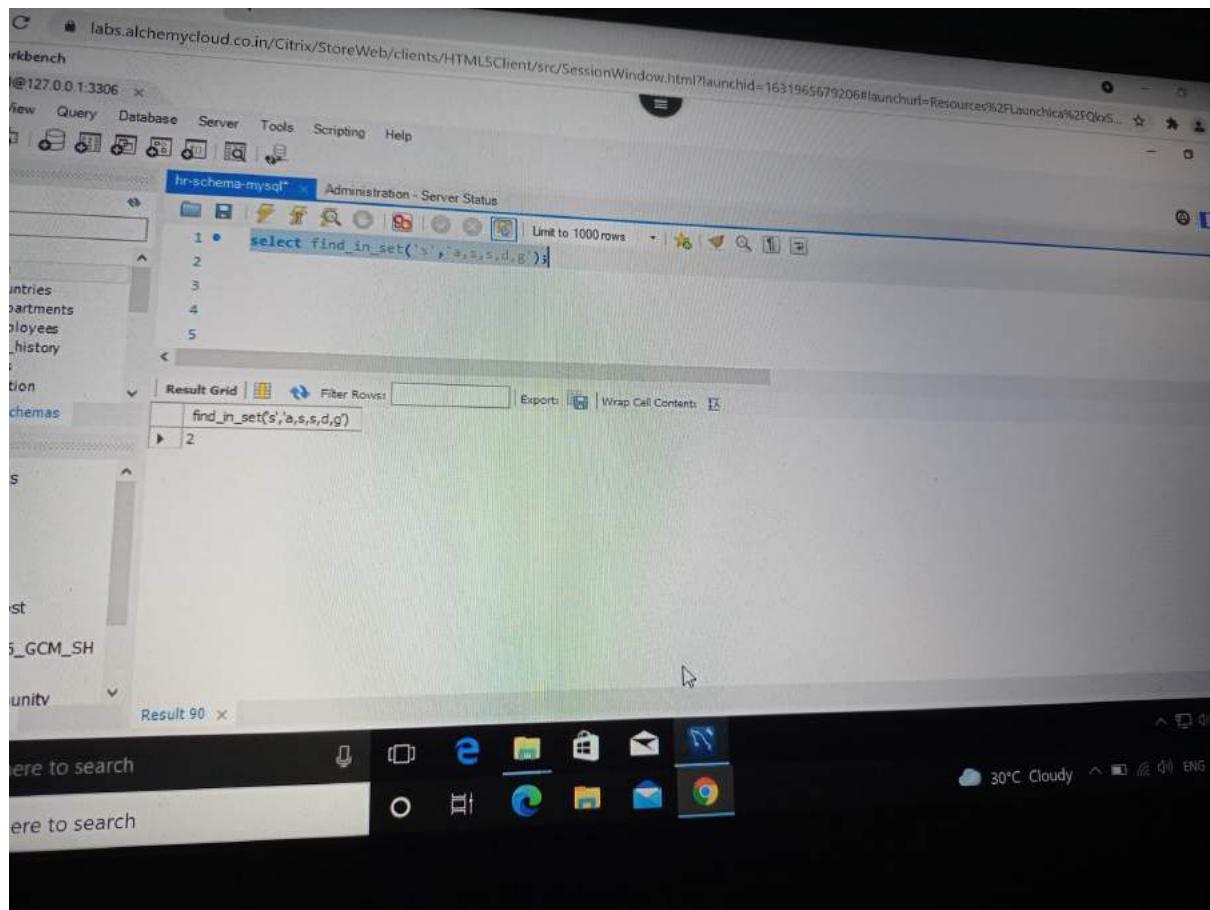
The screenshot shows a MySQL Workbench interface with a query editor and a results grid. The query is:

```
1 * select concat_ws(' ',last_name," works in ",department_id," with job_id ",job_id) from employees;
```

The results grid displays the concatenated names and department information for each employee. The first few rows are:

concat_ws(' ',last_name," works in ",department_id," with job_id ",job_id)
2020_B84Kng_ works in _90_ with job_id _AD_PRES
2020_B84Kochhar_ works in _90_ with job_id _AD_VP
2020_B84De Haan_ works in _90_ with job_id _AD_ASST
Hunold_ works in _60_ with job_id _IT_PROG
Ernst_ works in _60_ with job_id _IT_PROG
Austin_ works in _60_ with job_id _IT_PROG
Pataballa_ works in _60_ with job_id _IT_PROG
Lorentz_ works in _60_ with job_id _IT_PROG
Greenberg_ works in _100_ with job_id _FI_MGR
Faviet_ works in _100_ with job_id _FI_ACCOUNT
Chen_ works in _100_ with job_id _FI_ACCOUNT
Solomon_ works in _100_ with job_id _FI_ACCOUNT

The status bar at the bottom right shows the date as 18-09-21.



7.0.0.1.3306

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • select first_name,instr(first_name,'a') from employees;
```

Result Grid | Filter Rows: [] | Export: | Wrap Cell Content: []

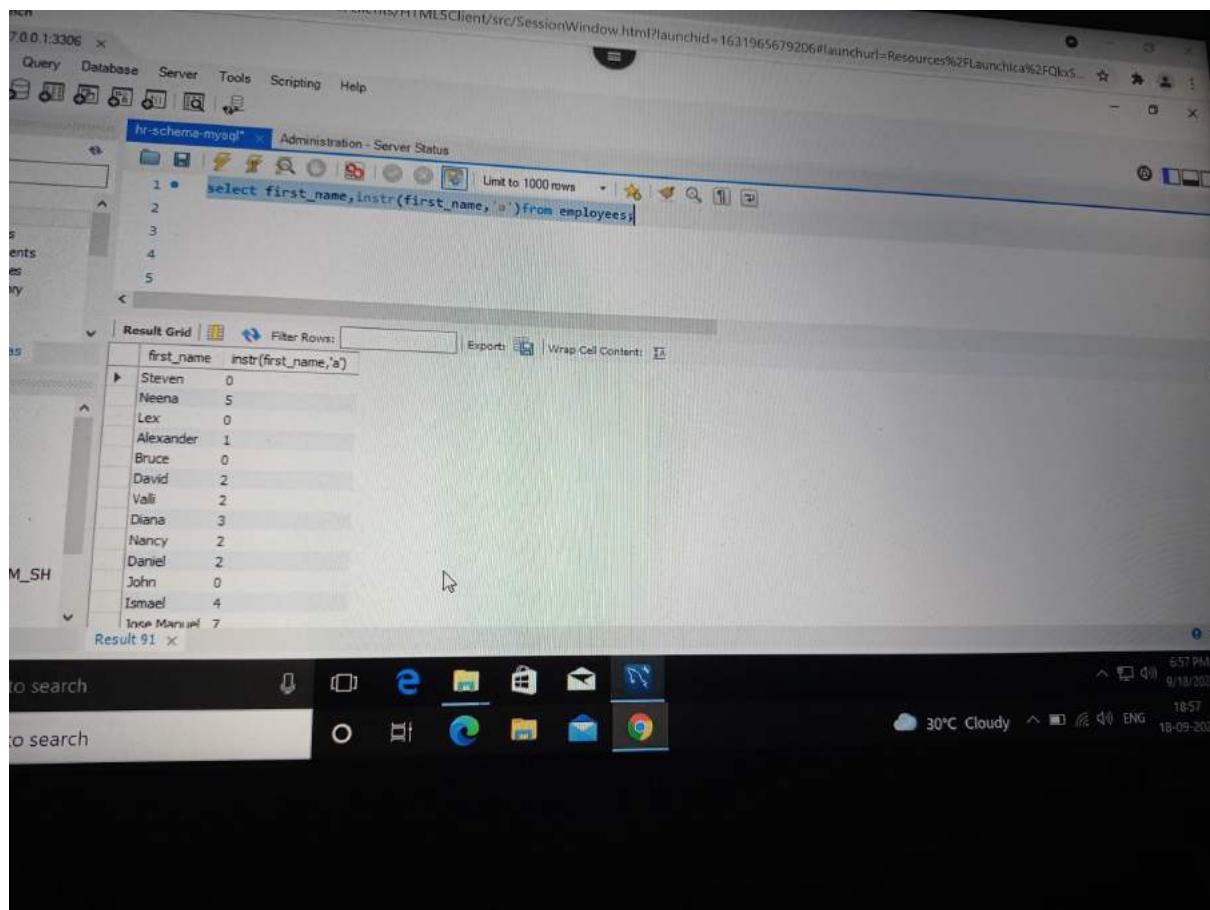
first_name	instr(first_name,'a')	
Steven	0	
Neena	5	
Lex	0	
Alexander	1	
Bruce	0	
David	2	
Valli	2	
Diana	3	
Nancy	2	
Daniel	2	
John	0	
Ismail	4	
Irene	Manual	7

Result 91 ×

to search

to search

6:57 PM 9/18/2023 30°C Cloudy 18:57 ENG 18-09-2023



abs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631965679206#launchurl=Resources%2FLaunchCa%2PQkx5...

306 X

Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

1 • select last_name,instr(last_name,'o')from employees;

2

3

4

5

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

last_name	instr(last_name,'o')
2020_B84Kng	0
2020_B84Kochhar	10
2020_B84De Haan	0
Hunold	4
Ernst	0
Austin	0
Pataballa	0
Lorentz	2
Greenberg	0
Faviet	0
Chen	0
Sciarras	0
Irrman	0

Result 94 X

Search []

Windows Taskbar icons: File Explorer, Edge, Mail, Start, Task View, File Explorer, Mail, Chrome.

System tray: Search, 30°C Cloudy, 18:59, ENG, 18-09-2021.

The screenshot shows a MySQL Workbench interface with a query editor and a results grid. The query editor contains the following SQL code:

