

SQL Class 1 Task iNeuron

Queries:

```
select * from bank_details;
```

//1. With this data try to find out sum of balance.

```
select SUM(balance) from bank_details
```

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'ineuron_fsda' expanded, showing 'Tables' and 'Columns'. The 'Columns' list for 'bank_details' includes: age, job, marital, education, default, balance, housing, loan, contact, day, month, duration, and campaign. The main editor window shows a SQL script with the following lines:

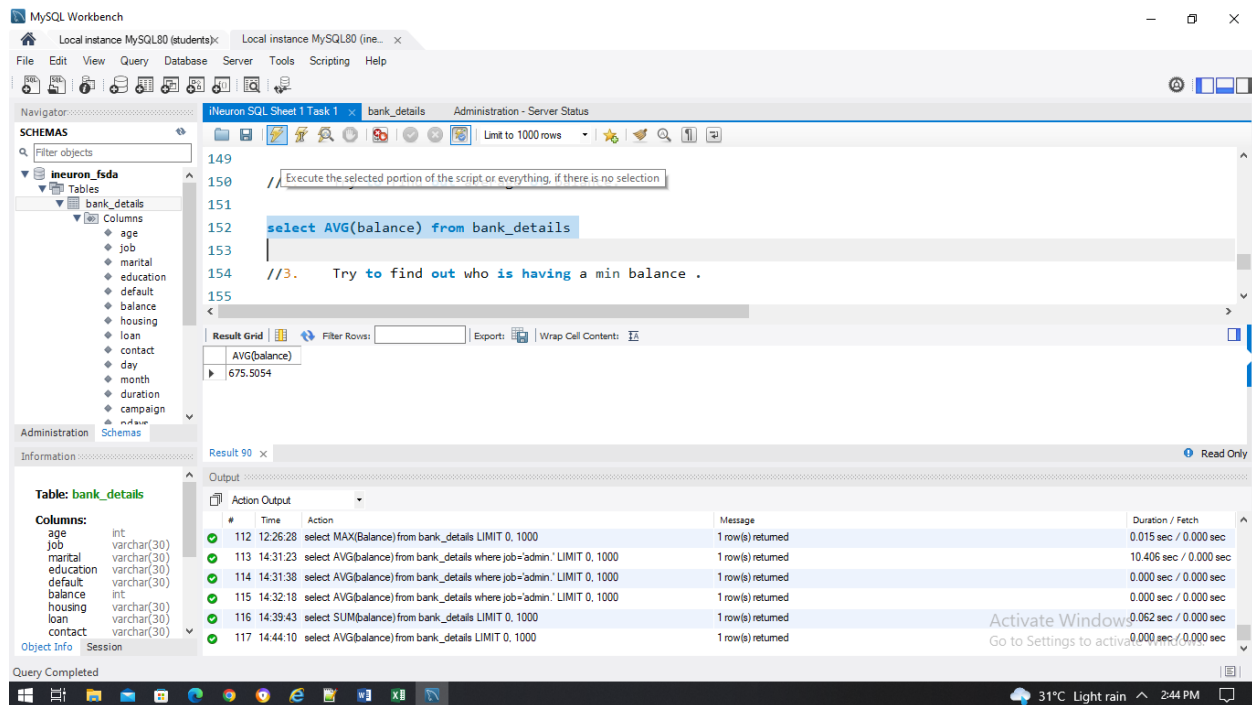
```
143
144 select * from bank_details;
145
146 //1. With this data try to find out sum of balance.
147
148 select SUM(balance) from bank_details
149
```

The 'Result Grid' shows a single row with the value 62822 for the SUM(balance) query. The 'Output' pane at the bottom shows a log of actions and messages, including an error message: 'Error Code: 1146: Table 'ineuron_fsda.the' doesn't exist'.

#	Time	Action	Message	Duration / Fetch
111	14:30:41	Select MIN(balance) from the bank_details LIMIT 0, 1000	Error Code: 1146: Table 'ineuron_fsda.the' doesn't exist	0.000 sec
112	12:26:28	select MAX(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec
113	14:31:23	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	10.406 sec / 0.000 sec
114	14:31:38	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
115	14:32:18	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
116	14:39:43	select SUM(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.062 sec / 0.000 sec

//2. Try to find out average of balance.

```
select AVG(balance) from bank_details
```



//3. Try to find out who is having a min balance .

