

## ASSIGNMENT (1)

### 1) Query to display the names with aliases

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left displays the 'hr' schema. The 'Query Editor' contains the following SQL query:

```
6 SELECT
7 first_name,last_name,
8 first_name AS FirstName ,last_name AS LastName
9 FROM employees;
10
```

The 'Result Grid' shows the output of the query, displaying columns: first\_name, last\_name, FirstName, and LastName. The data is as follows:

first_name	last_name	FirstName	LastName
Steven	King	Steven	King
Neena	Kochhar	Neena	Kochhar
Lex	De Haan	Lex	De Haan
Alexander	Hunold	Alexander	Hunold
Bruce	Ernst	Bruce	Ernst
David	Austin	David	Austin
Valli	Pataballa	Valli	Pataballa
Diana	Lorentz	Diana	Lorentz
Nancy	Greenberg	Nancy	Greenberg
Daniel	Faviet	Daniel	Faviet
John	Chen	John	Chen
Ismail	Sciarra	Ismail	Sciarra
Jose Manuel	Urman	Jose Man...	Urman

The 'Output' pane at the bottom shows the execution details:

#	Time	Action	Message	Duration / Fetch
13	12:14:51	SELECT Department_id from employees LIMIT 0, 1000	107 row(s) returned	0.063 sec / 0.000 sec
14	12:24:04	SELECT first_name,last_name,first_name AS FirstName ,last_name AS LastName FROM emp...	107 row(s) returned	0.016 sec / 0.000 sec

### 2) Query to get unique department id from employees table

The screenshot shows the MySQL Workbench interface. The 'Query Editor' contains the following SQL query:

```
1 use hr;
2
3 /*2nd query*/
4 select distinct (department_id)
5 from employees;
```

The 'Result Grid' shows the output of the query, displaying a single column: department\_id. The data is as follows:

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

The 'Output' pane at the bottom shows the execution details:

#	Time	Action	Message	Duration / Fetch
2	16:10:03	show tables	8 row(s) returned	0.046 sec / 0.000 sec
3	16:11:20	select distinct (department_id) from employees	Error Code: 1054. Unknown column 'department' in 'field list'	0.047 sec
4	16:11:33	select distinct (department_id) from employees	12 row(s) returned	0.031 sec / 0.000 sec

3) A query to get all employee details from the employee table order by first name, descending

MySQL Workbench

Local instance MySQL57 x

File Edit View Query Database Server Tools Scripting Help

Navigator

1st assignment solution\*

```

17 /*3rd query*/
18 SELECT *
19 FROM employees
20 ORDER BY first_name DESC;
21

```

Result Grid

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
180	Winston	Taylor	WTAYLOR	650.507.9876	1998-01-24	SH_CLERK	3200.00	NONE	120	50
171	William	Smith	WSMITH	011.44.1343.629268	1999-02-23	SA_REP	7400.00	0.15	148	80
206	William	Gietz	WGIEZT	514.5.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NONE	205	110
195	Vance	Jones	VJONES	650.501.4876	1999-03-17	SH_CLERK	2800.00	NONE	123	50
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NONE	103	60
141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	NONE	124	50
132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NONE	121	50
190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900.00	NONE	122	50
170	Taylor	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20	148	80
203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NONE	101	40
173	Sundita	Kumar	SKUMAR	011.44.1343.329268	2000-04-21	SA_REP	6100.00	0.10	148	80
166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.10	147	80
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	NONE	90	90

employees 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
17	12:34:29	SELECT * FROM EMPLOYEES ORDER BY Firstname DESC LIMIT 0, 1000	Error Code: 1054. Unknown column 'Firstname' in 'order clause'	0.000 sec
18	12:35:43	SELECT * FROM employees ORDER BY first_name DESC LIMIT 0, 1000	107 row(s) returned	0.000 sec / 0.000 sec

Query Completed

4) A query to get the names (first\_name, last\_name), salary, PF of all the employees (PF is calculated as 15% of salary)

MySQL Workbench

Local instance MySQL57 x

File Edit View Query Database Server Tools Scripting Help

Navigator

1st assignment solution\*

```

21 SELECT * FROM employees;
22
23 select first_name,last_name,salary,salary*0.15 PF
24 from employees;
25

```

Result Grid

first_name	last_name	salary	PF
Steven	King	24000.00	3600.0000
Neena	Kochhar	17000.00	2550.0000
Lex	De Haan	17000.00	2550.0000
Alexander	Hunold	9000.00	1350.0000
Bruce	Ernst	6000.00	900.0000
David	Austin	4800.00	720.0000
Valli	Pataballa	4800.00	720.0000
Diana	Lorentz	4200.00	630.0000
Nancy	Greenberg	12000.00	1800.0000
Daniel	Faviet	9000.00	1350.0000
John	Chen	8200.00	1230.0000
Ismael	Sciarra	7700.00	1155.0000
Jose Manuel	Urman	7800.00	1170.0000

Result 17 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:16:18	select first_name,last_name,salary,salary*0.15 PF from employ...	107 row(s) returned	0.000 sec / 0.000 sec

Query Completed

5) Query to get the employee ID, names (first\_name, last\_name), salary in ascending order of salary

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

```
25  
26 /*5th query*/  
27 • select employee_id,first_name,last_name,salary  
28 from employees  
29 order by salary ASC;
```

The Result Grid displays the following data:

employee_id	first_name	last_name	salary
132	TJ	Olson	2100.00
128	Steven	Markle	2200.00
136	Hazel	Philtanker	2200.00
127	James	Landry	2400.00
135	Ki	Gee	2400.00
119	Karen	Colmenares	2500.00
131	James	Marlow	2500.00
140	Joshua	Patel	2500.00
144	Peter	Vargas	2500.00
182	Martha	Sullivan	2500.00
191	Randall	Perkins	2500.00
118	Guy	Himuro	2600.00
143	Randall	Matos	2600.00

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	13:16:18	select first_name,last_name,salary,salary*.15 PF from employ...	107 row(s) returned	0.000 sec / 0.000 sec
2	13:19:48	select employee_id,first_name,last_name,salary from employe...	107 row(s) returned	0.000 sec / 0.000 sec

6) Query to get the total salaries payable to employees

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

```
29 order by salary ASC;  
30  
31 • SELECT SUM(salary)  
32 FROM employees;  
33
```

The Result Grid displays the following data:

SUM(salary)
691400.00

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	13:16:18	select first_name,last_name,salary,salary*.15 PF from employ...	107 row(s) returned	0.000 sec / 0.000 sec
2	13:19:48	select employee_id,first_name,last_name,salary from employe...	107 row(s) returned	0.000 sec / 0.000 sec
3	13:24:55	SELECT SUM(salary) FROM employees LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec

## 7) Query to get the maximum and minimum salary from employees table

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

```
31 SELECT SUM(salary)
32 FROM employees;
33
34 Select max(salary),min(salary)
35 from employees;
```

The result grid displays the output of the second query:

max(salary)	min(salary)
24000.00	2100.00

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
2	13:19:48	select employee_id,first_name,last_name,salary from employ...	107 row(s) returned	0.000 sec / 0.000 sec
3	13:24:55	SELECT SUM(salary) FROM employees LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec
4	13:28:38	Select max(salary),min(salary) from employees LIMIT 0, 1000	1 row(s) returned	0.062 sec / 0.000 sec

## 8) Query to get the average salary and number of employees in the employees table

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

```
34 Select max(salary),min(salary)
35 from employees;
36
37 Select avg(salary),count(employee_id)
38 from employees;
```

The result grid displays the output of the second query:

avg(salary)	count(employee_id)
6461.682243	107

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
1	13:33:07	Select avg(salary),count(employee_id) from employees LIMIT ...	1 row(s) returned	0.000 sec / 0.000 sec

## 9) Query to get the number of employees working with the company

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

```
38 from employees;  
39  
40 /*9th query*/  
41 select count(employee_id)  
42 from employees;
```

The result grid shows one row with the value 107.