```
1 • select last_name,ucase(last_name)from employees;
```

The results grid displays the following data:

last_name	ucase(last_name)
2020_B84King	2020_B84KING
2020_B84Kochhar	2020_B84KOCHHAR
2020_B84De Haan	2020_B84DE HAAN
Hunold	HUNOLD
Ernst	ERNST
Austin	AUSTIN
Pataballa	PATABALLA
Lorentz	LORENTZ
Greenberg	GREENBERG
Faviet	FAVIET
Chen	CHEN
Sciarrra	SCIARRA
Irman	IRMAN

At the bottom right of the screen, there is a system tray with icons for search, battery, signal strength, and a date/time indicator (18-09-2023).

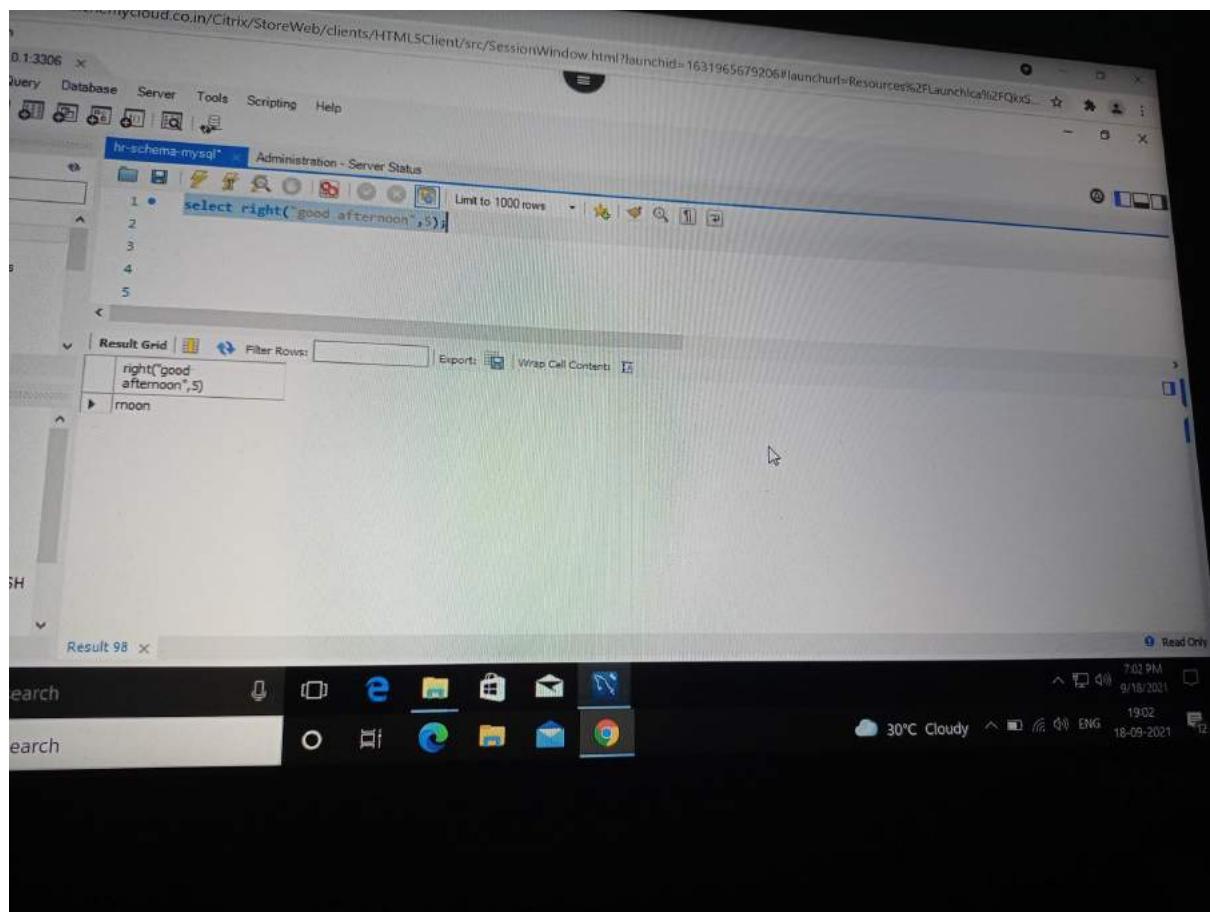
A screenshot of a MySQL Workbench session window titled "hr-schema=mysql". The main area shows a SQL editor with the following code:

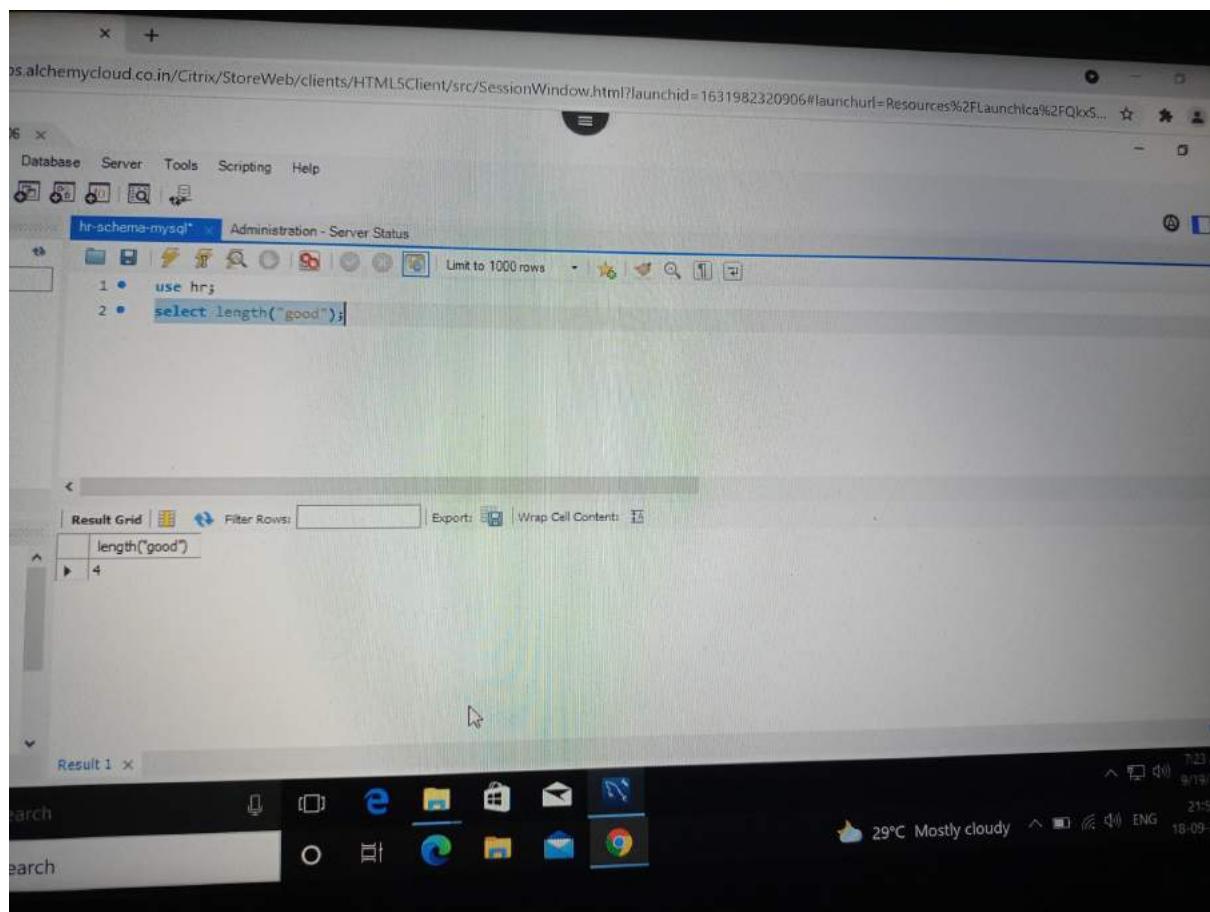
```
1 • select left("good afternoon",5);
```

The results grid below shows the output of the query:

	Result Grid
1	left("good afternoon",5)
2	good

The status bar at the bottom right indicates the following information: 7:02 PM, 9/18/2021, 19:01, 30°C Cloudy, ENG, 18-09-2021.





s.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQkxS...

Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • use hr;
2 • select locate('a','good afternoon');
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

locate('a','good afternoon')

Result 2 x

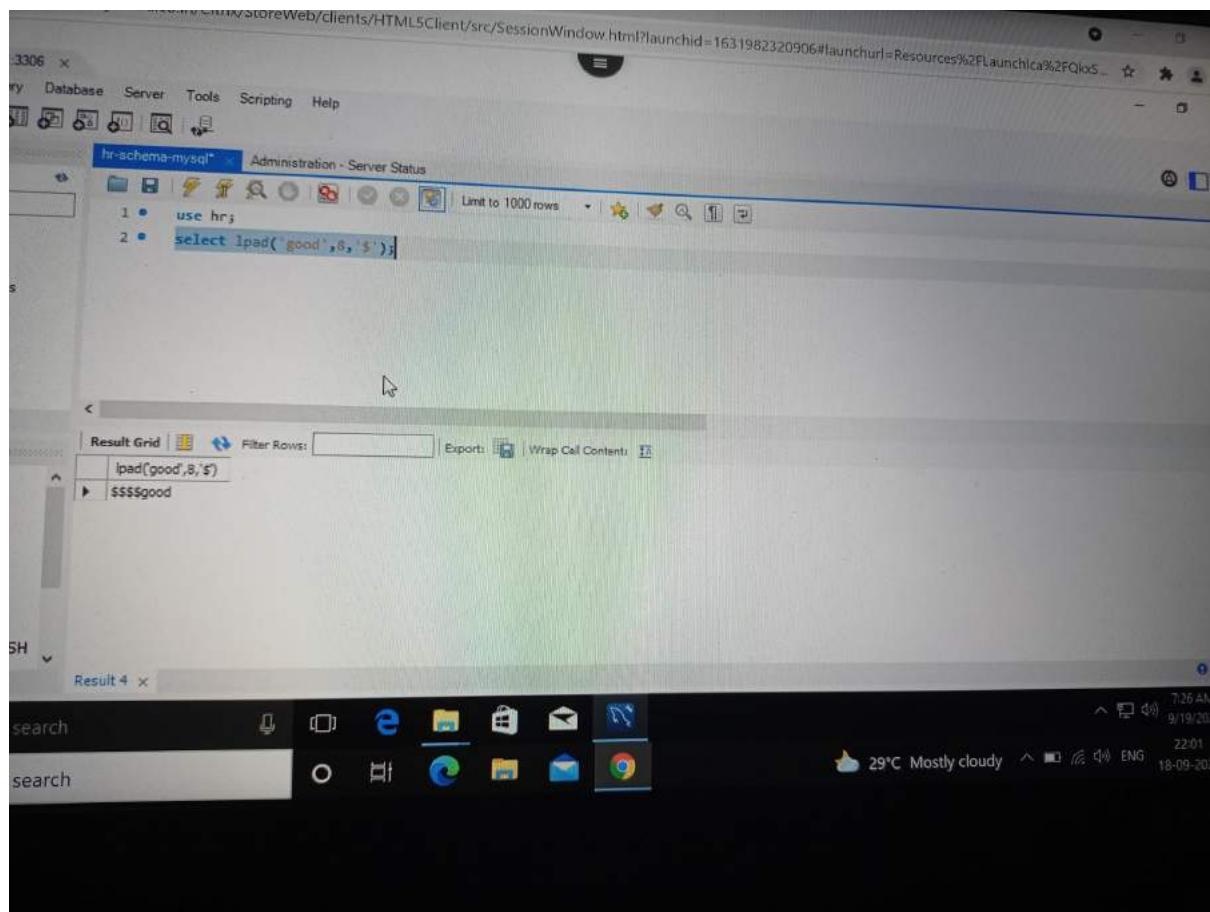
7:24 AM 9/19/2023 21:59 ENG 18-09-21

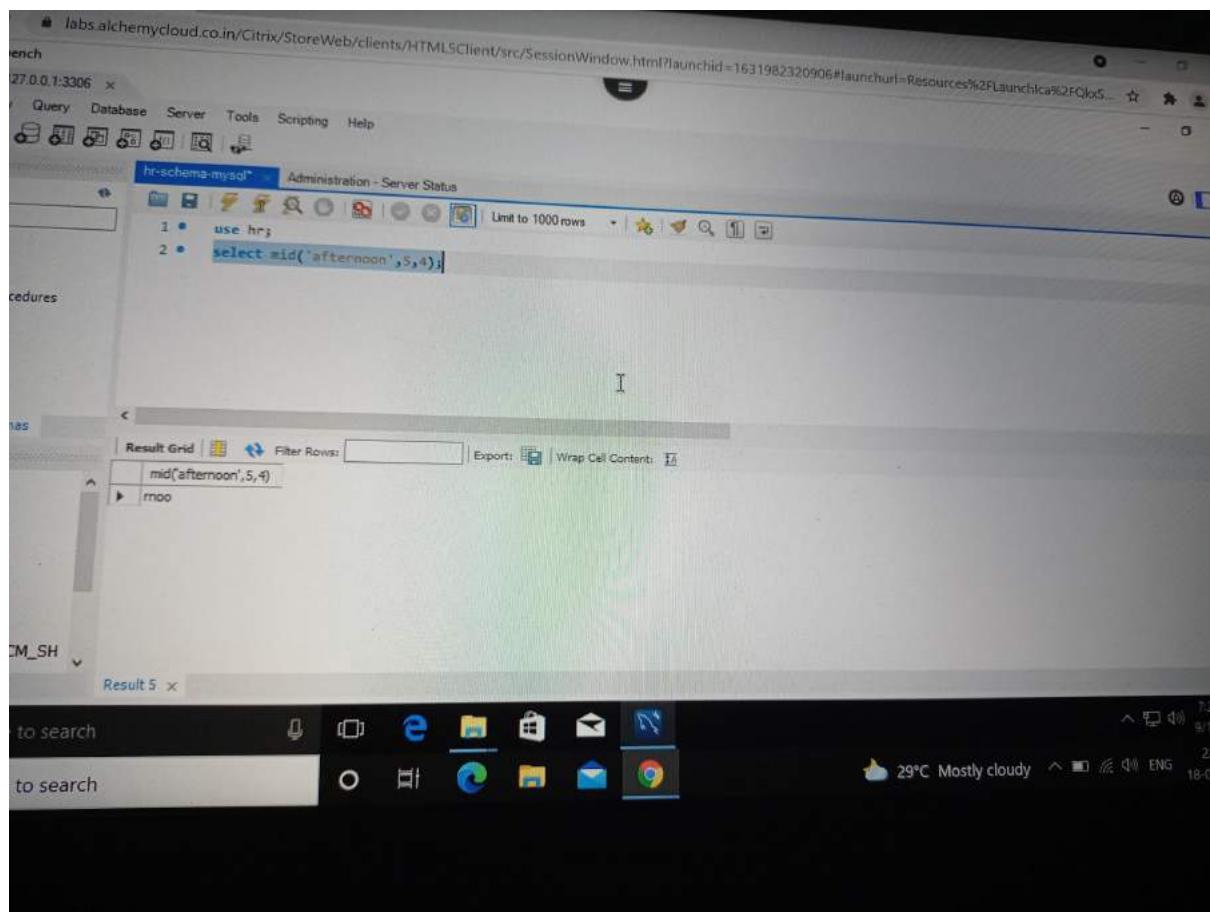
The screenshot shows a MySQL session in a web-based interface. The session window title is 'hr-schema-mysql* Administration - Server Status'. The SQL command entered is 'select locate('a','good afternoon');'. The result grid displays a single row with the value '6' under the column 'locate('a','good afternoon')'. Below the session window, the Windows taskbar is visible, showing various pinned icons like File Explorer, Edge, and Mail. The system tray shows the date and time as '7:24 AM 9/19/2023 21:59', the language as 'ENG', and the date as '18-09-21'.

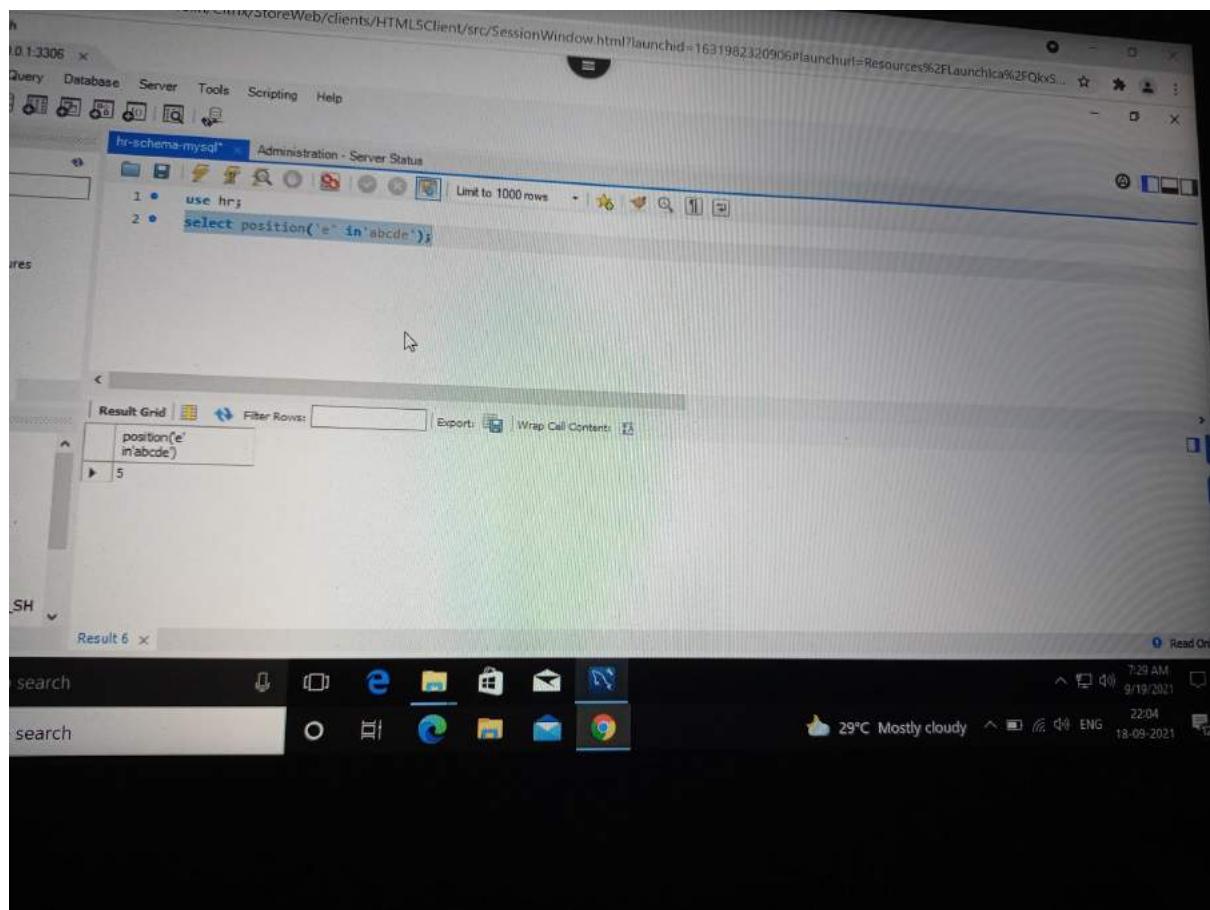
A screenshot of a MySQL client window titled "Administration - Server Status". The client is connected to the "hr-schema-mysql" database. In the SQL editor, the following query is run:

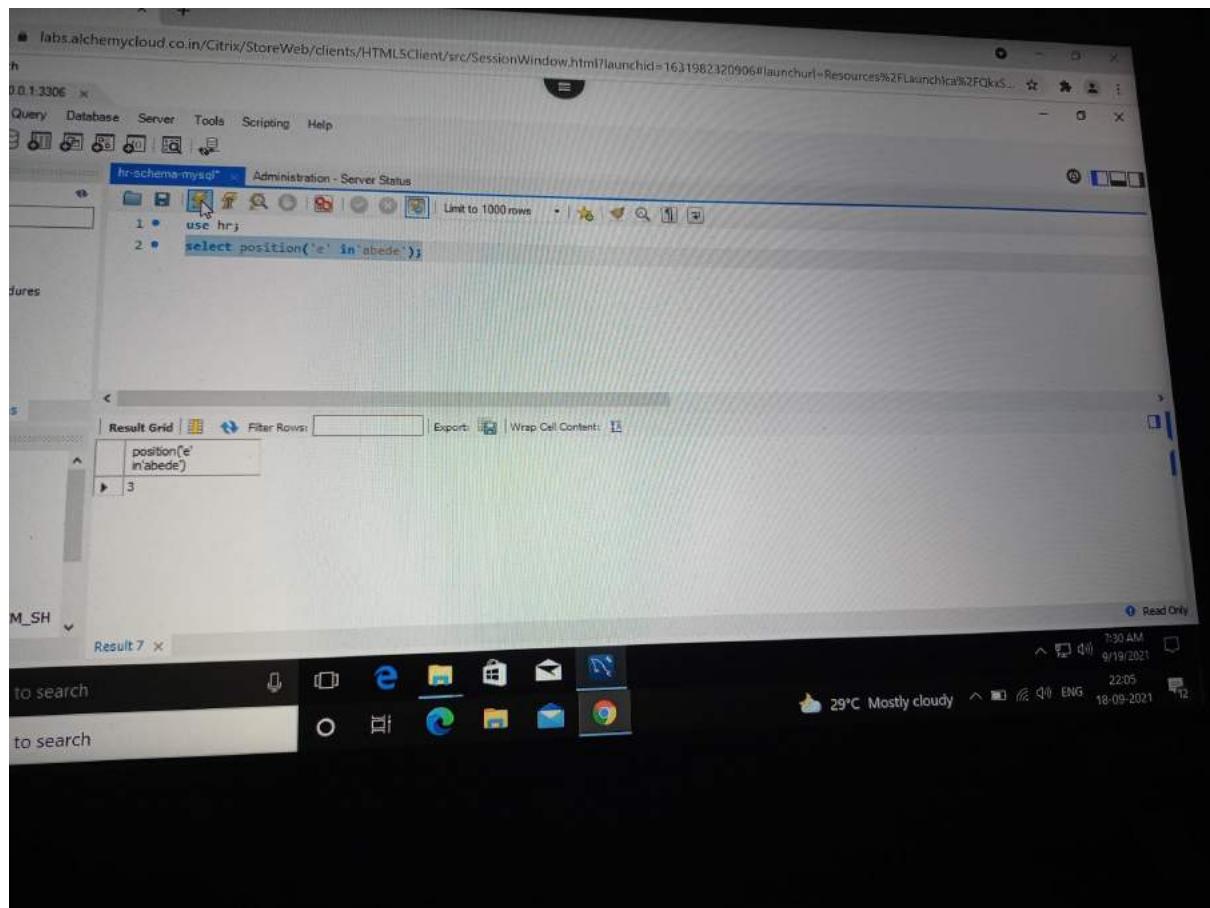
```
use hr;
select lower("ABCD");
```

The result grid shows one row with the value "abcd". The system tray at the bottom right of the screen displays the date and time as 7:25 AM, 9/19/2018, and the weather as 29°C Mostly cloudy.









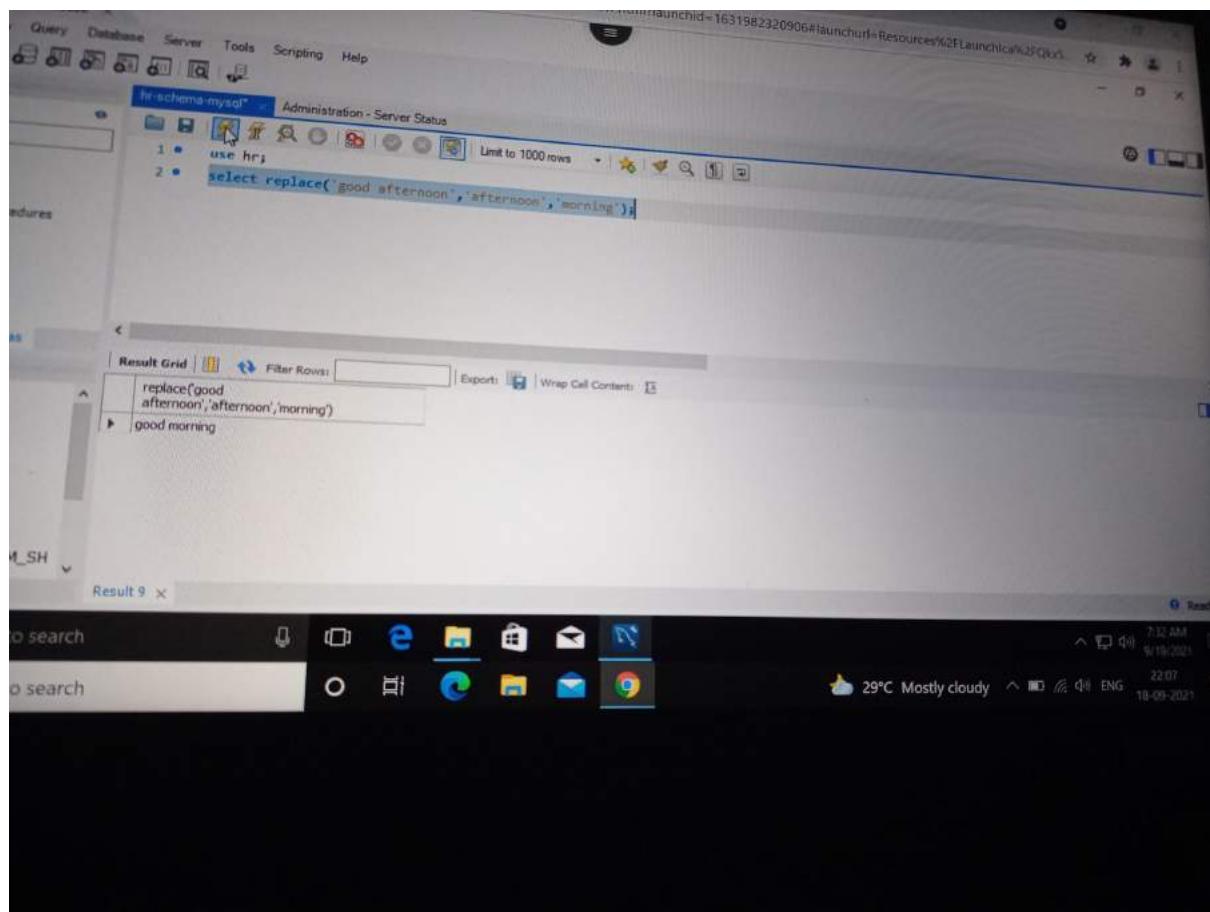
A screenshot of a computer monitor displaying MySQL Workbench. The interface shows a top menu bar with 'File', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. Below the menu is a toolbar with various icons. The main area is titled 'hr-schema-mysql' and 'Administration - Server Status'. A query editor window is open with the following SQL code:

```
use hr;
select repeat('happy',4);
```

The results are displayed in a 'Result Grid' table:

repeat('happy',4)
▶ happyhappyhappyhappy

At the bottom of the screen, a taskbar is visible with icons for search, file, browser, and other applications. The system tray shows the date and time as 9/19/2021 7:31 AM, and the weather as 29°C Mostly cloudy.



The screenshot shows a MySQL Workbench interface. In the top-left corner, there's a toolbar with icons for Query, Database, Server, Tools, Scripting, and Help. Below the toolbar, the title bar displays "Administration - Server Status". The main area contains two SQL statements:

```
1 • use hr;
2 • select replace('good afternoon', 'afternoon', 'morning');
```

Below the statements is a "Result Grid" table with one row of data:

	replace('good afternoon', 'afternoon', 'morning')
	good morning

At the bottom of the window, there's a status bar showing "Result 9" and a system tray with icons for search, file, and network.

The screenshot shows a MySQL Workbench interface running in a browser window. The title bar indicates the connection is to 'hr schema mysql' via port 3306. The main area displays a query editor with the following content:

```
1 • use hr
2 • select replace(last_name, 'Landry', 'JOE') from employees;
```

The results grid shows the output of the query:

replace(last_name, 'Landry', 'JOE')
2020_BB-Wong
2020_BB-Kochhar
2020_BB-De Haan
Hunold
Ernst
Austin
Pataballa
Lorentz
Greenberg

At the bottom of the screen, the taskbar shows several pinned icons: File, Home, Database, Server, Tools, Scripting, Help, and a magnifying glass icon. The system tray on the right shows the date and time as '29°C Mostly cloudy'.

306 x

Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hrj
2 • select replace(last_name, 'Landry', 'JOE') from employees where last_name='Landry';

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

replace(last_name, 'Landry', 'JOE')
JOE

Result 11 x

Search []

7:41 AM 9/19/2021 22:16 18-09-2021

29°C Mostly cloudy ENG

This screenshot shows a MySQL Workbench session titled 'hr-schema-mysql'. The query editor contains two statements: 'use hrj' and 'select replace(last_name, 'Landry', 'JOE') from employees where last_name='Landry';'. The result grid displays a single row with the value 'JOE'.

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQkoS...

0.0.1.3306 ×

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;

2 • select last_name,reverse(last_name)reversed_name from employees;

edures

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

last_name	reversed_name
2020_B84Gng	gnik488_0202
2020_B84Kochhar	rahhcok488_0202
2020_B84De Haan	naah ed488_0202
Hunold	dlonuH
Ernst	tsnre
Austin	nitsuA
Pataballa	allabataP
Lorentz	ztrierL
Greenberg	grebneerG

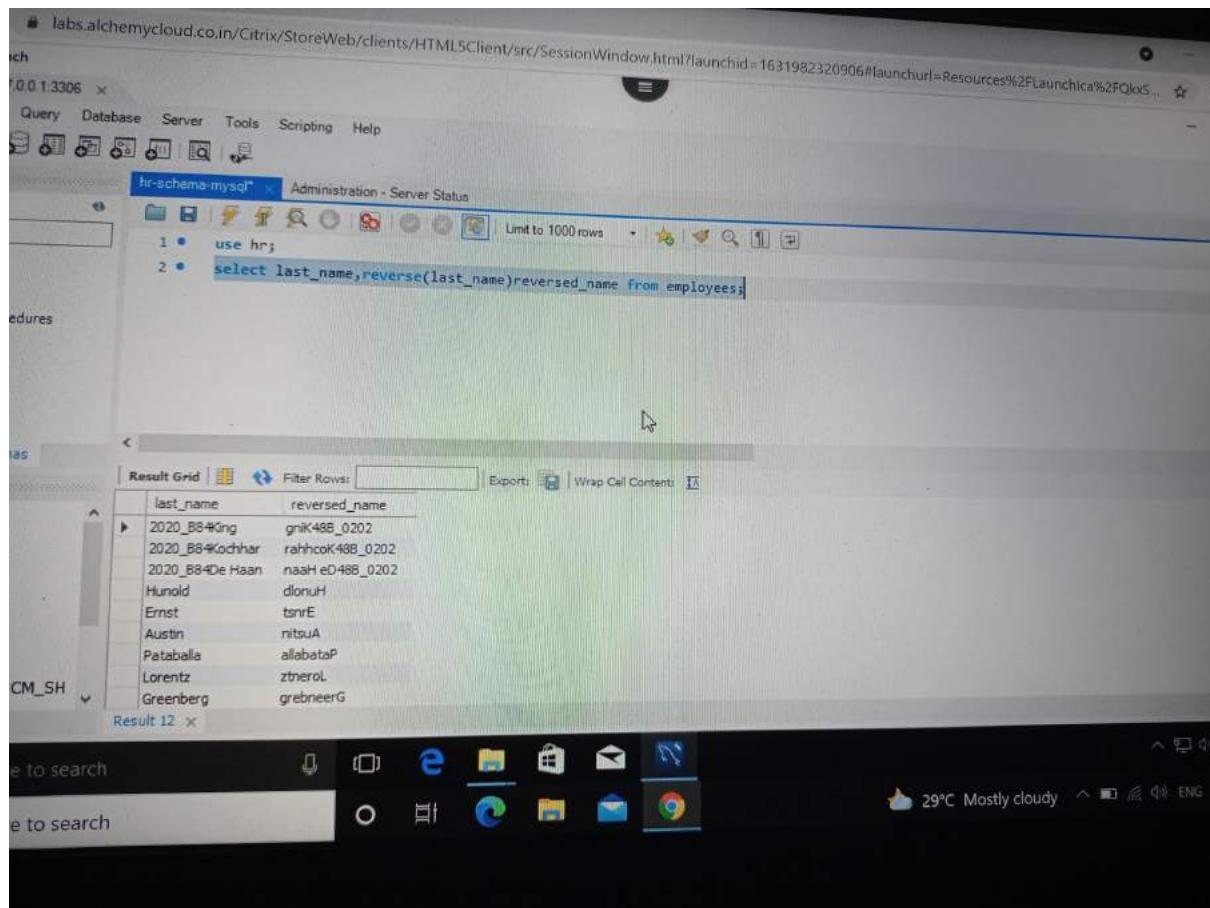
Result 12 ×

to search

to search

29°C Mostly cloudy

ENG

A screenshot of a MySQL query interface. The top bar shows the URL as 'labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQkoS...'. Below it is a toolbar with icons for Query, Database, Server, Tools, Scripting, and Help. A dropdown menu shows 'hr-schema-mysql*' and 'Administration - Server Status'. The main area contains two SQL statements: 'use hr;' and 'select last_name,reverse(last_name)reversed_name from employees;'. The results are displayed in a grid titled 'Result Grid' with columns 'last_name' and 'reversed_name'. The results show various names like '2020_B84Gng' and 'gnik488_0202'. The bottom of the screen shows a taskbar with icons for File, Home, Task View, Start, Edge, File Explorer, Mail, and Google Chrome. The system tray shows the date and time as '29°C Mostly cloudy' and language as 'ENG'.

11.3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • use hr;
2 • select last_name, left(last_name,1)Letter From employees;
```

ures

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

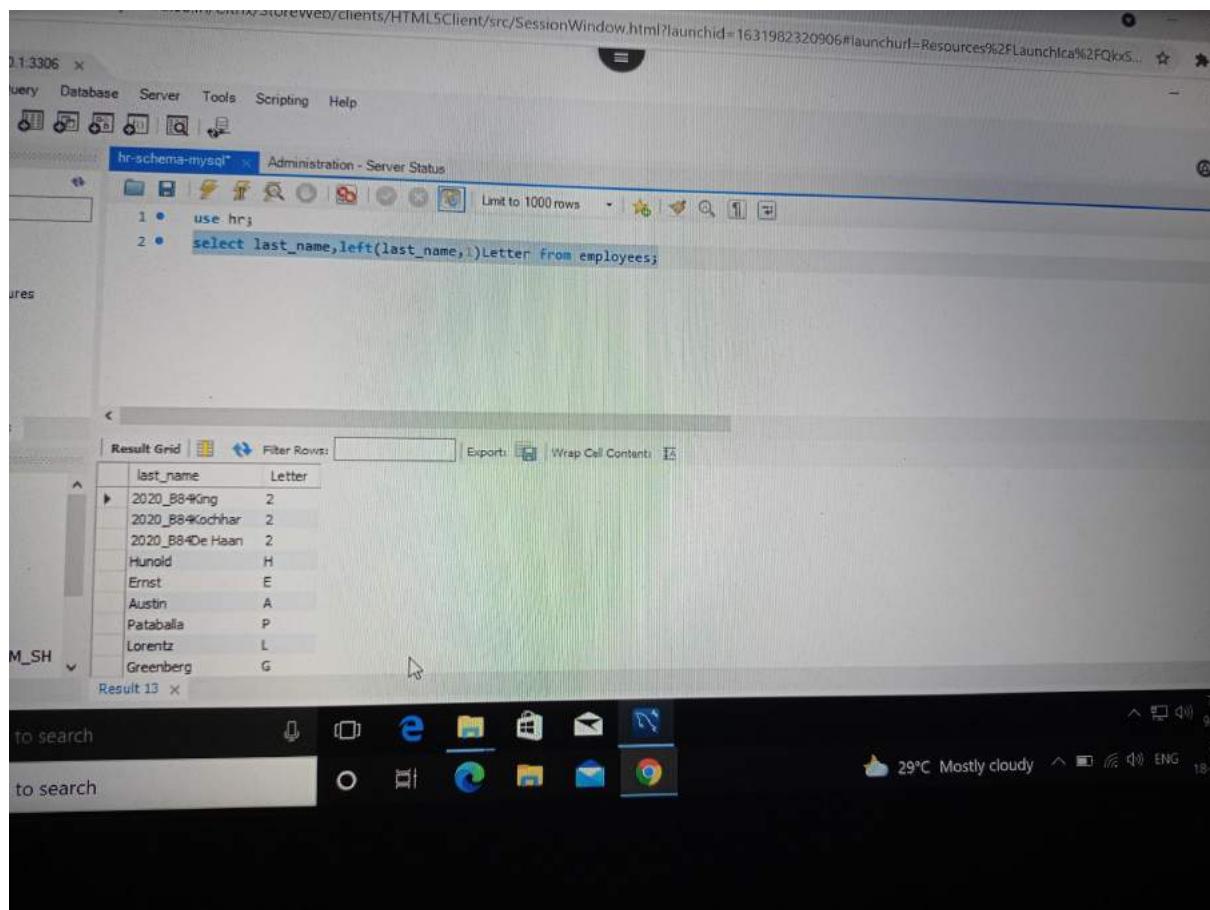
last_name	Letter
2020_B8King	K
2020_B8Kochhar	K
2020_B8De Haan	D
Hunold	H
Ernst	E
Austin	A
Pataballa	P
Lorentz	L
Greenberg	G

Result 13 x

to search

to search

29°C Mostly cloudy ENG 18



The screenshot shows a MySQL Workbench interface. At the top, there's a toolbar with various icons for database management. Below the toolbar, the connection information is displayed as "hr-schema-mysql* - Administration - Server Status". The main area contains a SQL editor window with the following content:

```
1 • use hr;
2 • select last_name,max(salary),min(salary),strcmp(max(salary),min(salary)) from employees;
```

Below the SQL editor is a "Result Grid" section. It has a header row with columns: last_name, max(salary), min(salary), and strcmp(max(salary),min(salary)). The data row shows:

last_name	max(salary)	min(salary)	strcmp(max(salary),min(salary))
2020_BBaKing	24000.00	2100.00	1

At the bottom of the screen, the Windows taskbar is visible, showing various pinned icons like File Explorer, Edge, and Mail. The system tray displays the date (9/19/2021), time (7:45 AM), weather (29°C Mostly cloudy), battery status (22:20), and language (ENG). The status bar at the bottom right shows the date (18-09-2021) and a file icon.

10.1.3306 X

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

```
1 • use hr;
2 • select last_name,substr(last_name,1,4)from employees where department_id=30;
```

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

last_name	substr(last_name,1,4)
Weiss	Weis
Fripp	Frip
Kaufling	Kauf
Vollman	Voll
Mourgos	Mour
Nayer	Naye
Middleman	Midd
Landry	Land
Markle	Mark

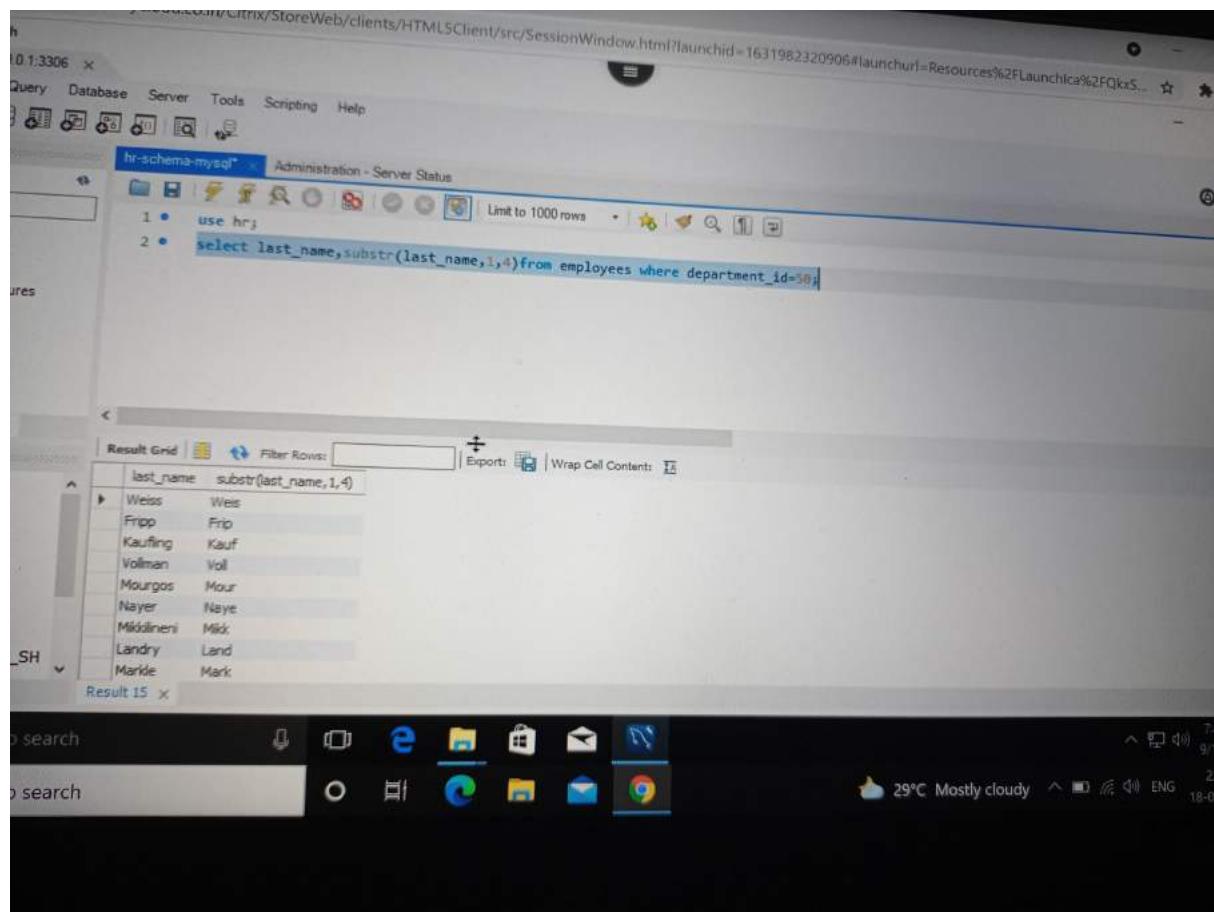
Result 15 X

Search []

Search []

29°C Mostly cloudy

ENG 18:41



http://mycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchuri=Resources%2FLaunch\cal%2FQxs...

3306 ×

Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

1 • use hr;
2 • select ltrim(' vicky ')

Result Grid | Filter Rows: Export: Wrap Cell Content:

ltrim(' vicky ')
vicky

Result 16 ×

Search

7:48 9/19/22 22:22 29°C Mostly cloudy ENG 18-09-

The screenshot shows a MySQL Workbench session titled 'hr-schema-mysql'. In the SQL editor, two queries are run: 'use hr;' and 'select ltrim(' vicky ')'. The result grid displays a single row with the value 'vicky'.