Select MIN(balance) from the bank_details

//4. Try to find out who is having a maximum balance.

select MAX(Balance) from bank_details;

MySQL Workbench

Local instance MySQL80 (students) Local instance MySQL80 (ine... x

File Edit View Query Database Server Tools Scripting Help

Navigator: iNeuron SQL Sheet 1 Task 1 bank_details Administration - Server Status

SCHEMAS

Filter objects

neuron_fsda

Tables

bank_details

Columns

- age
- job
- marital
- education
- default
- balance
- housing
- loan
- contact
- day
- month
- duration
- campaign

Administration Schemas

Information

Table: bank_details

Columns:

- age int
- job varchar(30)
- marital varchar(30)
- education varchar(30)
- default varchar(30)
- balance int
- housing varchar(30)
- loan varchar(30)
- contact varchar(30)

Object Info Session

Query Completed

156 Select MIN(balance) from the bank_details

157

158 //4. Try to find out who is having a maximum balance.

159

160 select MAX(Balance) from bank_details;

161

162 //5. Try to prepare a list of all the person who is having loan. //

Result Grid

MAX(Balance)

12223

Output

Action Output

#	Time	Action	Message	Duration / Fetch
114	14:31:38	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
115	14:32:18	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
116	14:39:43	select SUM(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.062 sec / 0.000 sec
117	14:44:10	select AVG(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
118	14:44:22	Select MIN(balance) from the bank_details LIMIT 0, 1000	Error Code: 1146. Table 'neuron_fsda.the' doesn't exist	2.406 sec
119	14:44:29	select MAX(Balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec

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//5. Try to prepare a list of all the person who is having loan. //

select * from bank_details where loan='Yes';

MySQL Workbench

Local instance MySQL80 (students) Local instance MySQL80 (ine... x

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Navigator: iNeuron SQL Sheet 1 Task 1 bank_details Administration - Server Status

SCHEMAS

Filter objects

neuron_fsda

Tables

bank_details

Columns

- age
- job
- marital
- education
- default
- balance
- housing
- loan
- contact
- day
- month
- duration
- campaign

Administration Schemas

Information

Table: bank_details

Columns:

- age int
- job varchar(30)
- marital varchar(30)
- education varchar(30)
- default varchar(30)
- balance int
- housing varchar(30)
- loan varchar(30)
- contact varchar(30)

Object Info Session

Query Completed

161

162 //5. Try to prepare a list of all the person who is having loan. //

163

164 select * from bank_details where loan='Yes';

165

166 //6. Try to find out average balance for all the people whose job role is admin.

167

Result Grid

	age	job	marital	education	default	balance	housing	loan	contact	day	month	duration	campaign	pdays	previous	poutcome	y
33	entrepreneur	married	secondary	no	2	yes	yes	yes	unknown	5	may	76	1	-1	0	unknown	no
28	management	single	tertiary	no	447	yes	yes	yes	unknown	5	may	217	1	-1	0	unknown	no
28	blue-collar	married	secondary	no	723	yes	yes	yes	unknown	5	may	262	1	-1	0	unknown	no
32	blue-collar	single	primary	no	23	yes	yes	yes	unknown	5	may	160	1	-1	0	unknown	no
40	retired	married	primary	no	0	yes	yes	yes	unknown	5	may	181	1	-1	0	unknown	no