The output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
2	13:35:26	select "from Department LIMIT 0, 1000	Error Code: 1146. Table 'hr.department' doesn't exist	0.000 sec
3	13:35:40	select "from department LIMIT 0, 1000	Error Code: 1146. Table 'hr.department' doesn't exist	0.000 sec
4	13:41:25	select count(employee_id) from employees LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec

Query Completed

## 10) Query to get the number of jobs available in the employees table

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

```
42 from employees;  
43  
44 /*10th query*/  
45 select count(job_id)  
46 from employees;
```

The result grid shows one row with the value 107.

The output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
3	13:35:40	select "from department LIMIT 0, 1000	Error Code: 1146. Table 'hr.department' doesn't exist	0.000 sec
4	13:41:25	select count(employee_id) from employees LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec
5	13:44:59	select count(job_id) from employees LIMIT 0, 1000	1 row(s) returned	0.437 sec / 0.000 sec

Query Completed

11) Query to get all first name from employees table in upper case.

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

```
47  
48 /*11th query*/  
49 SELECT UPPER(first_name)  
50 FROM employees;  
51
```

The Results grid displays the output of the query, showing the first names of employees in uppercase:

UPPER(first_name)
STEVEN
NEENA
LEX
ALEXANDER
BRUCE
DAVID
VALLI
DIANA
NANCY
DANIEL
JOHN
ISMAEL

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
4	13:41:25	select count(employee_id) from employees LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec
5	13:44:59	select count(job_id) from employees LIMIT 0, 1000	1 row(s) returned	0.437 sec / 0.000 sec
6	13:47:52	SELECT UPPER(first_name) FROM employees LIMIT 0, 1000	107 row(s) returned	0.094 sec / 0.000 sec

12) A query to get the first 3 characters of first name from employees table.

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

```
51  
52 /*12th Query*/  
53 select substr(first_name,1,3)  
54 from employees;  
55
```

The Results grid displays the output of the query, showing the first 3 characters of the first names of employees:

substr(first_name,1,3)
Ste
Nee
Lex
Ale
Bru
Dav
Val
Dia
Nan
Dan
Joh
Ism

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
8	13:50:48	select substr(first_name,3) from employees LIMIT 0, 1000	107 row(s) returned	0.062 sec / 0.000 sec
9	13:52:32	select substr(first_name,0,3) from employees LIMIT 0, 1000	107 row(s) returned	0.000 sec / 0.000 sec
10	13:52:43	select substr(first_name,1,3) from employees LIMIT 0, 1000	107 row(s) returned	0.000 sec / 0.000 sec

13) A query to get first name from employees table after removing white spaces from both side.

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

```

55
56 /*13th Query*/
57 select trim(first_name) as first_name
58 from employees;
59

```

The Results tab displays the output of the query, showing a list of first names with leading and trailing spaces removed:

first_name
Steven
Neena
Lex
Alexander
Bruce
David
Valli
Diana
Nancy
Daniel
John
Ismael

The Output tab shows the execution log with the following messages:

#	Time	Action	Message	Duration / Fetch
10	13:52:43	select substring(first_name,1,3) from employees LIMIT 0, 1000	107 row(s) returned	0.000 sec / 0.000 sec
11	13:58:49	select trim(first_name) from employees LIMIT 0, 1000	107 row(s) returned	0.000 sec / 0.000 sec
12	14:01:18	select trim(first_name) as first_name from employees LIMIT 0, ...	107 row(s) returned	0.000 sec / 0.000 sec

14) A query to get the length of the employee names (first\_name, last\_name) from employees table.

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

```

59
60 /*14th query*/
61 select first_name,last_name,length(first_name),length(last_name),length(first_name)+length(last_name) As 'total_len'
62 from employees;
63

```

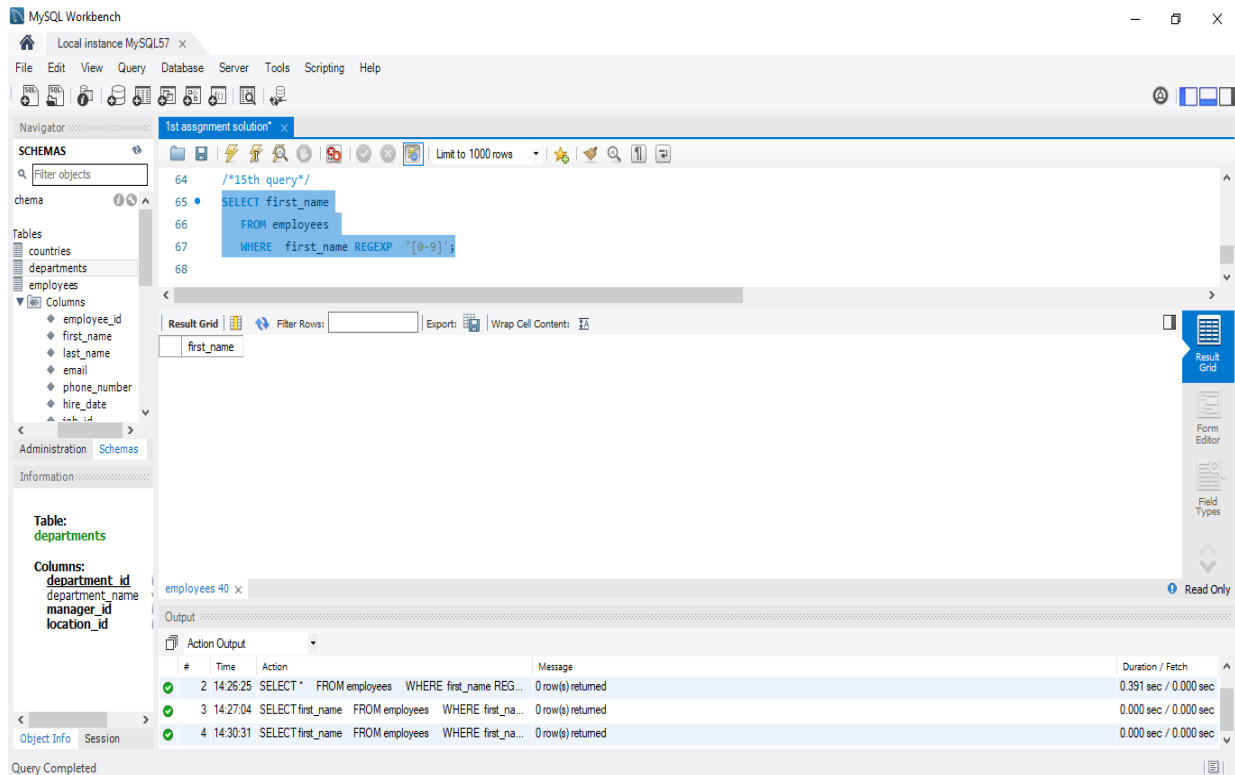
The Results tab displays the output of the query, showing employee names and their lengths:

first_name	last_name	length(first_name)	length(last_name)	total_len
Steven	King	6	4	10
Neena	Kochhar	5	7	12
Lex	De Haan	3	7	10
Alexander	Hunold	9	6	15
Bruce	Ernst	5	5	10
David	Austin	5	6	11
Valli	Pataballa	5	9	14
Diana	Lorentz	5	7	12
Nancy	Greenberg	5	9	14
Daniel	Faviet	6	6	12
John	Chen	4	4	8
Ismael	Sclarra	6	7	13

The Output tab shows the execution log with the following message:

#	Time	Action	Message	Duration / Fetch
1	14:18:38	select first_name,last_name,length(first_name),length(last_name),length(first_name)+length(last_name) As 'total_len' from employees;	107 row(s) returned	0.000 sec / 0.000 sec

15) A query to check if the first\_name fields of the employees table contains numbers.