Harris

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQlx5...

orkbench

id@127.0.0.1:3306

View Query Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

Procedures

ns

hemas

Result Grid | Filter Rows: Export: Wrap Cell Content:

1 • use hr;
2 • select rtrim(' vicky ')

Result 17

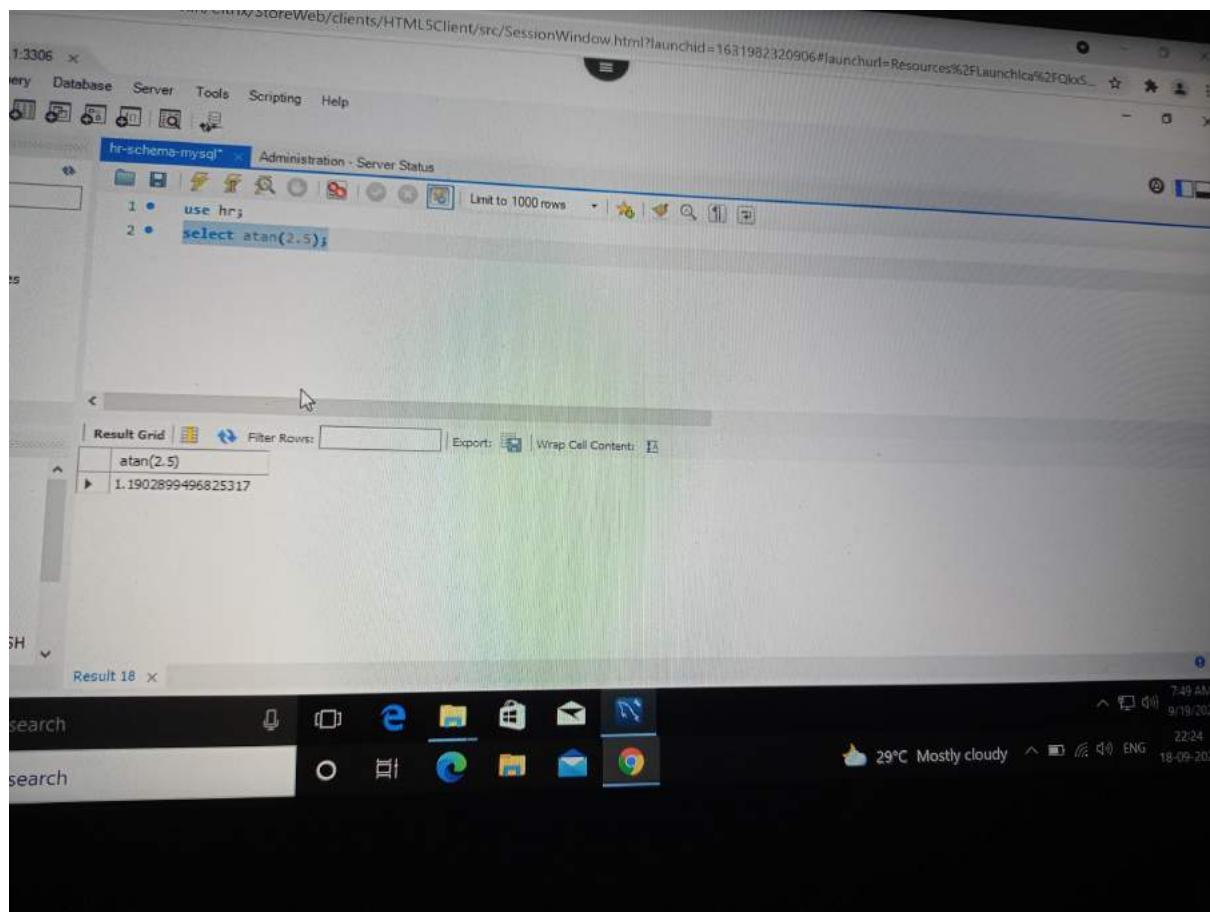
here to search

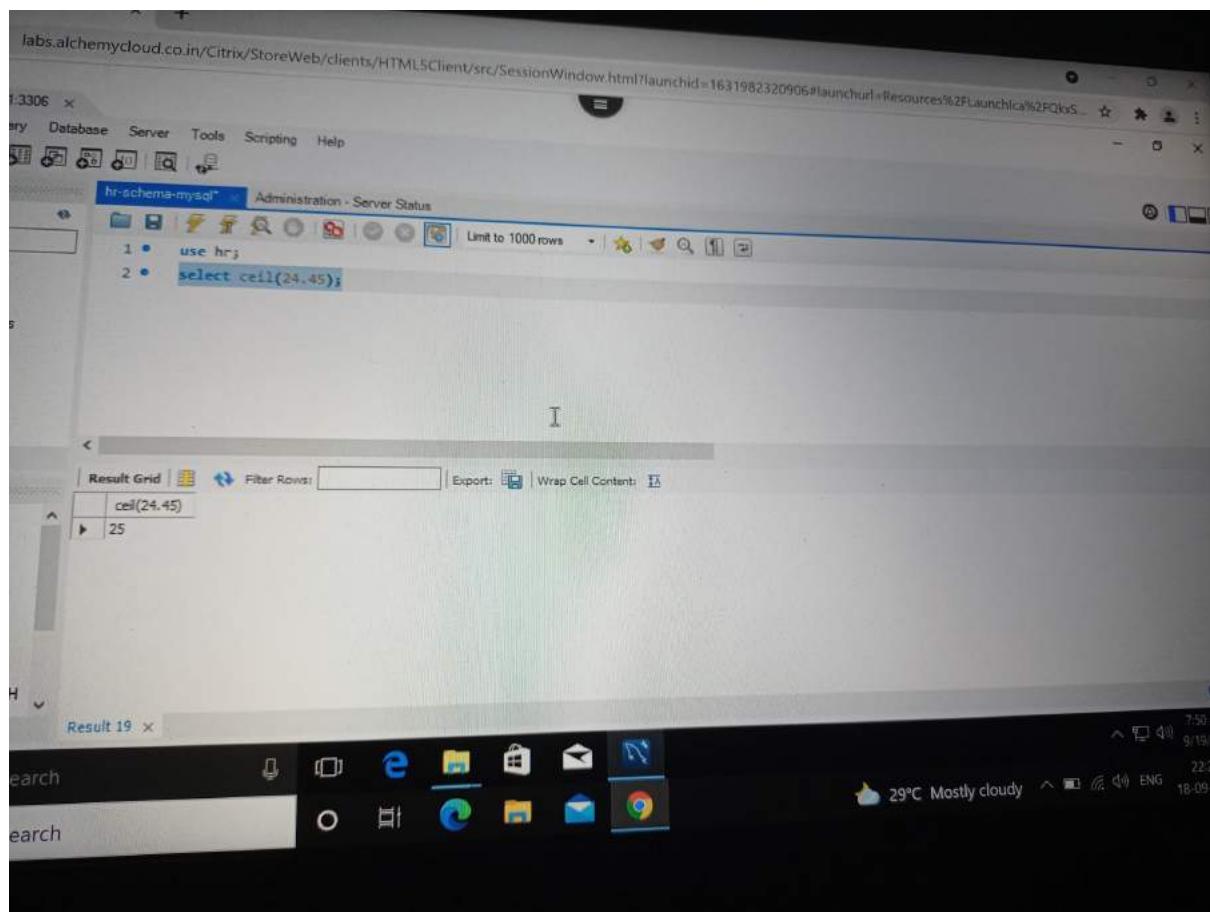
here to search

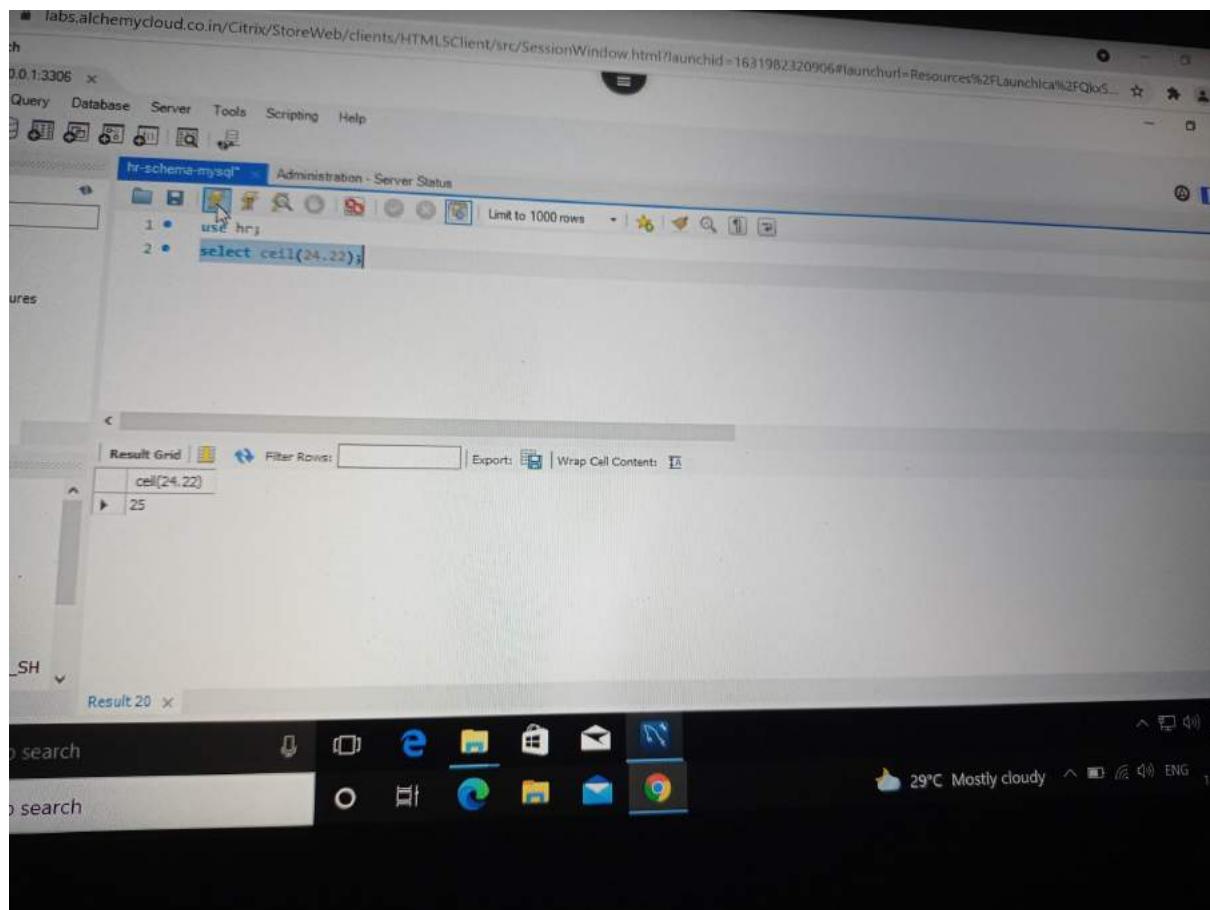
29°C Mostly cloudy

The screenshot shows a MySQL Workbench interface. In the query editor, two statements are run: 'use hr;' and 'select rtrim(' vicky ')'. The result grid displays a single row with the value 'vicky'.

Result Grid
rtrim(' vicky ')
vicky







A screenshot of a MySQL client interface. The title bar shows the URL: labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906&launchurl=Resources%2FLauncher%2FQios... The main window displays a SQL query and its results.

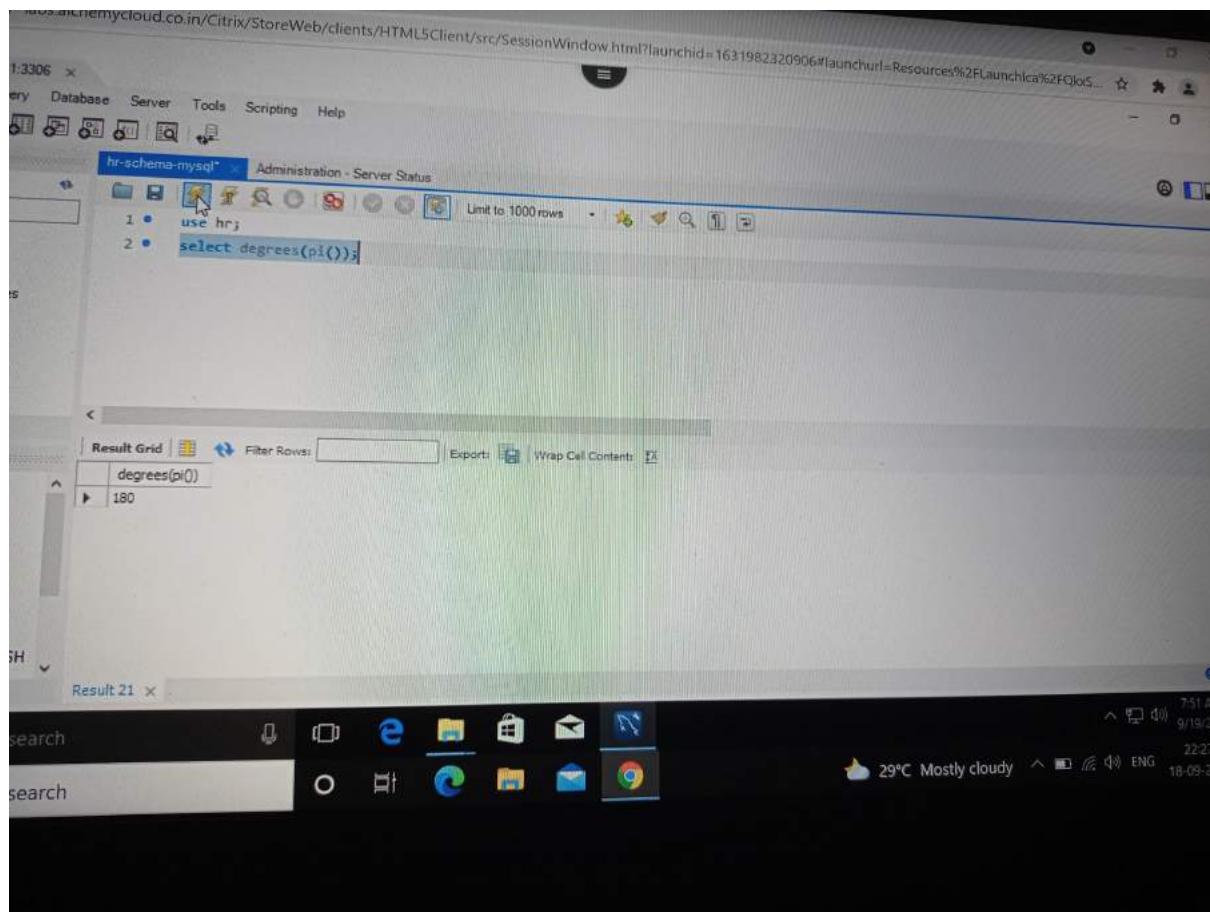
The SQL query is:

```
use hr;
select tan(30);
```

The result grid shows the output of the query:

	tan(30)
>	-6.405331196646276

The system tray at the bottom right shows the date (7.5), battery level (9/19), weather (29°C Mostly cloudy), and system status (ENG 18:09).



1:3306 ×

Query Database Server Tools Scripting Help

hi-schema-mysql* Administration - Server Status

1 • use hr;

2 • select 10 div 2

Result Grid Filter Rows: Export: Wrap Cell Content:

10	div 2
5	

Result 22 ×

search

search

7:30 9/1 22 29°C Mostly cloudy ENG 18:00

A screenshot of a MySQL client interface. The top window is titled 'hi-schema-mysql*' and shows a query editor with two lines of SQL: 'use hr;' and 'select 10 div 2'. Below the editor is a 'Result Grid' section with a table containing two rows. The first row has two columns: '10' and 'div 2'. The second row has two columns: '5' and an empty space. There are buttons for 'Filter Rows', 'Exports', and 'Wrap Cell Content'. The bottom window is titled 'Result 22' and shows a taskbar with various icons like file explorer, browser, and email. The system tray shows the date (9/1), time (7:30), weather (29°C, mostly cloudy), language (ENG), and battery status (18:00).

labs.alchemycld.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQjox5...

0.1.3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;
2 • select * from div_2;

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Contents: []

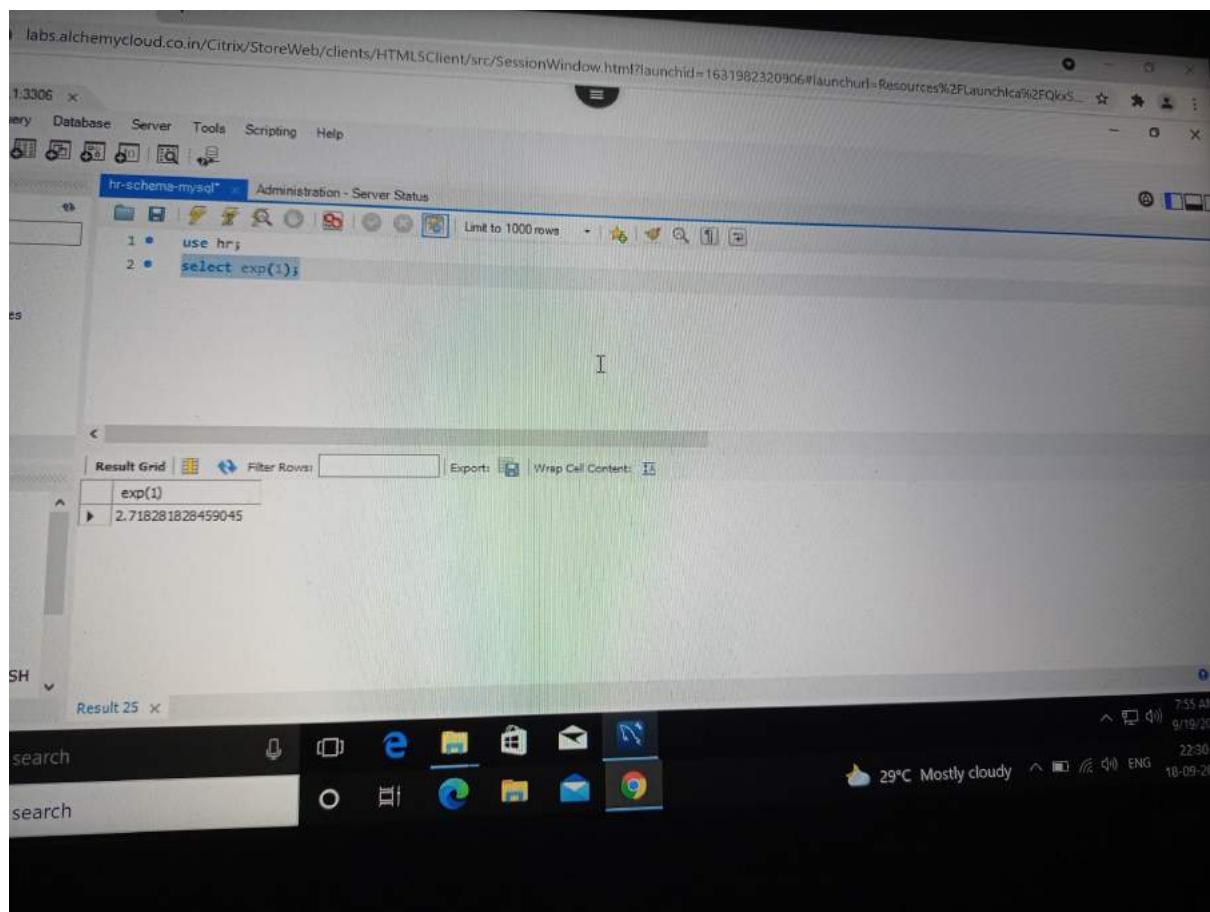
9	div
2	
4	

Result 24 x

search

29°C Mostly cloudy ENG 11

The screenshot shows a MySQL query window titled 'hr-schema-mysql* Administration - Server Status'. It contains two SQL statements: 'use hr;' and 'select * from div_2;'. The result grid displays three rows of data: (9, div), (2,), and (4,). The operating system taskbar at the bottom shows various icons and a weather widget indicating 29°C and mostly cloudy conditions.