bank_details 92 x

Output

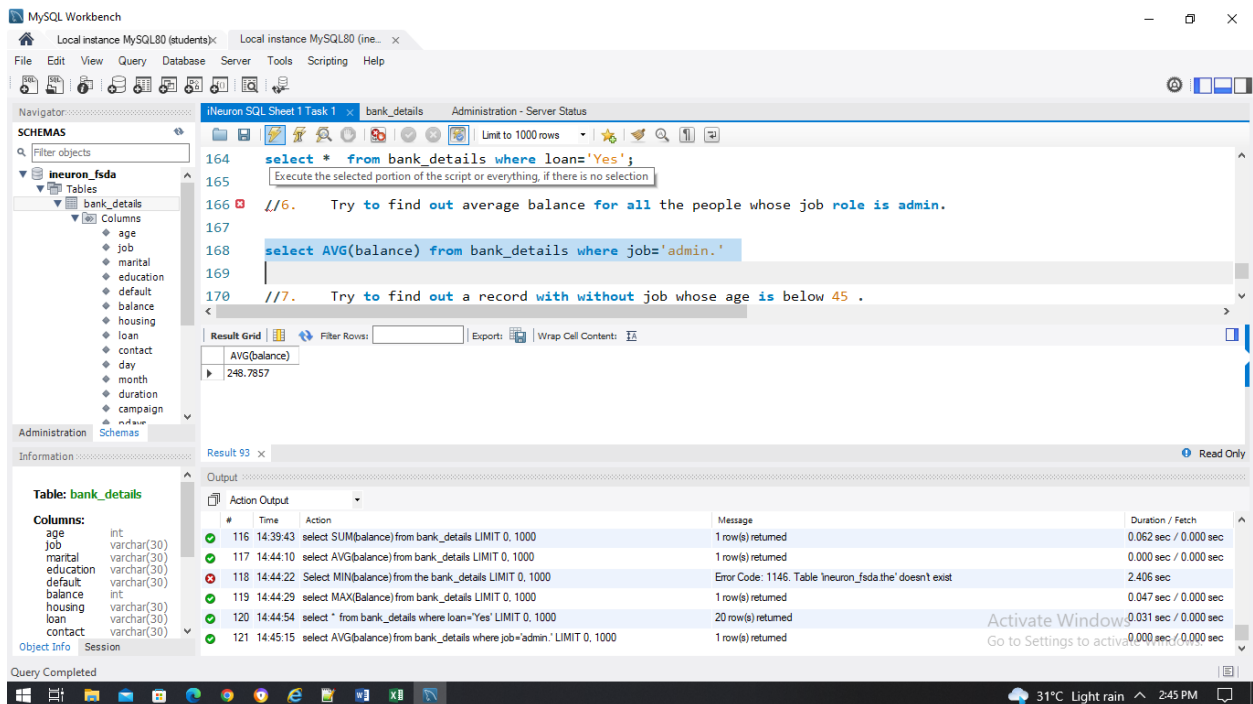
Action Output

#	Time	Action	Message	Duration / Fetch
115	14:32:18	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
116	14:39:43	select SUM(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.062 sec / 0.000 sec
117	14:44:10	select AVG(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
118	14:44:22	Select MIN(balance) from the bank_details LIMIT 0, 1000	Error Code: 1146. Table 'neuron_fsda.the' doesn't exist	2.406 sec
119	14:44:29	select MAX(Balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec
120	14:44:54	select * from bank_details where loan='Yes' LIMIT 0, 1000	20 row(s) returned	0.031 sec / 0.000 sec