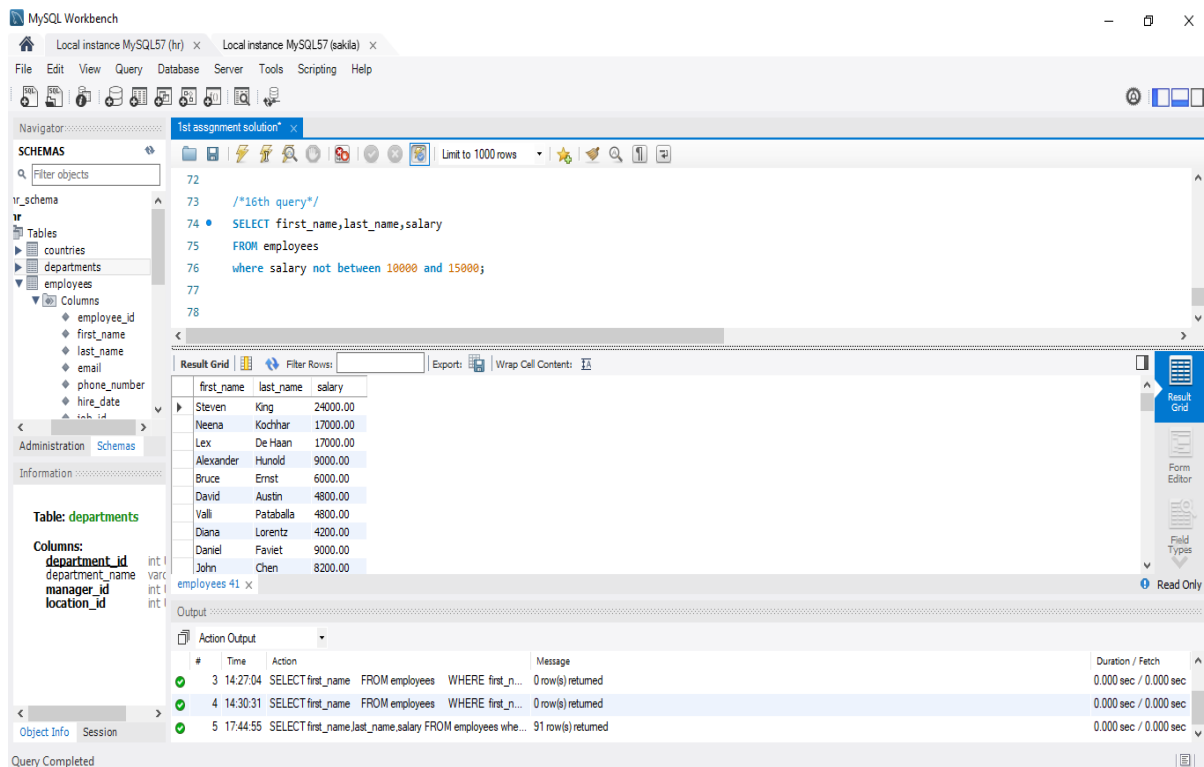
The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
/*15th query*/
SELECT first_name
FROM employees
WHERE first_name REGEXP '[0-9]';
```

The left sidebar shows the database schema with tables: countries, departments, and employees. The employees table columns are: employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, and job\_id. The bottom output pane shows the results of the query, indicating 0 rows returned.

#	Time	Action	Message	Duration / Fetch
2	14:26:25	SELECT * FROM employees WHERE first_name REGEXP '[0-9]';	0 row(s) returned	0.391 sec / 0.000 sec
3	14:27:04	SELECT first_name FROM employees WHERE first_name REGEXP '[0-9]';	0 row(s) returned	0.000 sec / 0.000 sec
4	14:30:31	SELECT first_name FROM employees WHERE first_name REGEXP '[0-9]';	0 row(s) returned	0.000 sec / 0.000 sec

16) A query to display the name (first\_name, last\_name) and salary for all employees whose salary is not in the range \$10,000 through \$15,000.



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

```
/*16th query*/
SELECT first_name, last_name, salary
FROM employees
where salary not between 10000 and 15000;
```

The left sidebar shows the database schema with tables: countries, departments, and employees. The employees table columns are: employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, and job\_id. The bottom output pane shows the results of the query, displaying 11 rows of employee data.

first_name	last_name	salary
Steven	King	24000.00
Neena	Kochhar	17000.00
Lex	De Haan	17000.00
Alexander	Hunold	9000.00
Bruce	Ernst	6000.00
David	Austin	4800.00
Valli	Pataballa	4800.00
Diana	Lorentz	4200.00
Daniel	Faviet	9000.00
John	Chen	8200.00



17) A query to display the name (first\_name, last\_name) and department ID of all employees in departments 30 or 100 in ascending order.

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

```

/*17th Query*/
select first_name,last_name,department_id
from employees
where department_id in(30,100)
order by department_id asc;

```

The Result Grid displays the following data:

first_name	last_name	department_id
Den	Raphaely	30
Alexander	Khoo	30
Shelli	Baida	30
Sigal	Tobias	30
Guy	Himuro	30
Karen	Colmenares	30
Nancy	Greenberg	100
Daniel	Faviet	100
John	Chen	100
Ismael	Sciarra	100
Jose Manuel	Urman	100

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
4	14:30:31	SELECT first_name FROM employees WHERE first_n...	0 row(s) returned	0.000 sec / 0.000 sec
5	17:44:55	SELECT first_name,last_name,salary FROM employees whe...	91 row(s) returned	0.000 sec / 0.000 sec
6	17:53:58	select first_name,last_name,department_id from employees ...	12 row(s) returned	0.078 sec / 0.000 sec

18) A query to display the name (first\_name, last\_name) and salary for all employees whose salary is not in the range \$10,000 through \$15,000 and are in department 30 or 100.

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