13306 x

Query Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

1 • use hr;

2 • select concat(last_name," works in deptno ",department_id," with the ",job_id)from employees;

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

concat(last_name," works in deptno ",department_id," with the ",job_id)

▶ 2020_B84King works in deptno 90 with the AD_PRES
2020_B84Kochhar works in deptno 90 with the ...
2020_B84Haan works in deptno 90 with the ...
Hunold works in deptno 60 with the IT_PROG
Ernst works in deptno 60 with the IT_PROG
Austin works in deptno 60 with the IT_PROG
Pataballa works in deptno 60 with the IT_PROG
Lorentz works in deptno 60 with the IT_PROG

Result 26 x

Search

Search

7:56 AM 9/19/2020 22:32 29°C Mostly cloudy ENG 18-09-2020

This screenshot shows a MySQL Workbench session window. The title bar indicates the session ID is 13306. The menu bar includes Query, Database, Server, Tools, Scripting, and Help. The main area shows a query editor with the following SQL code:

```
use hr;
select concat(last_name," works in deptno ",department_id," with the ",job_id)from employees;
```

The results are displayed in a grid format under the 'Result Grid' tab. The results show employees and their department and job details:

concat(last_name," works in deptno ",department_id," with the ",job_id)
2020_B84King works in deptno 90 with the AD_PRES
2020_B84Kochhar works in deptno 90 with the ...
2020_B84Haan works in deptno 90 with the ...
Hunold works in deptno 60 with the IT_PROG
Ernst works in deptno 60 with the IT_PROG
Austin works in deptno 60 with the IT_PROG
Pataballa works in deptno 60 with the IT_PROG
Lorentz works in deptno 60 with the IT_PROG

The status bar at the bottom right shows the current time (7:56 AM), date (9/19/2020), weather (29°C Mostly cloudy), and system information (ENG 18-09-2020).

labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunch/ca%2FQloS...

0.0.1.3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;

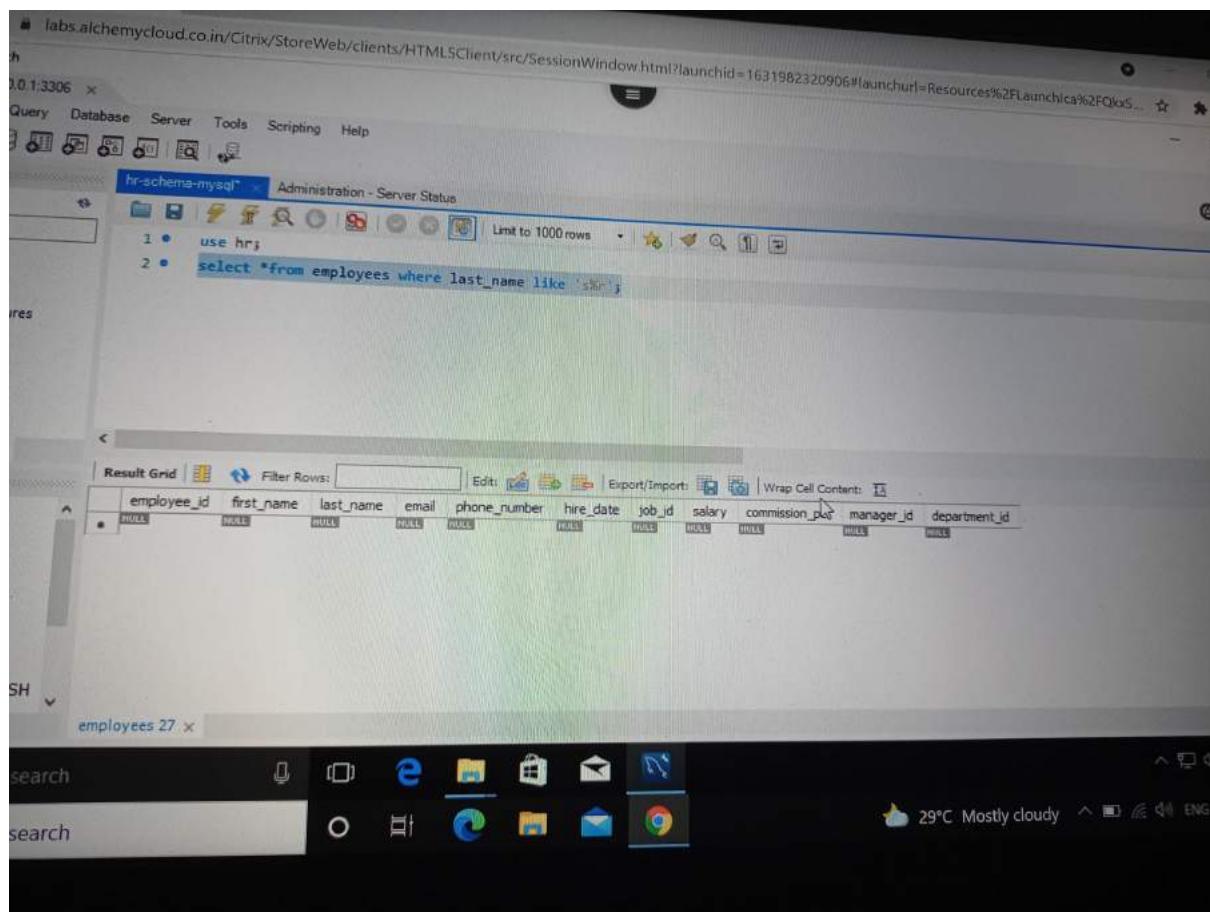
2 • select * from employees where last_name like '%sin';

Result Grid | Filter Rows: [] Edit: [] Export/Import: [] Wrap Cell Content: []

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
HULL	NAUL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

employees 27 x

search search 29°C Mostly cloudy ENG



labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTMLSCClient/src/SessionWindow.html?launchid=1631982320906#launchuri=Resources%2FLaunchica%2FQkxS... x

File 3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;

2 • select last_name from employees where last_name like '%_r%';

Result Grid Filter Rows: Exports Wrap Cell Content:

last_name
Scierra
Sarchand

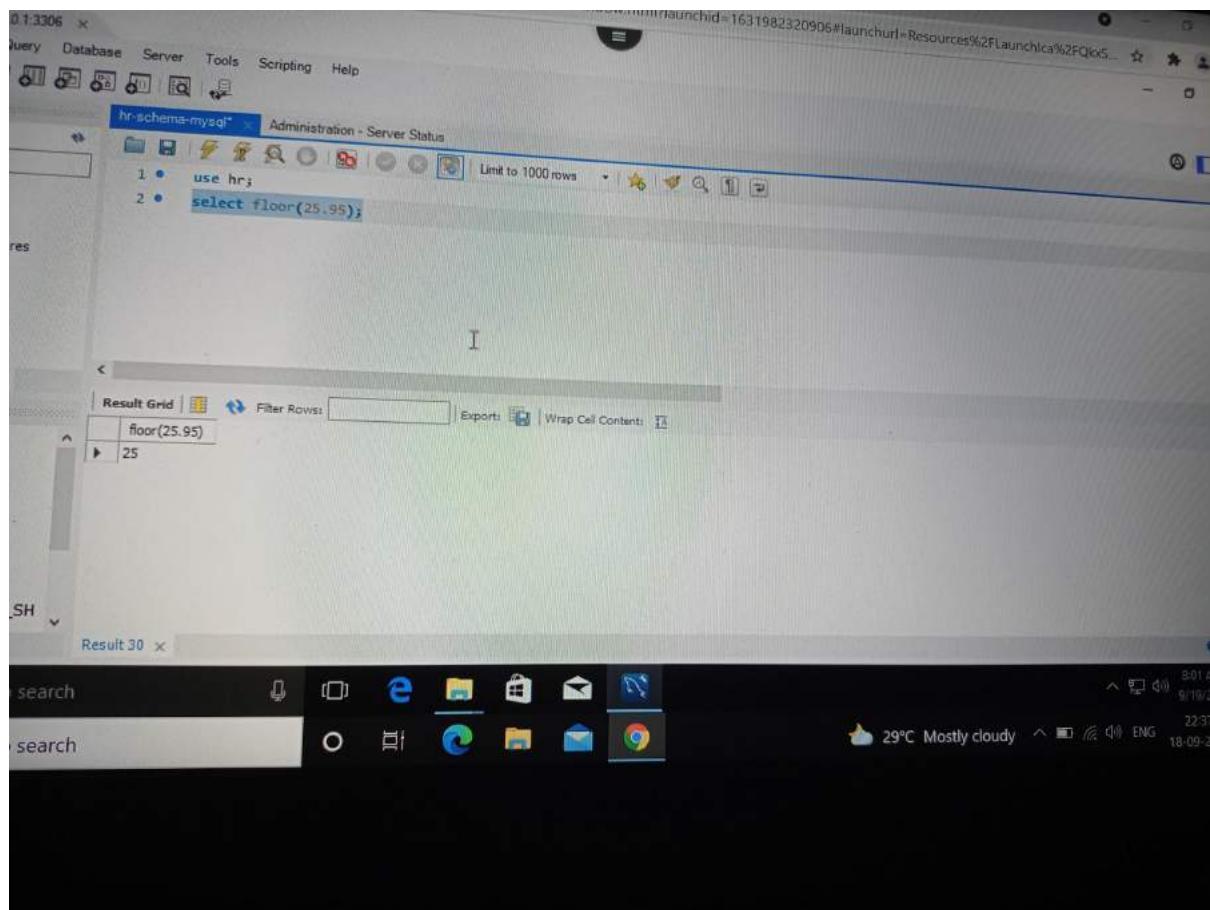
employees 28 x

search

search

29°C Mostly cloudy ENG 18

A screenshot of a MySQL database interface. The top window is titled 'hr-schema-mysql*' and shows a query editor with two lines of SQL code: 'use hr;' and 'select last_name from employees where last_name like '%_r%';'. Below the query editor is a 'Result Grid' section with a table containing two rows: 'last_name' with values 'Scierra' and 'Sarchand'. The bottom window is titled 'employees 28 x' and shows a taskbar with various icons, including a search bar, a weather widget (29°C Mostly cloudy), and system status indicators (ENG 18). The background of the desktop is a green gradient.



A screenshot of a MySQL client interface. The top bar shows the URL: `labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQloS...`. The menu bar includes Query, Database, Server, Tools, Scripting, and Help. A toolbar with various icons is visible. The main area shows a query window with the following content:

```
0.1:3306 ×
Query Database Server Tools Scripting Help
hr-schema-mysql* Administration - Server Status
1 • use hr;
2 • select greatest(1,2,3,4,5);
Limit to 1000 rows
```

The Result Grid shows a single row of data:

	greatest(1,2,3,4,5)
▶	5

Below the result grid, the status bar shows "Result 31" and the system tray displays the date and time as 18-09-2023 22:38.

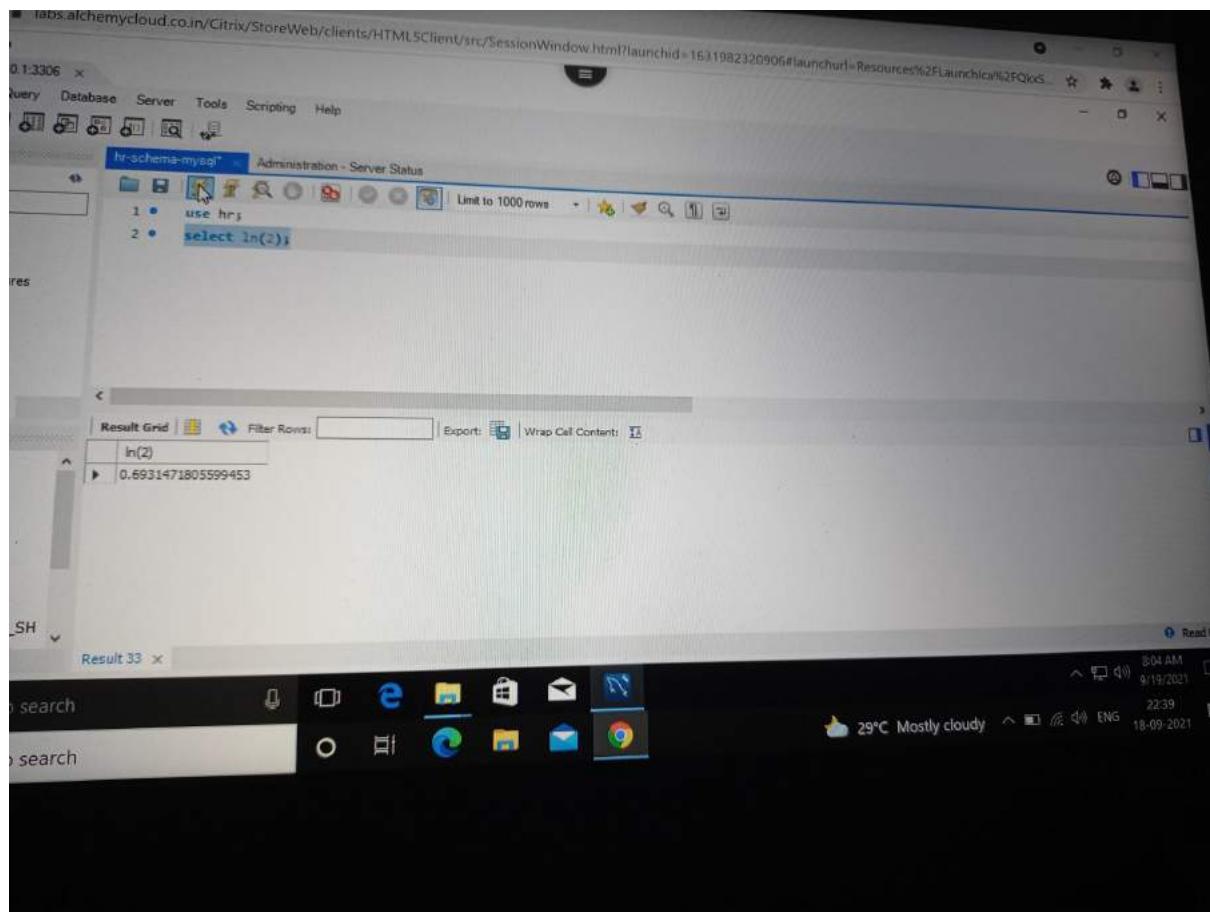
The screenshot shows a MySQL Workbench interface with two tabs open. The top tab, titled 'hr-schema-mysql*', contains the following SQL code:

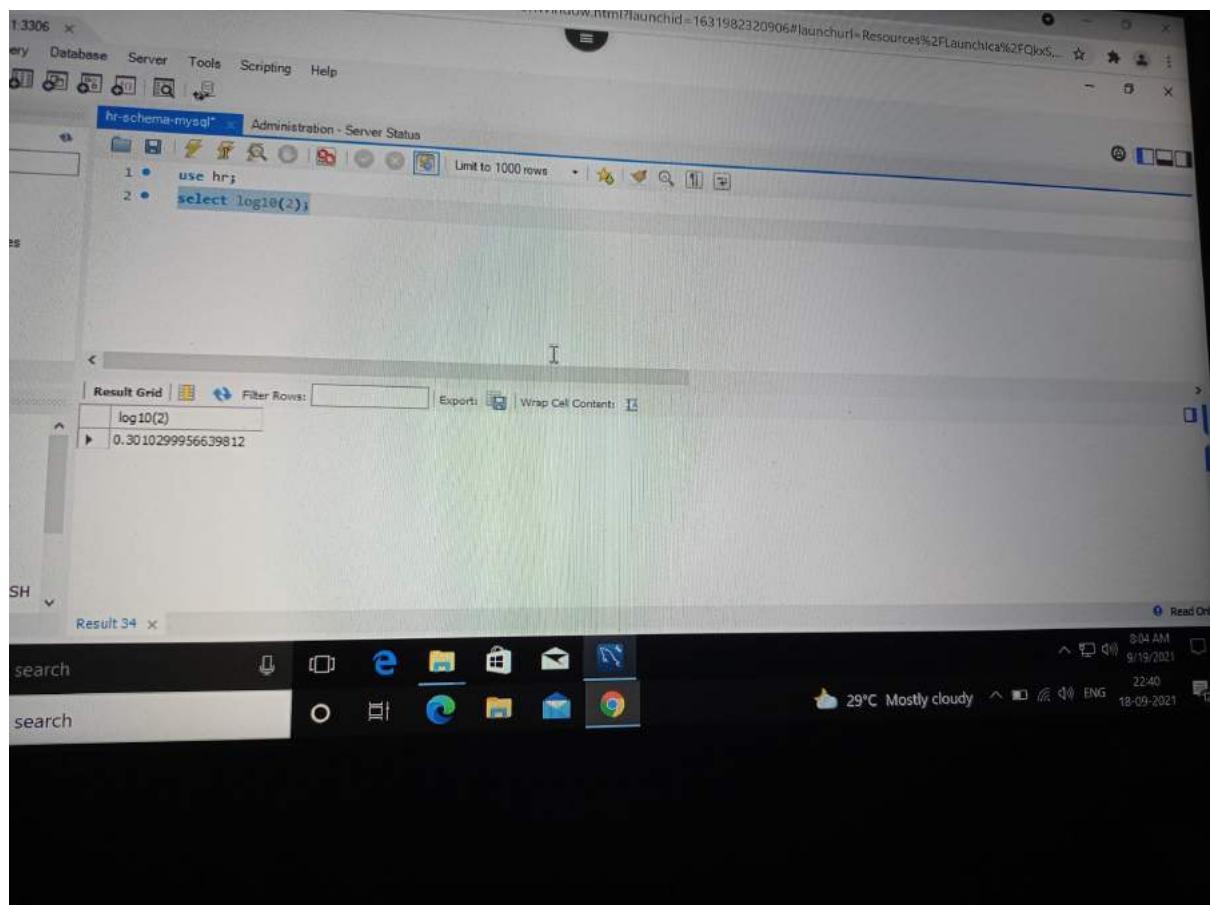
```
1 • use hr;
2 • select least(1,2,3,4,5);
```

The bottom tab, titled 'Result 32', displays the output of the query:

least(1,2,3,4,5)
1

The system tray at the bottom right of the screen shows the date and time as 9/19/2021 8:03 AM, and the weather as 29°C Mostly cloudy.