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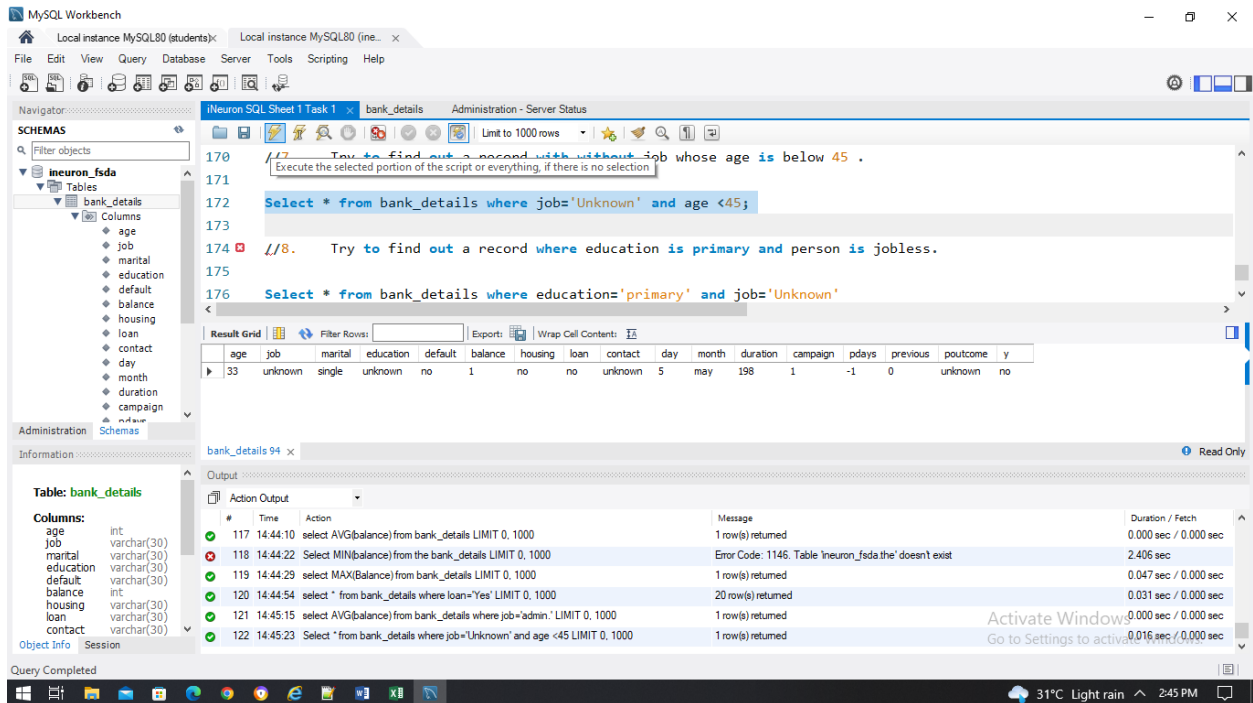
//6. Try to find out average balance for all the people whose job role is admin.

`select AVG(balance) from bank_details where job='admin.'`



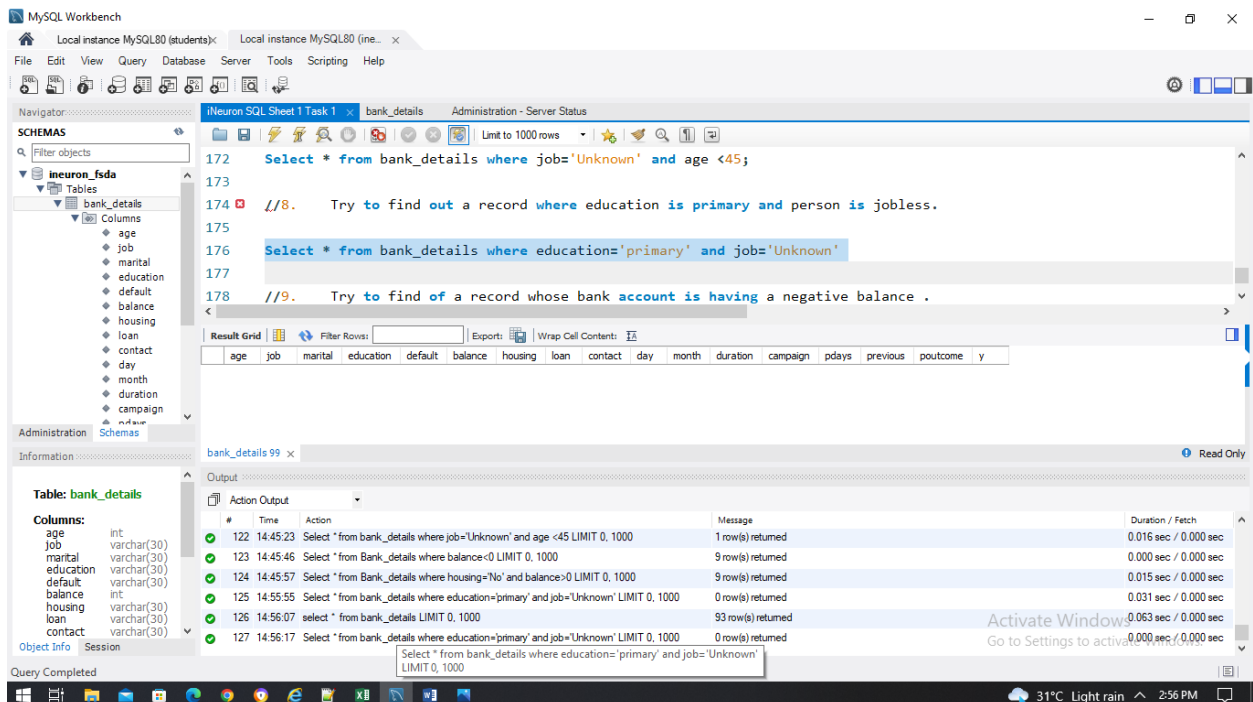
//7. Try to find out a record with without job whose age is below 45 .