```

/*18th query*/
select first_name,last_name,salary,department_id
from employees
where (salary not between 10000 and 15000) and department_id in(30,100);

```

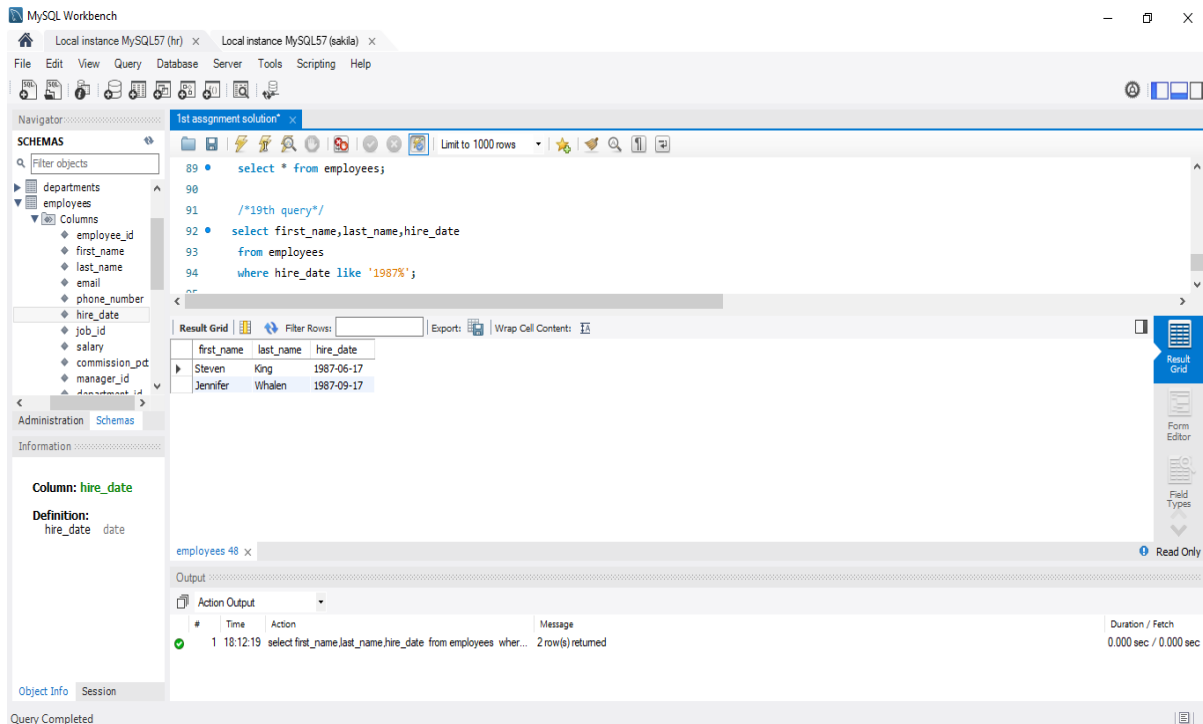
The Result Grid displays the following data:

first_name	last_name	salary	department_id
Alexander	Khoo	3100.00	30
Shelli	Baida	2900.00	30
Sigal	Tobias	2800.00	30
Guy	Himuro	2600.00	30
Karen	Colmenares	2500.00	30
Daniel	Faviet	9000.00	100
John	Chen	8200.00	100
Ismael	Sciarra	7700.00	100
Jose Manuel	Urman	7800.00	100
Luis	Popp	6900.00	100

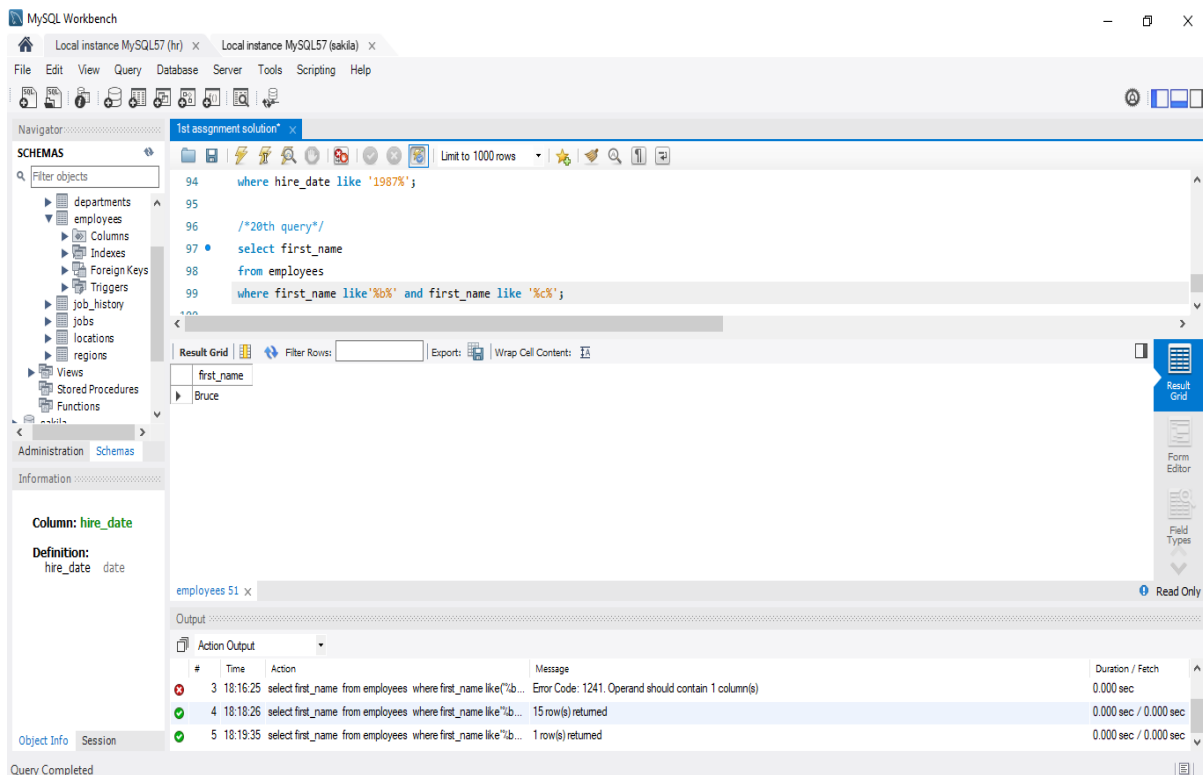
The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
8	18:03:13	select first_name,last_name,salary,department_id from empl...	12 row(s) returned	0.000 sec / 0.000 sec
9	18:04:00	select first_name,last_name,salary,department_id from empl...	Error Code: 1241. Operand should contain 1 column(s)	0.000 sec
10	18:05:01	select first_name,last_name,salary,department_id from empl...	10 row(s) returned	0.000 sec / 0.000 sec

19) A query to display the name (first\_name, last\_name) and hire date for all employees who were hired in 1987.



20) A query to display the first\_name of all employees who have both "b" and "c" in their first name.



21) A query to display the last name, job, and salary for all employees whose job is that of a Programmer or a Shipping Clerk, and whose salary is not equal to \$4,500, \$10,000, or \$15,000

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

```
/*21th query*/
select last_name,job_title,salary
from employees, jobs
where job_title in('programmer','Shipping Clerk') and salary not in ( 4500, 10000 ,15000);
```

The result grid displays the following data:

last_name	job_title	salary
King	Programmer	24000.00
King	Shipping Clerk	24000.00
Kochhar	Programmer	17000.00
Kochhar	Shipping Clerk	17000.00
De Haan	Programmer	17000.00
De Haan	Shipping Clerk	17000.00
Hunold	Programmer	9000.00
Hunold	Shipping Clerk	9000.00
Ernst	Programmer	6000.00
Ernst	Shipping Clerk	6000.00
Austin	Programmer	4800.00

The output pane shows the execution log with the following messages:

#	Time	Action	Message	Duration / Fetch
10	18:31:17	select last_name,job_title,salary from employees, jobs wher...	214 row(s) returned	0.000 sec / 0.000 sec
11	18:32:16	select last_name,job_title,salary from employees, jobs wher...	214 row(s) returned	0.000 sec / 0.016 sec
12	18:34:30	select last_name,job_title,salary from employees, jobs wher...	206 row(s) returned	0.000 sec / 0.000 sec

22) A query to display the last name of employees whose names have exactly 6 characters.

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

```
/*22nd query*/
select last_name
from employees
where length(last_name)=6;
```

The result grid displays the following data:

last_name
Hunold
Austin
Faviet
Tobias
Himuro
Landry
Markle
Bissot
Marlow
Mallin
Rooers

The output pane shows the execution log with the following messages:

#	Time	Action	Message	Duration / Fetch
12	18:34:30	select last_name,job_title,salary from employees, jobs wher...	206 row(s) returned	0.000 sec / 0.000 sec
13	18:39:02	select last_name from employees where len(last_name)=6 ...	Error Code: 1305. FUNCTION hr.len does not exist	0.016 sec
14	18:39:16	select last_name from employees where length(last_name)...	28 row(s) returned	0.000 sec / 0.000 sec

23) A query to display the last name of employees having 'e' as the third character.

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