The screenshot shows a MySQL Workbench interface with a query editor and a results grid.

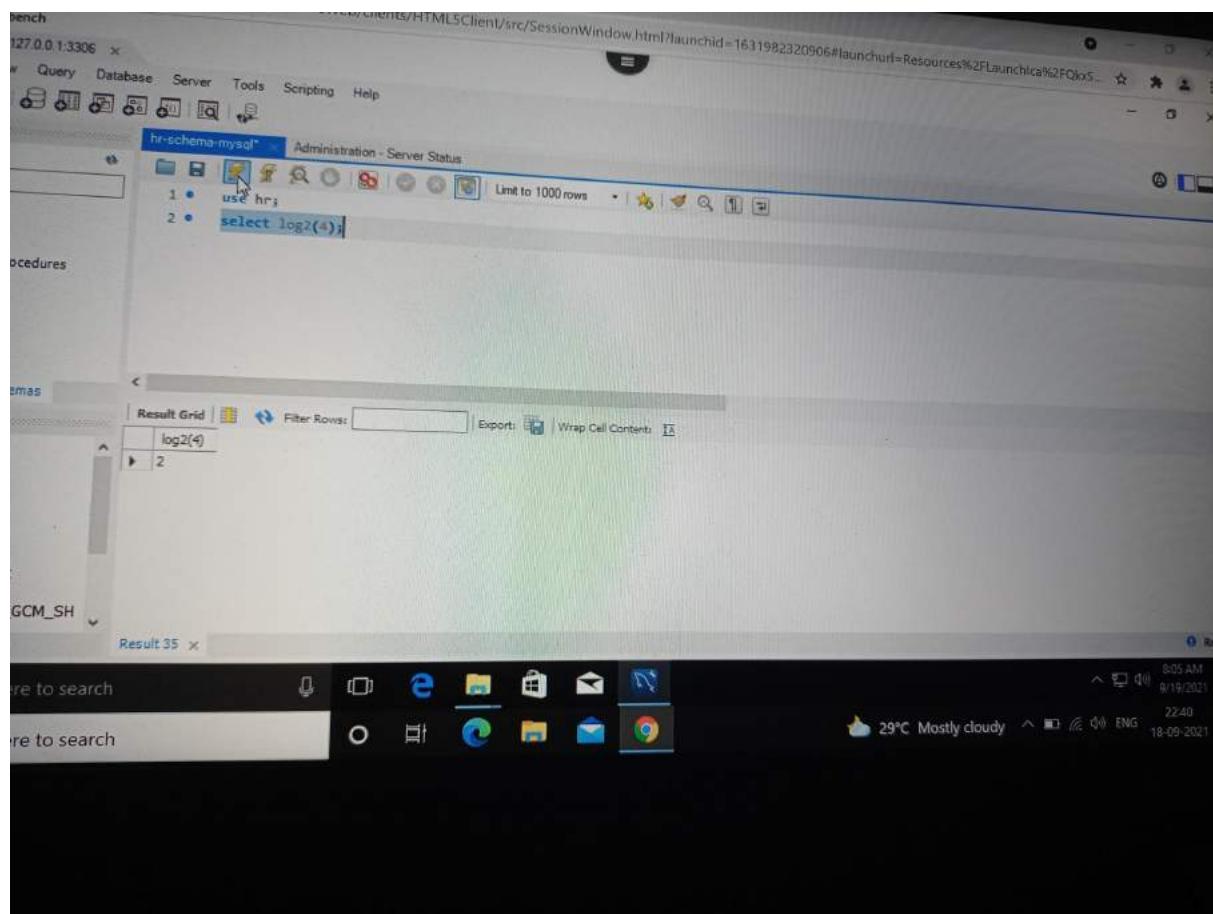
Query Editor:

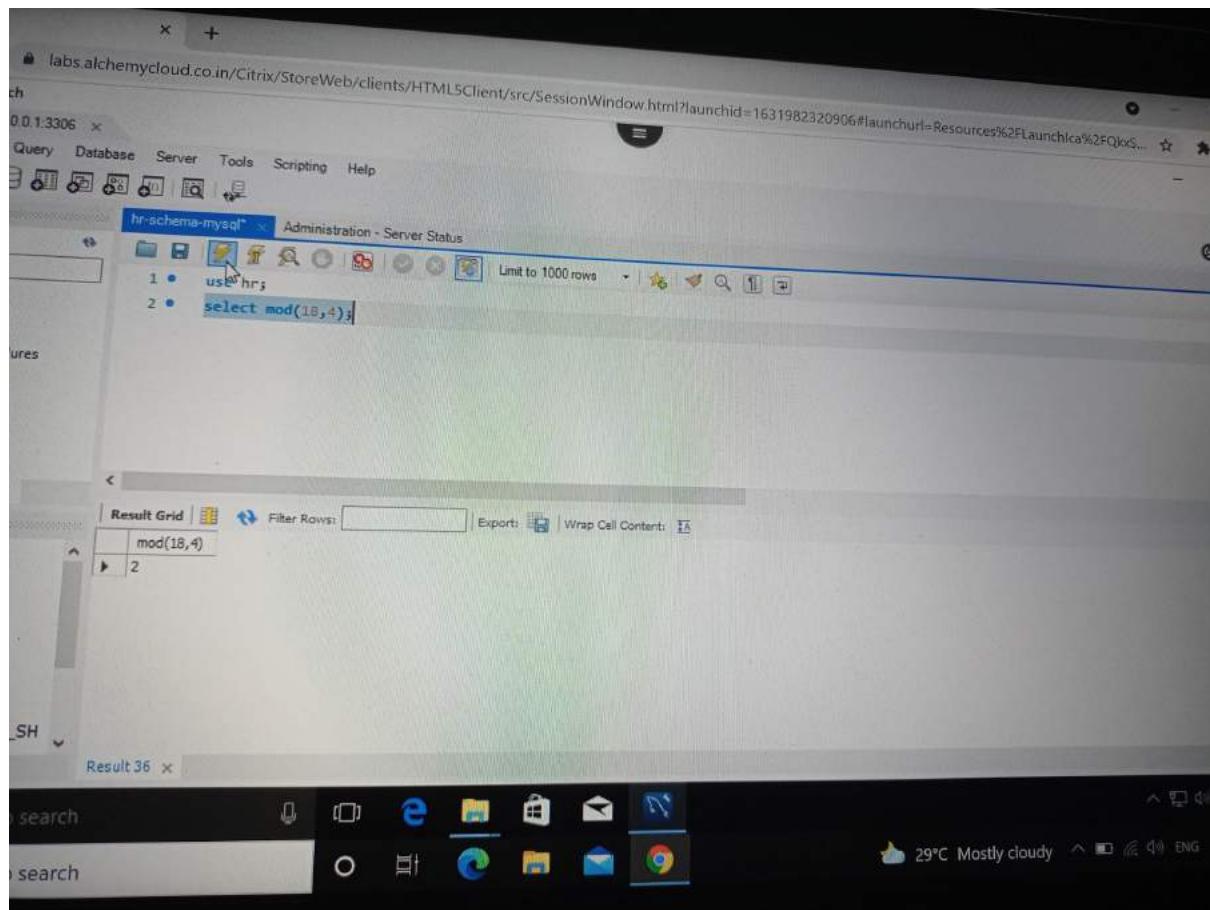
```
use hr;
select log10(2);
```

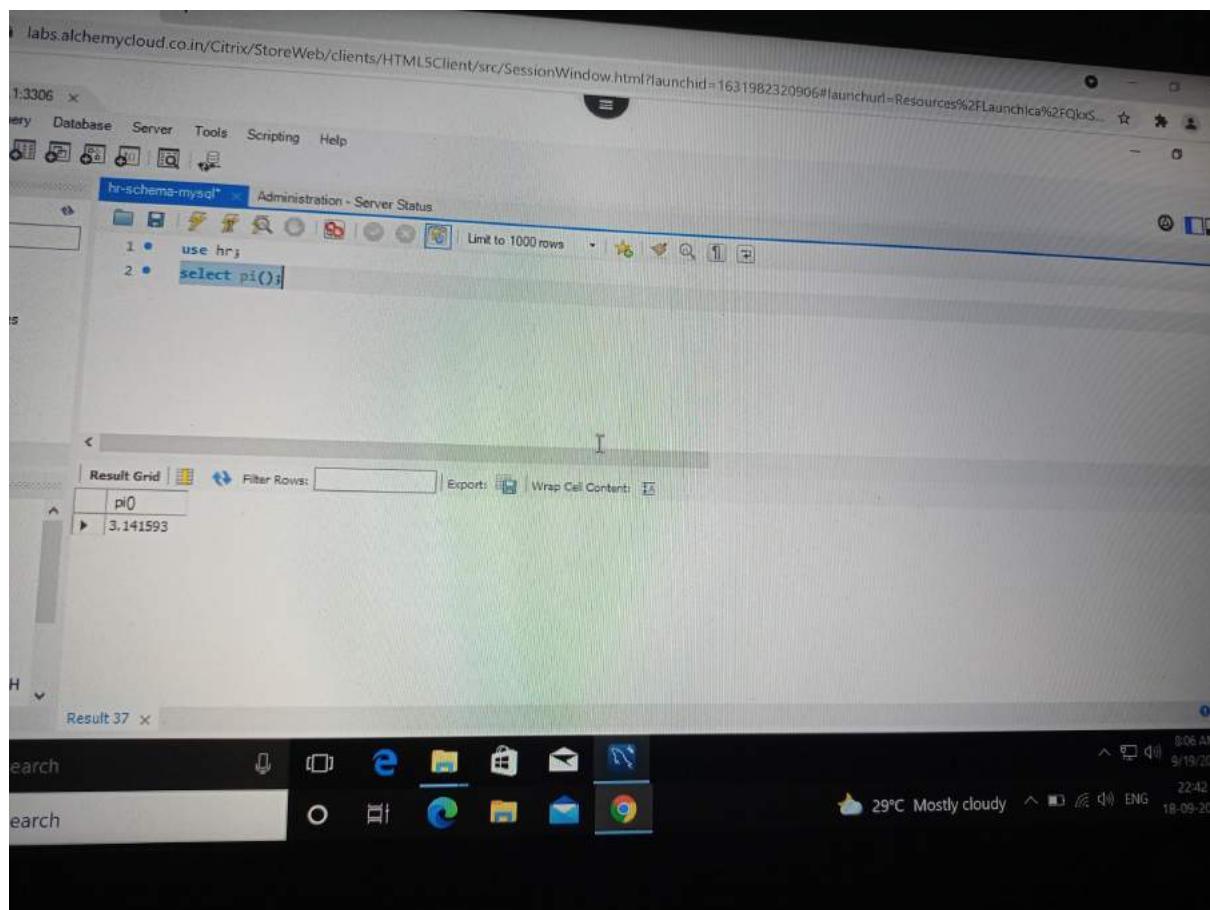
Results Grid:

log10(2)
0.3010299956639812

The results grid displays the output of the query `select log10(2);`, which returns the value `0.3010299956639812`.







The screenshot shows a MySQL query window with the following content:

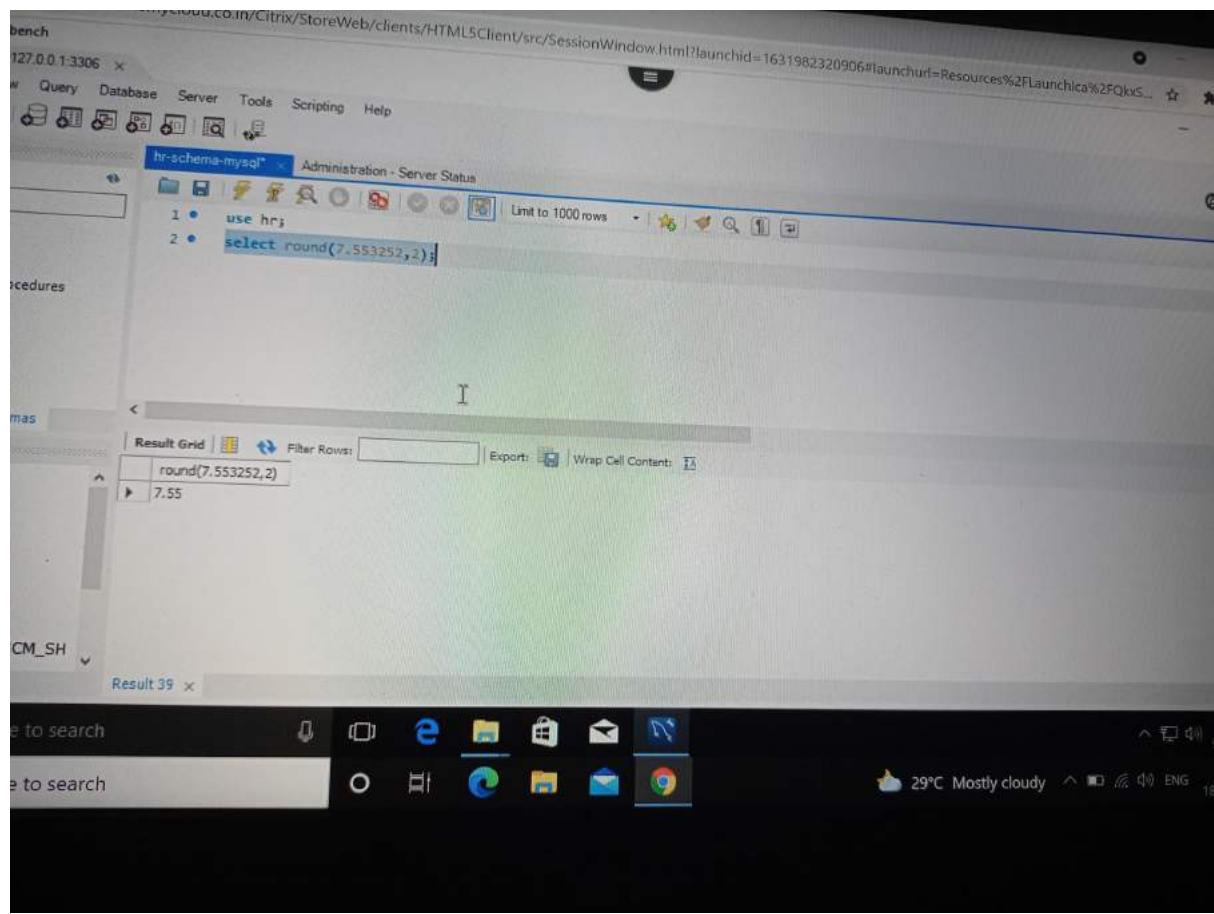
```
use hr;
select pow(4,2);
```

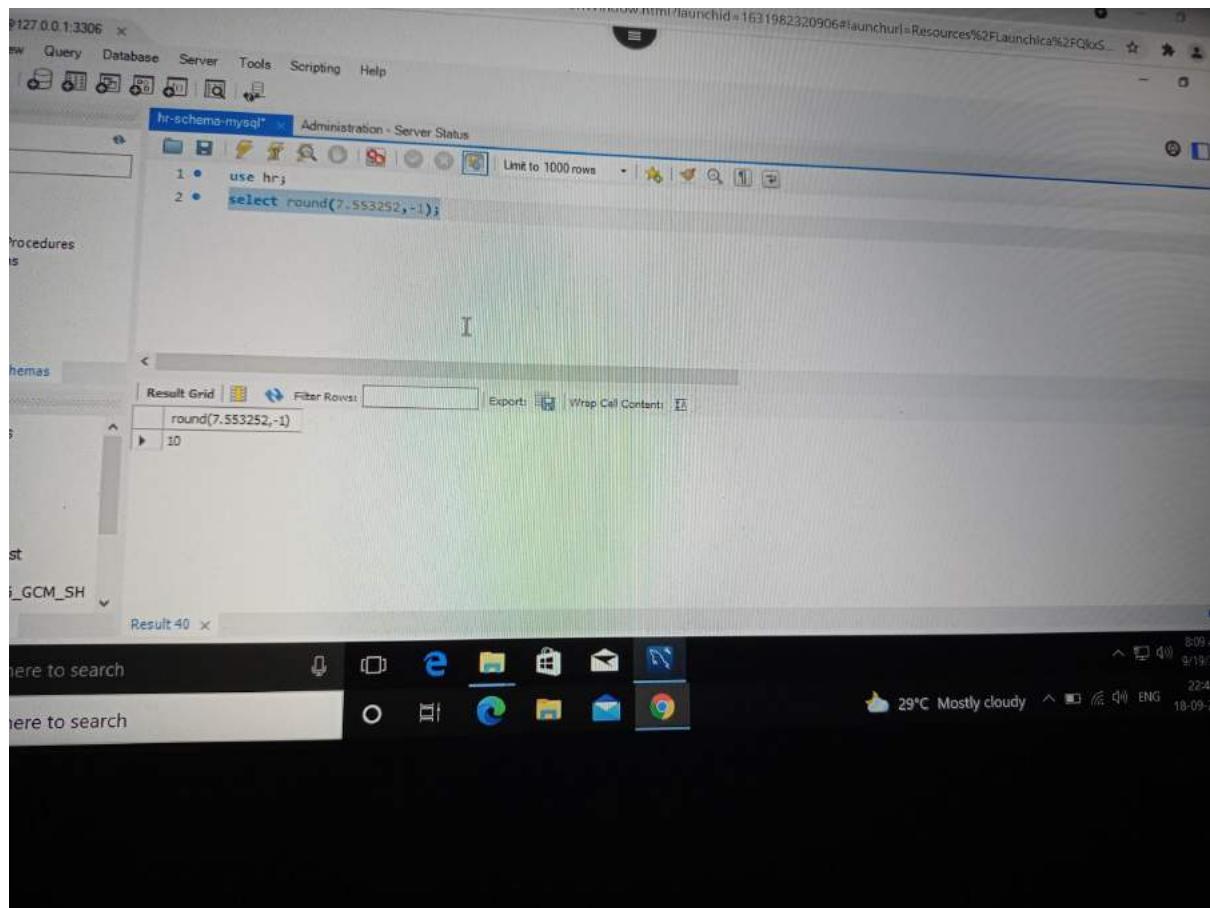
The result grid displays the following data:

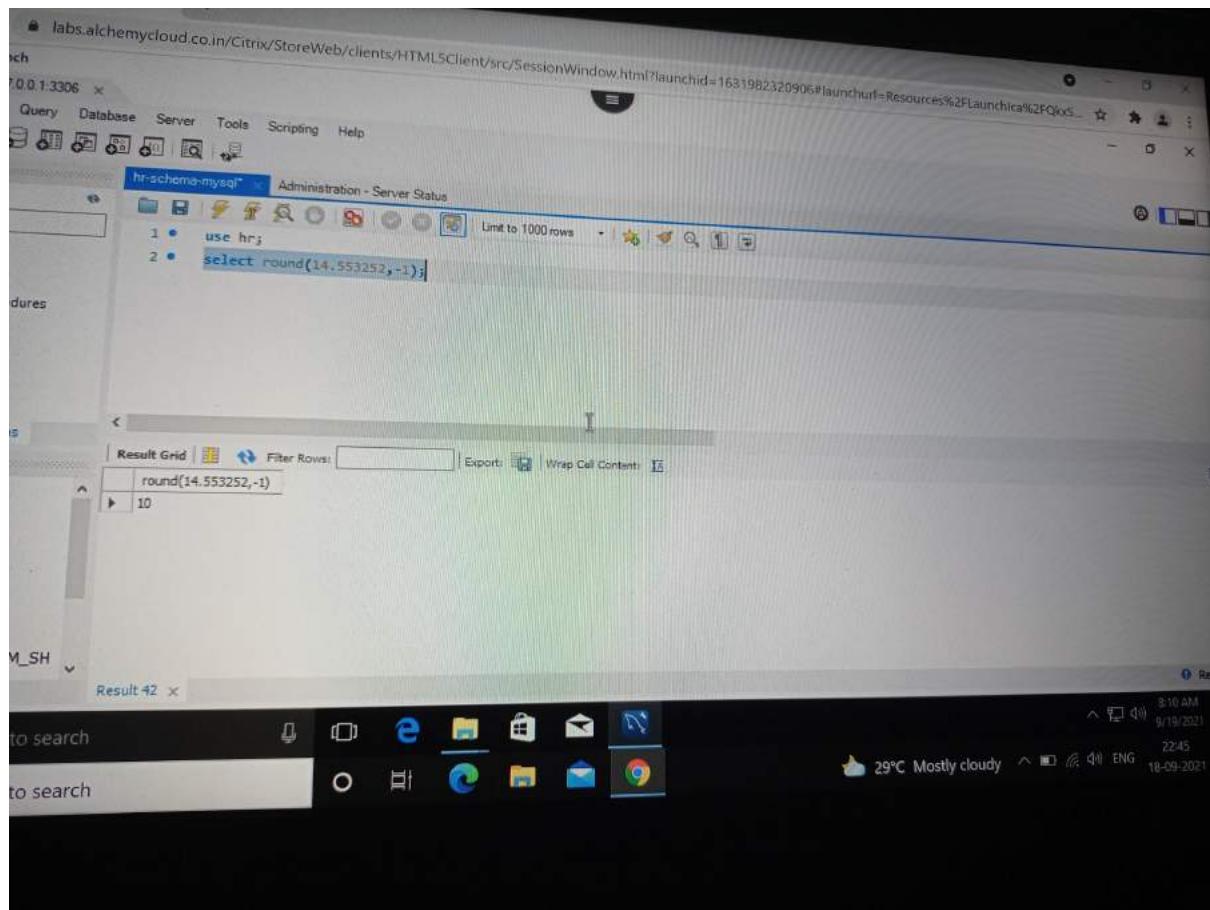
	pow(4,2)
	16

The system tray at the bottom right shows the following information:

- Temperature: 29°C
- Weather: Mostly cloudy
- Battery: 8%
- Signal: 9/9
- Network: 2/2
- Language: ENG
- Date/Time: 18/01/2024







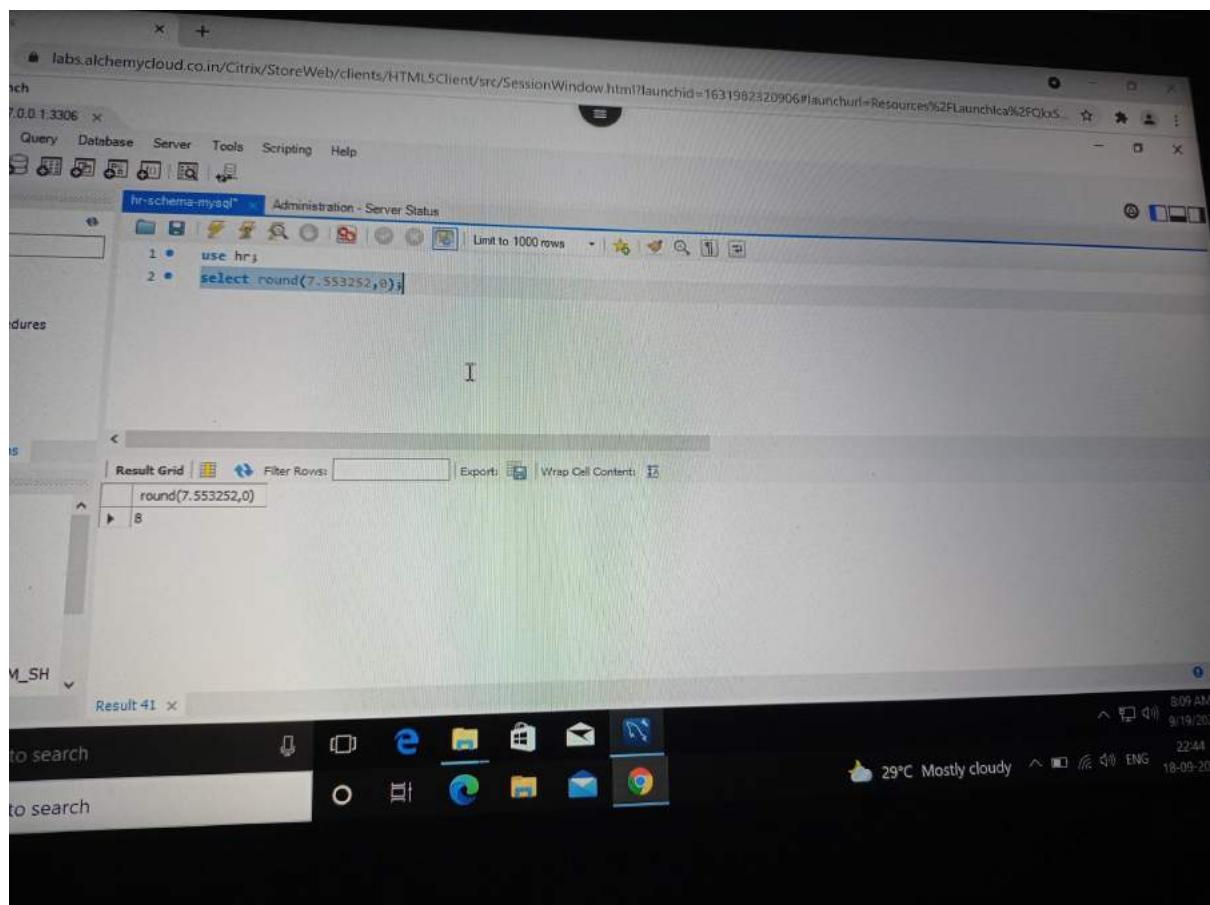
A screenshot of a MySQL client interface. The title bar shows the URL: `labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQkG...`. The main window displays a query in the SQL editor:

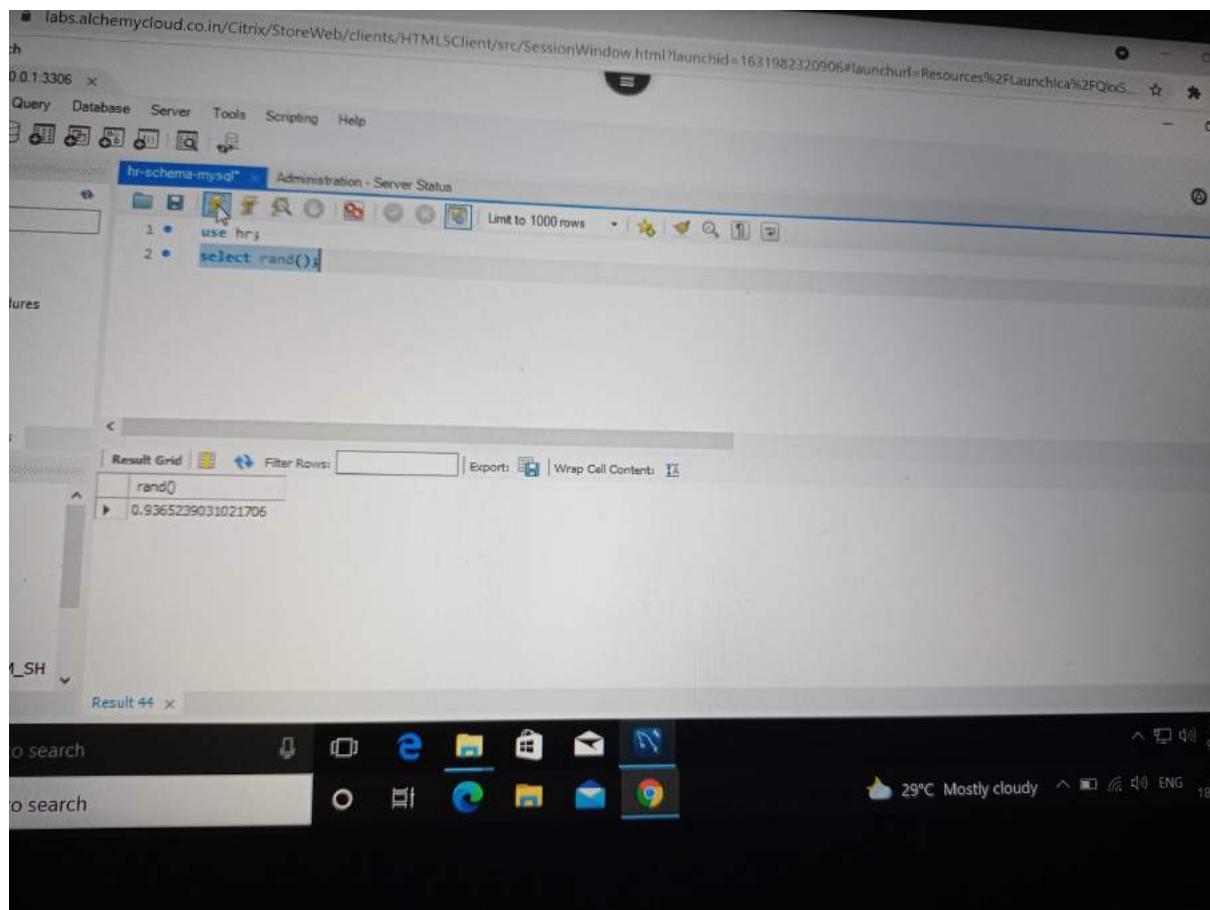
```
1.  use hr;
2.  select round(141.553252,-1);
```

The results are shown in a grid:

round(141.553252,-1)
140

The status bar at the bottom indicates "Result 43". The taskbar at the bottom of the screen shows various application icons, including a search bar, a file icon, a mail icon, and a browser icon.





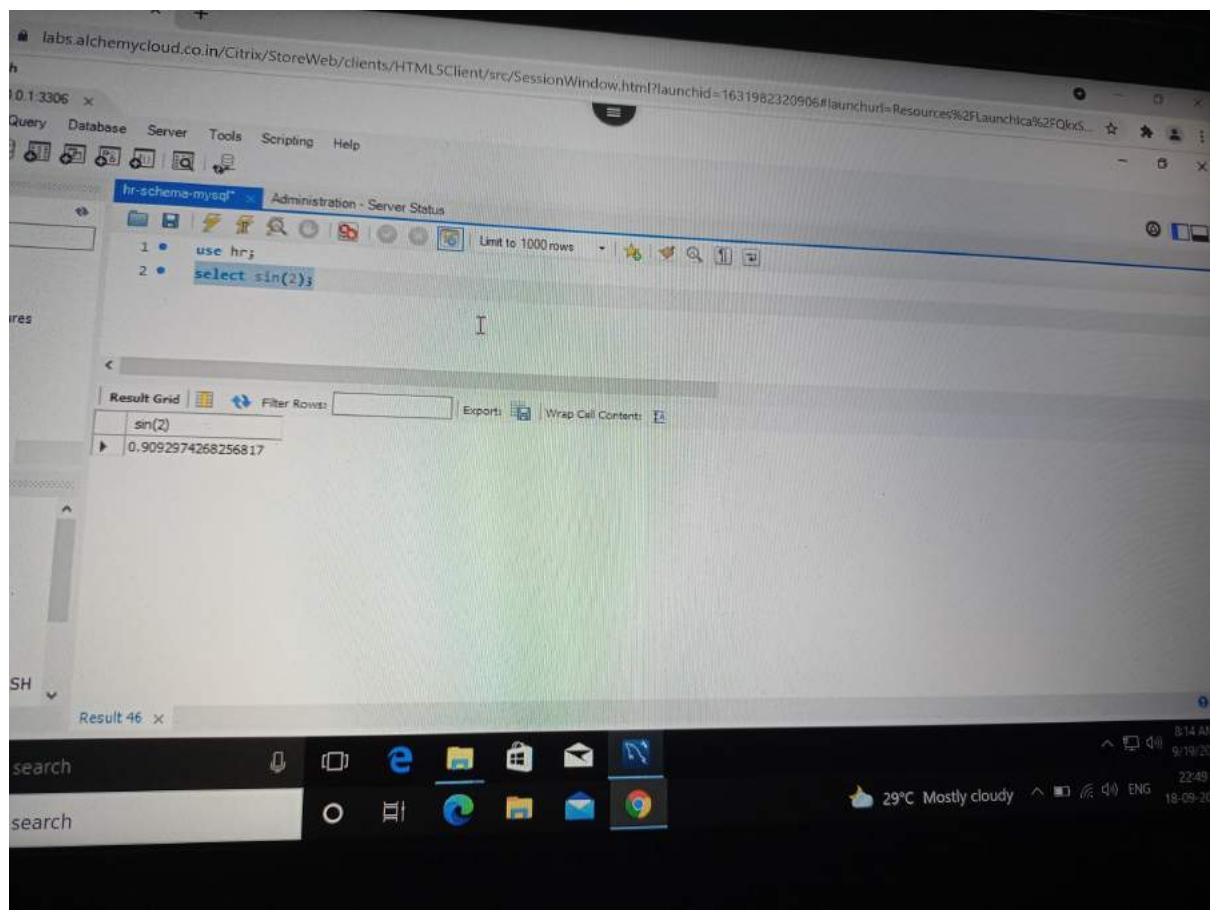
The screenshot shows a MySQL command-line interface window titled "Administration - Server Status". The command entered is:

```
use hr;  
select radians(180);
```

The result grid displays the output of the query:

	Result Grid	Filter Rows:	Export:	Wrap Cell Contents:
	radians(180)			
▶	3.141592653589793			

Below the interface, the Windows taskbar is visible, showing the Start button, search bar, and pinned icons for File Explorer, Edge, File History, Mail, Photos, and Google Chrome. The system tray shows the date (18-09-2021), time (8:13 AM), weather (29°C Mostly cloudy), battery level (22:48), and language (ENG).



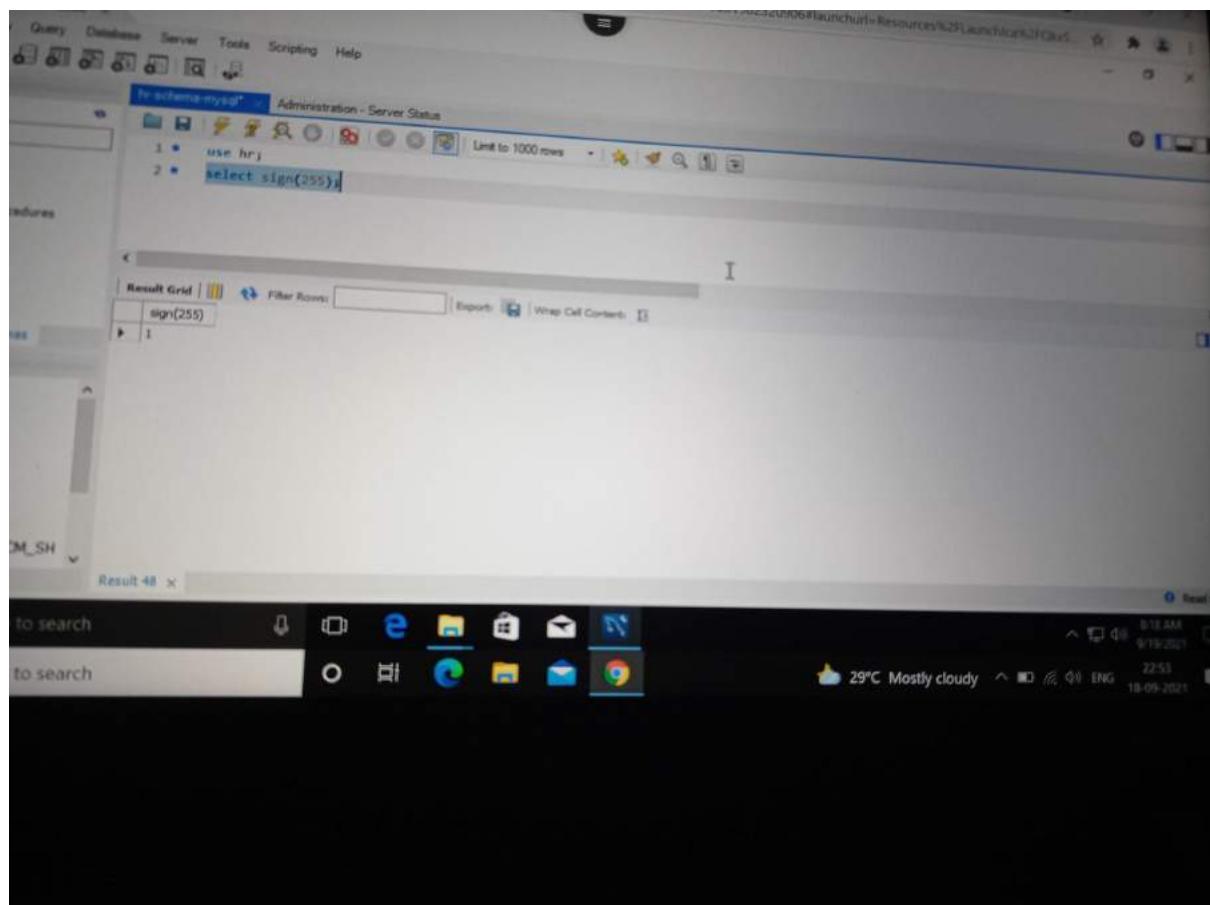
A screenshot of a MySQL query window titled "hr-schema-mysql". The window shows the following SQL code:

```
use hr;
select tan(2);
```

The result grid displays the output of the query:

	tan(2)
	-2.185039863261519

The operating system taskbar at the bottom shows various icons and a weather widget indicating 29°C Mostly cloudy.



https://alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1631982320906#launchurl=Resources%2FLaunchica%2FQkoS...