`Select * from bank_details where job='Unknown' and age <45;`



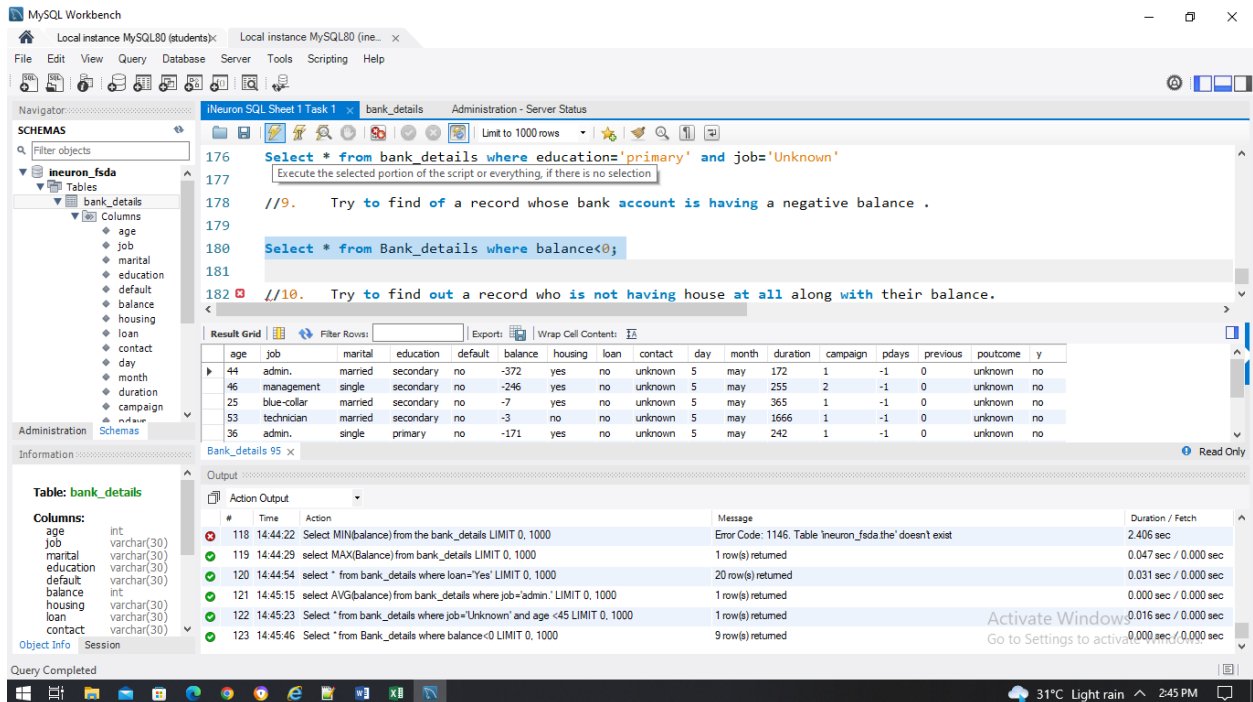
//8. Try to find out a record where education is primary and person is jobless.

Select * from bank_details where education='primary' and job='Unknown'



//9. Try to find of a record whose bank account is having a negative balance .