```

/*23rd query*/
SELECT last_name
FROM employees
WHERE last_name LIKE '__e%';

```

The result grid displays the last names of employees whose last name has 'e' as the third character:

last_name
Greenberg
Chen
Gee
McEwen
Greene
Lee
Ozer
Abel
Fleaur
Everett
Feenev

The output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
14	18:39:16	select last_name from employees where length(last_name)...	28 row(s) returned	0.000 sec / 0.000 sec
15	18:50:40	SELECT last_name FROM employees WHERE last_name...	13 row(s) returned	0.015 sec / 0.000 sec
16	18:52:05	SELECT last_name FROM employees WHERE last_name...	13 row(s) returned	0.016 sec / 0.000 sec

24) A query to get the job\_id and related employee's id.

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

```

/*24th query*/
select job_id, GROUP_CONCAT(employee_id, ' ') 'Employees ID'
from employees GROUP BY job_id;

```

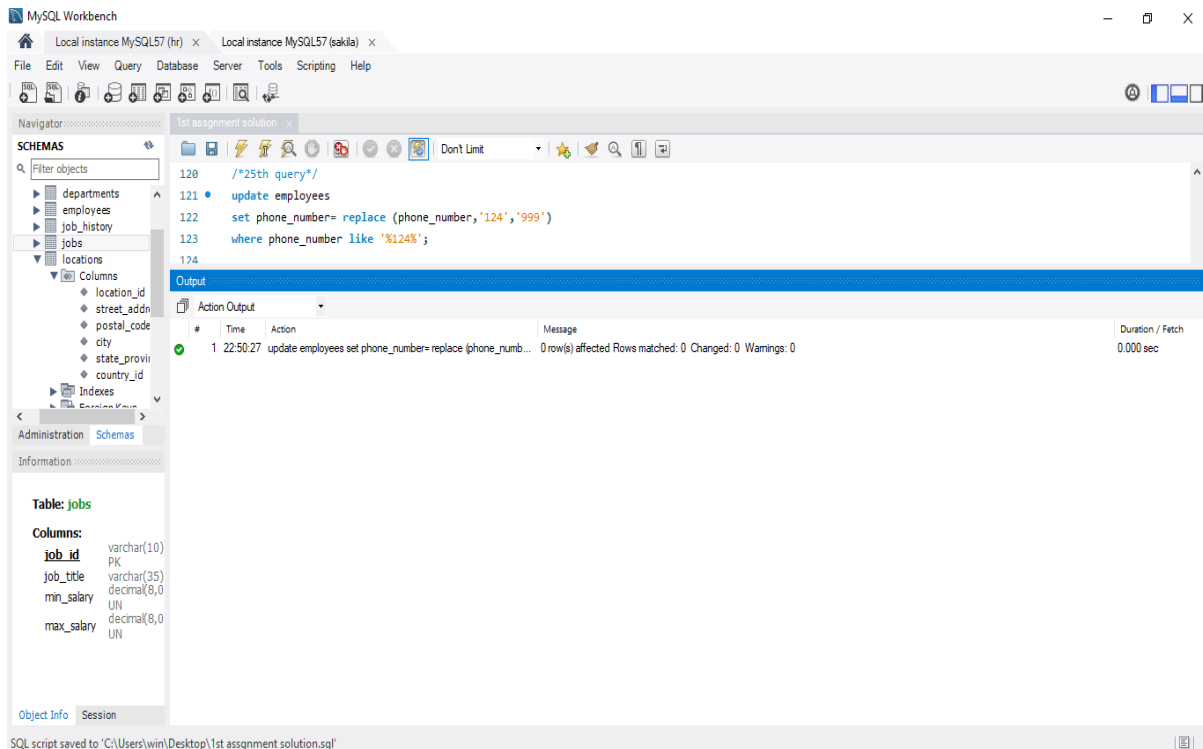
The result grid displays the job\_id and the related employee's id:

job_id	Employees ID
AC_ACCOUNT	206
AC_MGR	205
AD_ASST	200
AD_PRES	100
AD_VP	101, 102
FI_ACCOUNT	109, 110, 111, 112, 113
FI_MGR	108
HR_REP	203
IT_PROG	103, 104, 105, 106, 107
MK_MAN	201
MK_REP	202
PR_REP	204

The output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
18	19:00:57	Select distinct job_id, employee_id from employees	107 row(s) returned	0.000 sec / 0.000 sec
19	19:02:56	SELECT job_id, GROUP_CONCAT(employee_id, ' ') 'Emplo...	19 row(s) returned	0.078 sec / 0.000 sec
20	19:09:42	select job_id, GROUP_CONCAT(employee_id, ' ') 'Emplo...	19 row(s) returned	0.015 sec / 0.000 sec

25) A query to update the portion of the phone\_number in the employees table, within the phone number the substring '124' will be replaced by '999'.



The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left displays the 'employees' table structure. The main editor shows the following SQL query:

```

120 /*25th query*/
121 update employees
122 set phone_number= replace (phone_number,'124','999')
123 where phone_number like '%124%';
124

```

The 'Output' pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	22:50:27	update employees set phone_number=replace (phone_number,'124','999')	0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0	0.000 sec

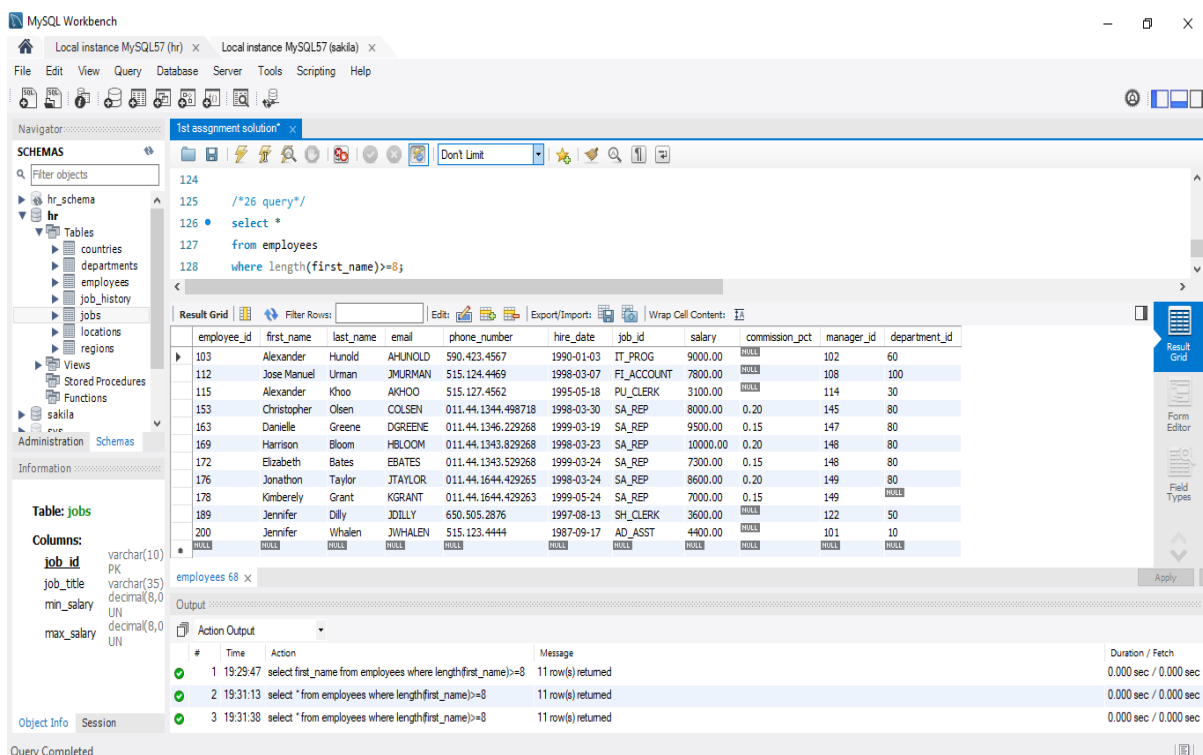
The 'Table: jobs' structure is also visible in the left pane:

```

Columns:
job_id      varchar(10) PK
job_title   varchar(35)
min_salary  decimal(8,0) UN
max_salary  decimal(8,0) UN

```

26) A query to get the details of the employees where the length of the first name greater than or equal to 8.



The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left displays the 'employees' table structure. The main editor shows the following SQL query:

```

124
125 /*26 query*/
126 select *
127 from employees
128 where length(first_name)>=8;

```

The 'Result Grid' shows the execution results:

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00	0.00	102	60
112	Jose Manuel	Uman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	0.00	108	100
115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00	0.00	114	30
153	Christopher	Olsen	COlsen	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0.20	145	80
163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	0.15	147	80
169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00	0.20	148	80
172	Elizabeth	Bates	EBATES	011.44.1343.529268	1999-03-24	SA_REP	7300.00	0.15	148	80
176	Jonathan	Taylor	JTAYLOR	011.44.1644.429265	1998-03-24	SA_REP	8600.00	0.20	149	80
178	Kimberly	Grant	KGRANT	011.44.1644.429263	1999-05-24	SA_REP	7000.00	0.15	149	80
189	Jennifer	Dilly	JDILLY	650.505.2876	1997-08-13	SH_CLERK	3600.00	0.00	122	50
200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-17	AD_ASST	4400.00	0.00	101	10

The 'Output' pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	19:29:47	select first_name from employees where length(first_name)>=8	11 row(s) returned	0.000 sec / 0.000 sec
2	19:31:13	select * from employees where length(first_name)>=8	11 row(s) returned	0.000 sec / 0.000 sec
3	19:31:38	select * from employees where length(first_name)>=8	11 row(s) returned	0.000 sec / 0.000 sec

27) A query to append '@example.com' to email field.

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

```
131  
132 /*27th query*/  
133 SELECT CONCAT(email , "@example.com") AS Email_id  
134 FROM employees;  
135
```

The result grid displays the output of the query, showing the email addresses with '@example.com' appended. The output is as follows:

Email_id
SKING@example.com
NKOCHHAR@example.com
LDEHAAN@example.com
AHUNOLD@example.com
BERNST@example.com
DAUSTIN@example.com
VPATABAL@example.com
DLORENTZ@example.com
NGREENBE@example.com
DFAVIET@example.com
JOHEN@example.com
ISCIARRA@example.com

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
5	19:38:05	SELECT CONCAT(email , "@example.com") AS Email_id Fr...	107 row(s) returned	0.047 sec / 0.000 sec
6	19:38:34	select * from employees	107 row(s) returned	0.000 sec / 0.000 sec
7	19:39:45	SELECT CONCAT(email , "@example.com") AS Email_id Fr...	107 row(s) returned	0.000 sec / 0.000 sec

28) A query to extract the last 4 character of phone numbers.

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

```
135  
136 /*28th query*/  
137 select phone_number, right(phone_number,4) AS last_4  
138 from employees;  
139
```

The result grid displays the output of the query, showing the phone numbers and their last 4 characters. The output is as follows:

phone_number	last_4
515.123.4567	4567
515.123.4568	4568
515.123.4569	4569
590.423.4567	4567
590.423.4568	4568
590.423.4569	4569
590.423.4560	4560
590.423.5567	5567
515.124.4569	4569
515.124.4169	4169
515.124.4269	4269
515.124.4369	4369

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
12	19:49:41	SELECT * FROM TABLES	Error Code: 1146. Table 'hr.tables' doesn't exist	0.015 sec
13	19:49:52	select right(phone_number,4) AS last_4 from employees	107 row(s) returned	0.016 sec / 0.000 sec
14	19:50:41	select phone_number, right(phone_number,4) AS last_4 from...	107 row(s) returned	0.000 sec / 0.000 sec

29) A query to get the last word of the street address.

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

```
142
143 • Select SUBSTRING_INDEX(street_address, ' ', -1) As last_streetaddress
144 from locations;
145
146
```

The result grid displays the output of the query:

last_streetaddress
(E)
Street
North
St
Park
Road
7031
Corps-Saints
921
837
9991

The bottom panel shows the execution log with three successful queries, each returning 23 rows.

30) A query to get the locations that have minimum street length.

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

```
146 /*30th query*/
147 • SELECT * FROM locations
148 WHERE LENGTH(street_address) <= (SELECT MIN(LENGTH(street_address))
149 FROM locations);
150
```

The result grid displays the output of the query:

location_id	street_address	postal_code	city	state_province	country_id
1600	2007 Zagora St	50090	South Brunswick	New Jersey	US
2400	8204 Arthur St	90046	London	MASS	UK

The bottom panel shows the execution log with three queries. The first two queries (26 and 27) failed with Error Code: 1111, Invalid use of group function. The third query (28) was successful, returning 2 rows.

31) A query to display the first word from those job titles which contains more than one words.

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

```

/*31 query*/
SELECT SUBSTRING_INDEX(job_title, ' ', 1) as First_word, job_title
FROM jobs;

```

The result grid displays the following data:

First_word	job_title
Public	Public Accountant
Accounting	Accounting Manager
Administration	Administration Assistant
President	President
Administration	Administration Vice President
Accountant	Accountant
Finance	Finance Manager
Human Resources	Human Resources Representative
Programmer	Programmer
Marketing	Marketing Manager
Marketing	Marketing Representative
Public Relations	Public Relations Representative

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
30	20:34:33	SELECT SUBSTRING_INDEX(job_title, ' ', 1) as First_word f...	19 row(s) returned	0.015 sec / 0.000 sec
31	20:35:26	SELECT SUBSTRING_INDEX(job_title, ' ', 1) as First...	19 row(s) returned	0.000 sec / 0.000 sec
32	20:38:09	SELECT SUBSTRING_INDEX(job_title, ' ', 1) as First...	19 row(s) returned	0.000 sec / 0.000 sec

32) A query to display the length of first name for employees where last name contain character 'c' after 2nd position.

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

```

/*32nd query*/
SELECT first_name, last_name
FROM employees
WHERE last_name like '___c%';

```

The result grid displays the following data:

first_name	last_name
Neena	Kochhar
Peter	Tucker
Samuel	McCa

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
33	22:20:20	SELECT first_name, last_name FROM employees WHERE l...	3 row(s) returned	0.016 sec / 0.000 sec
34	22:23:36	SELECT first_name, last_name FROM employees WHERE ...	4 row(s) returned	0.000 sec / 0.000 sec
35	22:33:25	SELECT first_name, last_name FROM employees WHERE ...	3 row(s) returned	0.032 sec / 0.000 sec



32) A query that displays the first name and the length of the first name for all employees whose name starts with the letters 'A', 'J' or 'M'.

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

```

/*33rd query*/
select first_name as Name,length(first_name) as Length
from employees
where (first_name like 'a%' or first_name like 'j%' or first_name like 'm%') ORDER BY
first_name ASC;

```

The Results tab displays the following data:

Name	Length
Adam	4
Alana	5
Alberto	7
Alexander	9
Alexander	9
Alexis	6
Allan	5
Alyssa	6
Amit	4
Anthony	7
Jack	4
James	5

The Action Output tab shows the execution details:

#	Time	Action	Message	Duration / Fetch
37	22:46:43	select first_name as Name,length(first_name) as Length from...	14 row(s) returned	0.000 sec / 0.000 sec
38	22:47:12	select first_name as Name,length(first_name) as Length from...	29 row(s) returned	0.000 sec / 0.000 sec
39	22:47:24	select first_name as Name,length(first_name) as Length from...	32 row(s) returned	0.000 sec / 0.000 sec

34) A query to display the first name and salary for all employees. Format the salary to be 10 characters long, left-padded with the \$ symbol. Label the column SALARY.

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