106 ×

Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;

2 • select sign(-255);

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

sign(-255)
-1

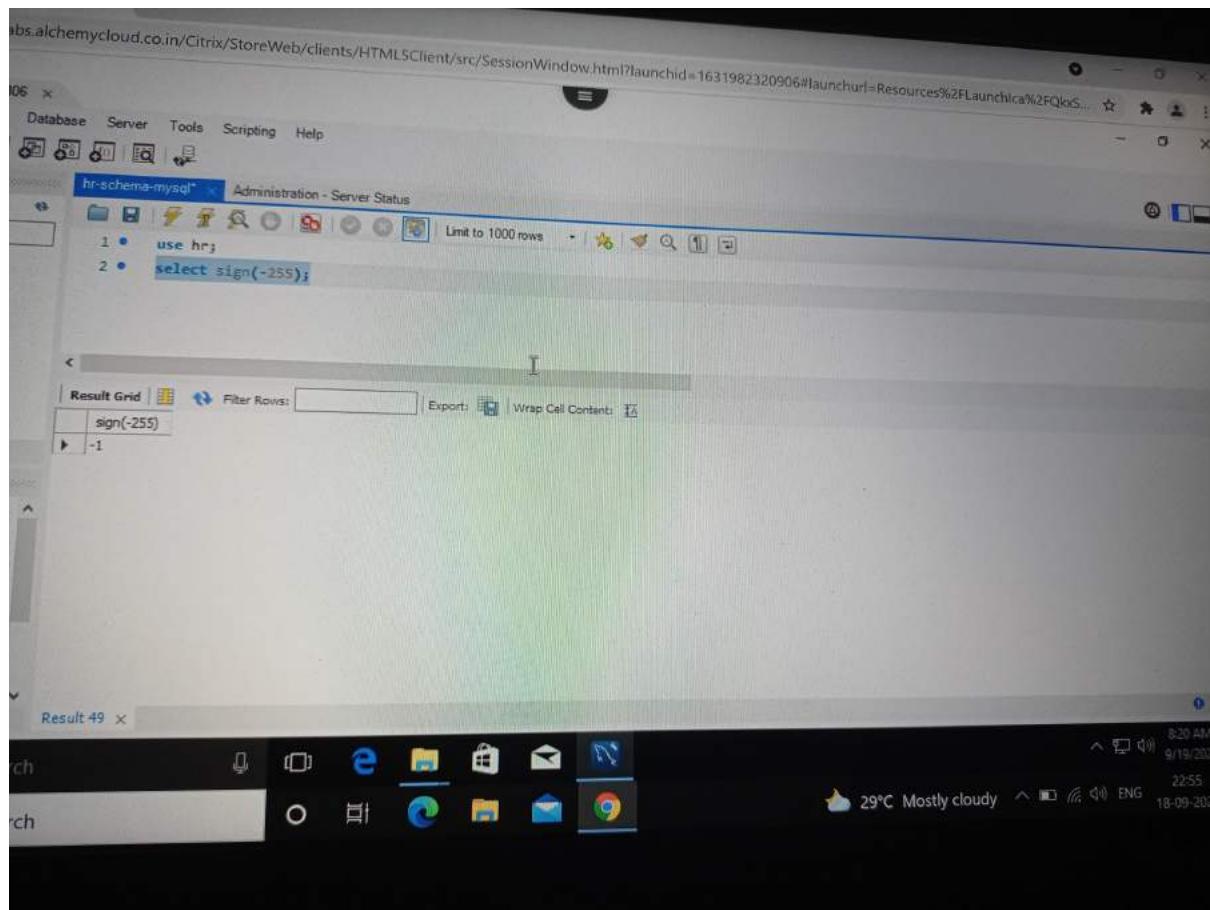
Result 49 ×

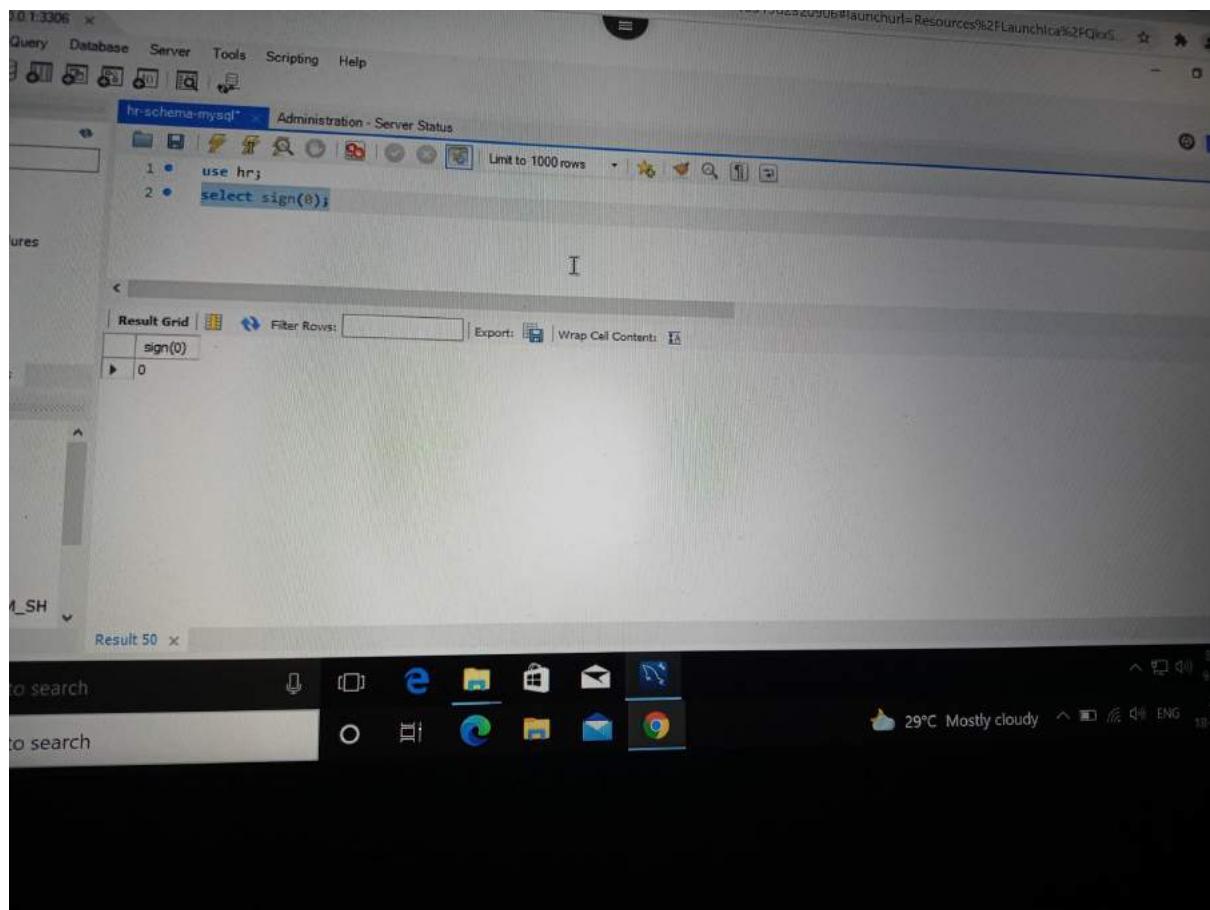
Search []

8:20 AM 9/19/2023 22:55 ENG 18-09-2023

29°C Mostly cloudy

Chrome





3306 ×

My Database Server Tools Scripting Help

hr-schema-mysql Administration - Server Status

1 ● use hr;
2 ● select salary*12 as annualsal from employees;

Result Grid | Filter Rows: Export: Wrap Cell Contents:

annualsal
288000.00
204000.00
204000.00
108000.00
72000.00
57600.00
57600.00
50400.00
144000.00
108000.00
98400.00
92400.00
93600.00

Result 51

SH search 8:23 9/19 22:5
search 18-09-1

search

o

e

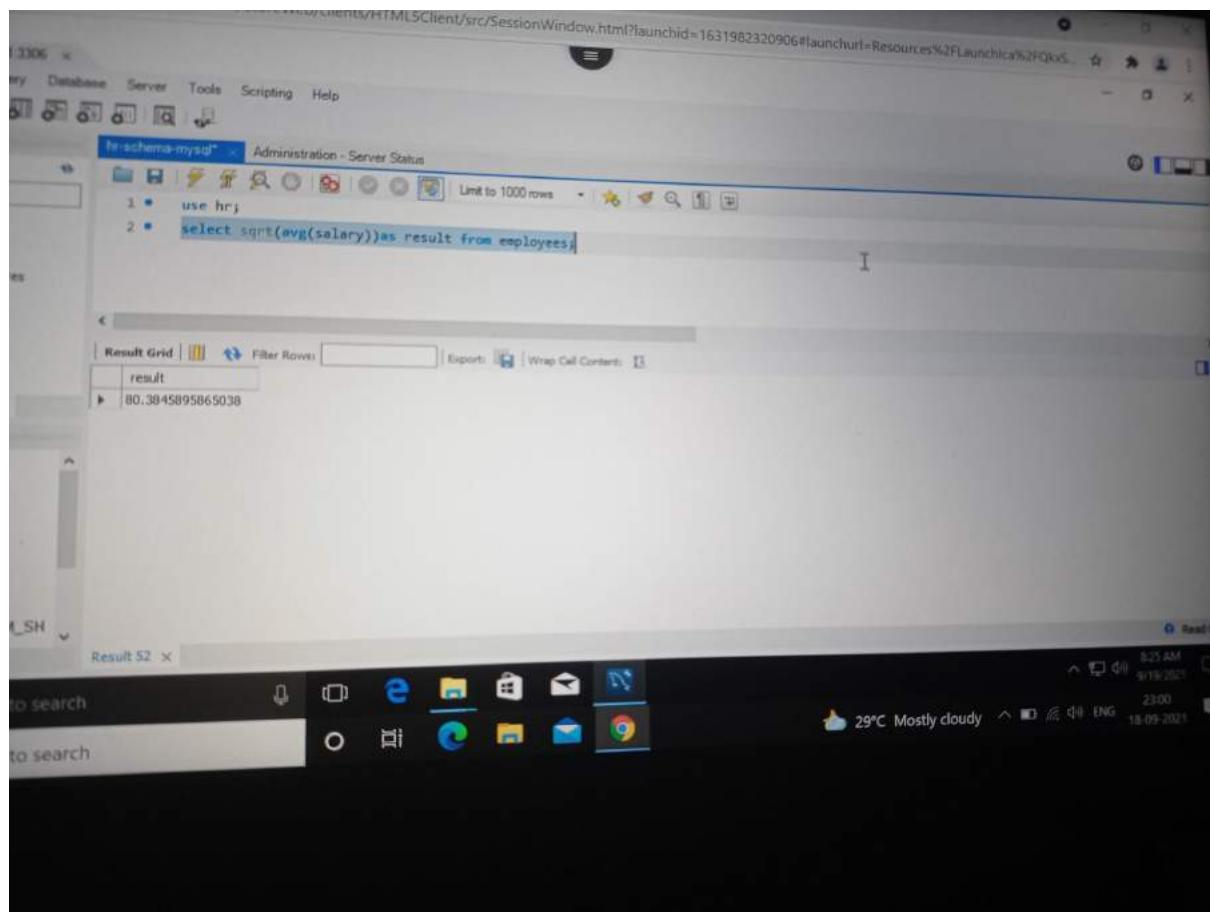
Windows Mail

File Explorer

Mail

Chrome

29°C Mostly cloudy



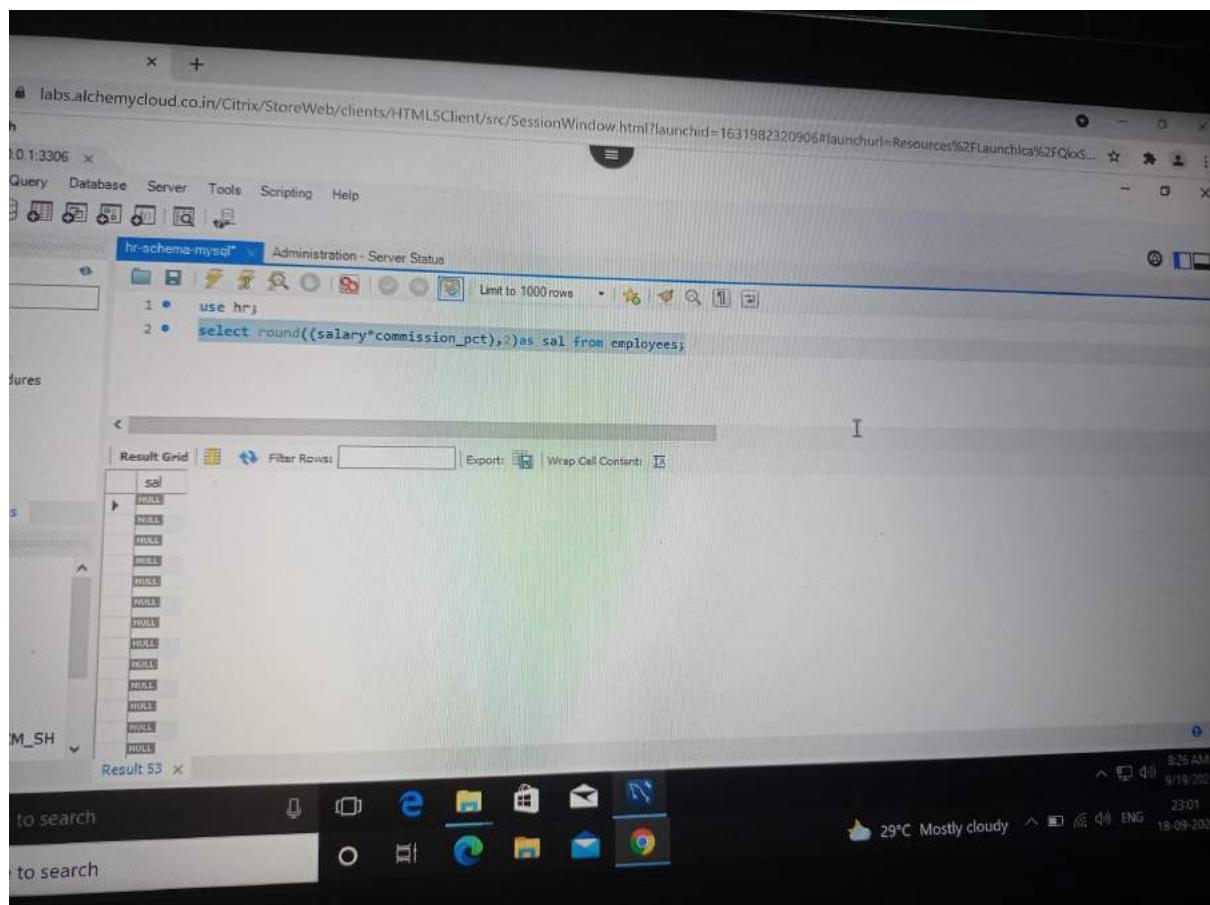
The screenshot shows a MySQL Workbench interface. In the top-left corner, there's a status bar with "13306 x". Below it is a menu bar with "Query", "Database", "Server", "Tools", "Scripting", and "Help". A toolbar with various icons follows. The main area has a title bar "hr-schema-mysql*" and "Administration - Server Status". Below that is a script editor with two lines of SQL:

```
1 • use hr;
2 • select sqrt(avg(salary))as result from employees;
```

Below the script editor is a "Result Grid" table with one row:

result
80.3845895865038

At the bottom of the window, there's a toolbar with "Result 52" and other icons. The background of the desktop shows a dark theme with a taskbar at the bottom containing icons for File Explorer, Edge, Task View, Mail, and Google Chrome. The system tray shows the date (18-09-2021), time (8:25 AM), weather (29°C Mostly cloudy), and battery level (23%).



1.3306 x

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;
2 • select sin(5+6);

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

sin(5+6)
-0.9999902065507035

Result 54 x

search

search

8:27 6/15 234 29°C Mostly cloudy 18:09

The screenshot shows a MySQL client interface with two tabs open. The top tab, titled 'hr-schema-mysql*', contains a SQL query window with the following content:

```
use hr;
select sin(5+6);
```

Below the query window is a 'Result Grid' section with the following data:

sin(5+6)
-0.9999902065507035

The bottom tab, titled 'Result 54', has a search bar and a toolbar with various icons. The system tray at the bottom right shows the date (6/15), time (8:27), weather (29°C Mostly cloudy), and battery status (234). The taskbar at the bottom includes icons for File Explorer, Edge browser, File Explorer, Mail, and Google Chrome.

127.0.0.1:3306 ×

Query Database Server Tools Scripting Help

hr-schema-mysql* Administration - Server Status

1 • use hr;

2 • select acos(@.25);

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

acos(0.25) 1.318116071652818

Result 55 ×

here to search

here to search

12:33 PM 9/19/2021 34°C Rain showers 12:34 ENG 19-09-2021

The screenshot shows a MySQL Workbench interface. In the top-left window, a query is run against the 'hr' database:

```
use hr;
select acos(@.25);
```

The result is displayed in a grid:

acos(0.25)
1.318116071652818

Below the main interface, the Windows taskbar is visible, showing the date and time (12:33 PM, 9/19/2021), weather (34°C Rain showers), battery status (12:34), language (ENG), and system date (19-09-2021).