Select * from Bank_details where balance<0;



MySQL Workbench interface showing a query execution. The query is:

```
Select * from Bank_details where balance<0;
```

The result grid shows 9 rows of data:

age	job	marital	education	default	balance	housing	loan	contact	day	month	duration	campaign	pdays	previous	outcome	y
44	admin.	married	secondary	no	-372	yes	no	unknown	5	may	172	1	-1	0	unknown	no
46	management	single	secondary	no	-246	yes	no	unknown	5	may	255	2	-1	0	unknown	no
25	blue-collar	married	secondary	no	-7	yes	no	unknown	5	may	365	1	-1	0	unknown	no
53	technician	married	secondary	no	-3	no	no	unknown	5	may	1666	1	-1	0	unknown	no
36	admin.	single	primary	no	-171	yes	no	unknown	5	may	242	1	-1	0	unknown	no

The output pane shows the execution log with messages for each query step:

#	Time	Action	Message	Duration / Fetch
118	14:44:22	Select MIN(balance) from the bank_details LIMIT 0, 1000	Error Code: 1146. Table 'neuron_fsda.the' doesn't exist	2.406 sec
119	14:44:29	select MAX(balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec
120	14:44:54	select * from bank_details where loan='Yes' LIMIT 0, 1000	20 row(s) returned	0.031 sec / 0.000 sec
121	14:45:15	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
122	14:45:23	Select * from bank_details where job='Unknown' and age <45 LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec
123	14:45:46	Select * from Bank_details where balance<0 LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

//10. Try to find out a record who is not having house at all along with their balance.

Select * from Bank_details where housing='No' and balance>0;

MySQL Workbench

Local instance MySQL80 (studenta) Local instance MySQL80 (ine... x

File Edit View Query Database Server Tools Scripting Help

Navigation: iNeuron SQL Sheet 1 Task 1 x bank_details Administration - Server Status

SCHEMAS

Filter objects

neuron_fsda

Tables

bank_details

Columns

- age
- job
- marital
- education
- default
- balance
- housing
- loan
- contact
- day
- month
- duration
- campaign
- pdays
- previous
- outcome
- y

Administration Schemas

Information: bank_details x

Table: bank_details

Columns:

- age int
- job varchar(30)
- marital varchar(30)
- education varchar(30)
- default varchar(30)
- balance int
- housing varchar(30)
- loan varchar(30)
- contact varchar(30)

Object Info Session

Query Completed

179

180 Execute the selected portion of the script or everything, if there is no selection

181

182 //10. Try to find out a record who is not having house at all along with their balance.

183

184 Select * from Bank_details where housing='No' and balance>0;

Result Grid

Filter Rows: Exports: Wrap Cell Contents

	age	job	marital	education	default	balance	housing	loan	contact	day	month	duration	campaign	pdays	previous	outcome	y
33	unknown	single	unknown	no	1	no	no	unknown	5	may	198	1	-1	0	unknown	no	
57	technician	married	secondary	no	839	no	yes	unknown	5	may	225	1	-1	0	unknown	no	
38	entrepreneur	single	tertiary	no	243	no	yes	unknown	5	may	174	1	-1	0	unknown	no	
60	retired	married	tertiary	no	100	no	no	unknown	5	may	528	1	-1	0	unknown	no	
44	blue-collar	married	secondary	no	582	no	yes	unknown	5	may	211	1	-1	0	unknown	no	

Bank_details 96 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
119	14:44:29	select MAX(Balance) from bank_details LIMIT 0, 1000	1 row(s) returned	0.047 sec / 0.000 sec
120	14:44:54	select * from bank_details where loan='Yes' LIMIT 0, 1000	20 row(s) returned	0.031 sec / 0.000 sec
121	14:45:15	select AVG(balance) from bank_details where job='admin.' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
122	14:45:23	Select * from bank_details where job='Unknown' and age <45 LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec
123	14:45:46	Select * from Bank_details where balance<0 LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
124	14:45:57	Select * from Bank_details where housing='No' and balance>0 LIMIT 0, 1000	9 row(s) returned	0.015 sec / 0.000 sec

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