```

/*34th query*/
SELECT first_name,Salary,lpad(salary,10,'$') as SALARY
from employees;

```

The Results tab displays the following data:

first_name	Salary	SALARY
Steven	24000.00	\$24000.00
Neena	17000.00	\$17000.00
Lex	17000.00	\$17000.00
Alexander	9000.00	\$9000.00
Bruce	6000.00	\$6000.00
David	4800.00	\$4800.00
Valli	4800.00	\$4800.00
Diana	4200.00	\$4200.00
Nancy	12000.00	\$12000.00

The Action Output tab shows the execution details and error messages:

#	Time	Action	Message	Duration / Fetch
4	23:17:55	SELECT first_name,Salary,CONCAT('\$'+FORMAT(salary, ...	Error Code: 1305. FUNCTION hr.CONCAT does not exist	0.062 sec
5	23:21:33	SELECT first_name,Salary,FORMAT(salary, 10),CONCAT(...	107 row(s) returned	0.000 sec / 0.000 sec
6	23:21:52	SELECT first_name,Salary,FORMAT(salary, 10),CONCAT(...	107 row(s) returned	0.000 sec / 0.000 sec
7	23:22:19	SELECT first_name,Salary,FORMAT(salary, 10),CONCAT(\$...	Error Code: 1054. Unknown column '\$' in field list	0.000 sec
8	23:23:58	SELECT first_name,Salary,lpad(salary,10,'\$') as SALARY fr...	107 row(s) returned	0.000 sec / 0.000 sec

35) A query to display the first eight characters of the employees' first names and indicates the amounts of their salaries with '\$' sign. Each '\$' sign signifies a thousand dollars. Sort the data in descending order of salary.

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

```

/*35th query*/
SELECT left(first_name, 8),
REPEAT('$', FLOOR(salary/1000))
'SALARY($)', salary
FROM employees
ORDER BY salary DESC;

```

The Result Grid displays the following data:

left(first_name, 8)	SALARY(\$)	salary
Steven	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	24000.00
Neena	\$\$\$\$\$\$\$\$\$\$\$\$	17000.00
Lex	\$\$\$\$\$\$\$\$\$\$\$\$	17000.00
John	\$\$\$\$\$\$\$\$	14000.00
Karen	\$\$\$\$\$\$\$\$	13500.00
Michael	\$\$\$\$\$\$\$\$	13000.00
Nancy	\$\$\$\$\$\$\$\$	12000.00
Alberto	\$\$\$\$\$\$\$\$	12000.00
Shelley	\$\$\$\$\$\$\$\$	12000.00
Lisa	\$\$\$\$\$\$\$\$	11500.00

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
7	23.22.19	SELECT first_name,Salary,FORMAT(salary, 10),CONCAT(\$...	Error Code: 1054. Unknown column '\$' in field list	0.000 sec / 0.000 sec
8	23.23.58	SELECT first_name,Salary,lpad(salary,10,\$) as SALARY fr...	107 row(s) returned	0.000 sec / 0.000 sec
9	23.46.46	SELECT left(first_name, 8), REPEAT('\$', FLOOR(salary/10...	107 row(s) returned	0.062 sec / 0.000 sec

36) A query to display the employees with their code, first name, last name and hire date who hired either on seventh day of any month or seventh month in any year.

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

```

/*36th query*/
SELECT employee_id,first_name,last_name,hire_date
FROM employees
WHERE POSITION("07" IN DATE_FORMAT(hire_date, '%d %m %Y'))>0;

```

The Result Grid displays the following data:

employee_id	first_name	last_name	hire_date
107	Diana	Lorentz	1999-02-07
112	Jose Manuel	Urman	1998-03-07
113	Luis	Popp	1999-12-07
114	Den	Raphaely	1994-12-07
117	Sigal	Tobias	1997-07-24
120	Matthew	Weiss	1996-07-18
125	Julia	Nayer	1997-07-16
137	Renske	Ladwig	1995-07-14
144	Peter	Vargas	1998-07-09
187	Anthony	Cabrio	1999-02-07
190	Timothy	Gates	1998-07-11

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
8	23.23.58	SELECT first_name,Salary,lpad(salary,10,\$) as SALARY fr...	107 row(s) returned	0.000 sec / 0.000 sec
9	23.46.46	SELECT left(first_name, 8), REPEAT('\$', FLOOR(salary/10...	107 row(s) returned	0.062 sec / 0.000 sec
10	23.55.24	SELECT employee_id,first_name,last_name,hire_date FRO...	16 row(s) returned	0.078 sec / 0.000 sec

## NORTHWIND DATABASE QUERIES

1) A query to get Product name and quantity/unit.

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' list with 'test\_northwind' selected. The main editor window contains the following SQL query:

```

/*1st Query*/
select ProductName,QuantityPerUnit
from products;

```

The 'Result Grid' shows the output of the query, displaying columns 'ProductName' and 'QuantityPerUnit' for various products. The 'Output' pane at the bottom shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
2	11:02:01	show tables	8 row(s) returned	0.000 sec / 0.000 sec
3	11:08:30	select * from products	77 row(s) returned	0.250 sec / 0.000 sec
4	11:13:09	select ProductName,QuantityPerUnit from products	77 row(s) returned	0.000 sec / 0.000 sec

2) A query to get current Product list (Product ID and name).

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' list with 'superstores' selected. The main editor window contains the following SQL query:

```

/*2nd Query*/
select ProductID,ProductName
from products
where Discontinued=0;

```

The 'Result Grid' shows the output of the query, displaying columns 'ProductID' and 'ProductName' for products where 'Discontinued' is 0. The 'Output' pane at the bottom shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
41	12:22:45	select ProductID,ProductName from products where Discontinued=0	Error Code: 1054. Unknown column 'Discontinued' in 'where clause'	0.016 sec
42	12:35:00	select * from products	77 row(s) returned	0.000 sec / 0.000 sec
43	12:35:30	select ProductID,ProductName from products where Discontinued=0	59 row(s) returned	0.000 sec / 0.000 sec

3) A query to get discontinued Product list (Product ID and name).

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

```

/*3rd query*/
select ProductID, ProductName
from products
where Discontinued=1;

```

The result grid displays the following data:

ProductID	ProductName
5	Chef Anton's Gumbo Mix
9	Mishi Kobe Niku
17	Alice Mutton
24	Guaraná Fantástica
28	Rössle Sauerkraut
29	Thüringer Rostbratwurst
42	Singaporean Hokkien Fried Mee
53	Perth Pasties

The output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
42	12:35:00	select * from products	77 row(s) returned	0.000 sec / 0.000 sec
43	12:35:30	select ProductID, ProductName from products where Discontinued=0	69 row(s) returned	0.000 sec / 0.000 sec
44	12:44:22	select ProductID, ProductName from products where Discontinued=1	8 row(s) returned	0.000 sec / 0.000 sec

4) A query to get most expensive and least expensive Product list (name and unit price).

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

```

/*4th Query*/
SELECT ProductName, UnitPrice
FROM Products
ORDER BY UnitPrice DESC;

```

The result grid displays the following data:

ProductName	UnitPrice
Côte de Blaye	263.5000
Thüringer Rostbratwurst	123.7900
Mishi Kobe Niku	97.0000
Sir Rodney's Marmalade	81.0000
Carnarvon Tigers	62.5000
Radette Courdevault	55.0000
Manjimup Dried Apples	53.0000
Tarte au sucre	49.3000
Ispoh Coffee	46.0000
Rössle Sauerkraut	45.6000
Schoggi Schokolade	43.9000
Vegie-spread	43.9000

The output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
47	12:54:45	Select * from products	77 row(s) returned	0.000 sec / 0.000 sec
48	12:55:16	select productname, max(UnitPrice), Min(UnitPrice) From Products	1 row(s) returned	0.015 sec / 0.000 sec
49	12:57:18	SELECT ProductName, UnitPrice FROM Products ORDER BY UnitPrice DESC	77 row(s) returned	0.016 sec / 0.000 sec

- 5) A query to get Product list (id, name, unit price) where current products cost less than \$20.

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

```

/*5th query*/
select productID,ProductName,UnitPrice
from products
where discontinued =0 and UnitPrice<20;

```

The Result Grid displays the following data:

productID	ProductName	UnitPrice
1	Chai	18.0000
2	Chang	19.0000
3	Aniseed Syrup	10.0000
13	Konbu	6.0000
15	Genen Shouyu	15.5000
16	Pavlova	17.4500
19	Teatime Chocolate Biscuits	9.2000
21	Sir Rodney's Scones	10.0000
23	Turnbröd	9.0000
25	NuhCa Nuß-Hougat-Creme	14.0000
31	Gorgonzola Telino	12.5000
33	Geitost	2.5000

The Action Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
50	13:04:35	Select * from products	77 row(s) returned	0.016 sec / 0.000 sec
51	13:07:52	select productID,ProductName,UnitPrice from products where discontinued =0 and UnitPrice<20	37 row(s) returned	0.000 sec / 0.000 sec
52	13:10:00	select productID,ProductName,UnitPrice from products where discontinued =0 and UnitPrice<20	37 row(s) returned	0.000 sec / 0.000 sec

- 6) A query to get Product list (id, name, unit price) where products cost between \$15 and \$25

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

```

/*6th query*/
select productID,ProductName,UnitPrice
from products
where UnitPrice between 15 and 25 ;

```

The Result Grid displays the following data:

productID	ProductName	UnitPrice
1	Chai	18.0000
2	Chang	19.0000
4	Chef Anton's Cajun Seasoning	22.0000
5	Chef Anton's Gumbo Mix	21.3500
6	Grandma's Boysenberry Spread	25.0000
11	Queso Cabrales	21.0000
14	Tofu	23.2500
15	Genen Shouyu	15.5000
16	Pavlova	17.4500
22	Gustaf's Knäckebröd	21.0000
35	Steeleye Stout	18.0000
36	Inlagd Sill	19.0000

The Action Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
51	13:07:52	select productID,ProductName,UnitPrice from products where discontinued =0 and UnitPrice<20	37 row(s) returned	0.000 sec / 0.000 sec
52	13:10:00	select productID,ProductName,UnitPrice from products where discontinued =0 and UnitPrice<20	37 row(s) returned	0.000 sec / 0.000 sec
53	13:13:35	select productID,ProductName,UnitPrice from products where UnitPrice between 15 and 25	25 row(s) returned	0.015 sec / 0.000 sec

7) A query to get Product list (name, unit price) of above average price.

The screenshot shows MySQL Workbench with a query window titled '1st\_northwind'. The query is as follows:

```

36 /*7th query*/
37 select ProductName,UnitPrice
38 from products
39 where UnitPrice>(select avg(UnitPrice)from products)
40 order by UnitPrice;

```

The 'Result Grid' displays the following data:

ProductName	UnitPrice
Ikura	31.0000
Gumbär Gummibärchen	31.2300
Mascarpone Fabiola	32.0000
Perth Pasties	32.8000
Wimmers gute Semmelknödel	33.2500
Camembert Pierrot	34.0000
Mozzarella di Giovanni	34.8000
Gudbrandsdalsost	36.0000
Queso Manchego La Pastora	38.0000
Gnocchi di nonna Alice	38.0000
Alice Mutton	39.0000
Northwoods Cranberry Sauce	40.0000

The 'Output' window shows the execution results:

#	Time	Action	Message	Duration / Fetch
58	13.21.45	select ProductName,UnitPrice from products group by UnitPrice Having UnitPrice>avg(UnitPrice)	0 row(s) returned	0.000 sec / 0.000 sec
59	13.25.09	select ProductName,UnitPrice from products where UnitPrice>select avg(UnitPrice)from products	23 row(s) returned	0.015 sec / 0.000 sec
60	13.26.28	select ProductName,UnitPrice from products where UnitPrice>select avg(UnitPrice)from products	25 row(s) returned	0.016 sec / 0.000 sec

8) A query to get Product list (name, unit price) of ten most expensive products.

The screenshot shows MySQL Workbench with a query window titled '1st\_northwind'. The query is as follows:

```

42 /*8th query*/
43 select ProductName'Top_10',UnitPrice
44 From Products
45 order by UnitPrice DESC Limit 10;
46

```

The 'Result Grid' displays the following data:

Top_10	UnitPrice
Côte de Blaye	263.5000
Thüringer Rostbratwurst	123.7900
Mishi Kobe Niku	97.0000
Sir Rodney's Marmalade	81.0000
Camaron de Tigers	62.5000
Radette Courdavault	55.0000
Manjimup Dried Apples	53.0000
Tarte au sucre	49.3000
Ippoh Coffee	46.0000
Rössle Sauerkraut	45.6000

The 'Output' window shows the execution results:

#	Time	Action	Message	Duration / Fetch
63	13.33.38	SELECT TOP(10) productName,UnitPrice FROM Products	Error Code: 1305. FUNCTION test_northwind.TOP does not exist	0.078 sec
64	13.36.34	select ProductName,UnitPrice,Top_10 From Products order by UnitPrice DESC Limit 10	10 row(s) returned	0.015 sec / 0.000 sec
65	13.37.06	select ProductName'Top_10',UnitPrice From Products order by UnitPrice DESC Limit 10	10 row(s) returned	0.000 sec / 0.000 sec

9) A query to count current and discontinued products.

The screenshot shows MySQL Workbench with a query editor containing the following SQL code:

```

/*9th Query*/
select count(ProductName)
from products
group by discontinued;

```

The result grid shows the following data:

count(ProductName)
69
8

The Action Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
73	13:47:48	Select productname from products group by discontinued having discontinued=1 and discontin...	0 row(s) returned	0.000 sec / 0.000 sec
74	13:49:02	Select count(ProductName) from products group by discontinued	Error Code: 1054. Unknown column 'ProuctName' in field list'	0.000 sec
75	13:49:18	Select count(ProductName) from products group by discontinued	2 row(s) returned	0.000 sec / 0.000 sec

10) A query to get Product list (name, units on order , units in stock) of stock is less than the quantity on order.

The screenshot shows MySQL Workbench with a query editor containing the following SQL code:

```

/*10th query*/
select ProductName,unitsONOrder,UnitsInStock
from products
where UnitsInStock<UnitsOnOrder;

```

The result grid shows the following data:

ProductName	unitsONOrder	UnitsInStock
Sir Rodney's Scones	40	3
Gorgonzola Telino	70	0
Mascarpone Fabioli	40	9
Gravad lax	50	11
Rapede sild	70	5
Chocolade	70	15
Maviakku	60	10
Wimmers gute Sem...	80	22
Louisiana Hot Spice...	100	4
Scottish Longbreads	10	6
Longlife Tofu	20	4

The Action Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
75	13:49:18	Select count(ProductName) from products group by discontinued	2 row(s) returned	0.000 sec / 0.000 sec
76	13:53:54	select * from products	77 row(s) returned	0.000 sec / 0.000 sec
77	13:56:13	select ProductName,unitsONOrder,UnitsInStock from products where UnitsInStock<UnitsOnOrder	14 row(s) returned	0.016 sec / 0.000 sec