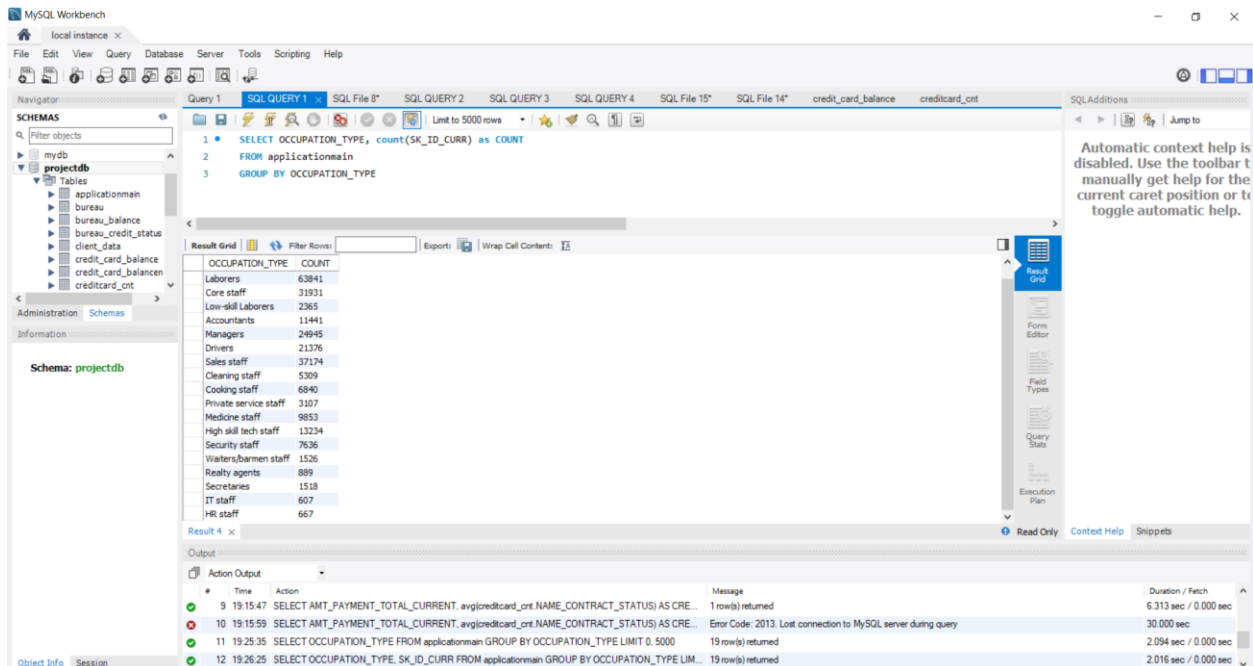


SQL QUERIES

SQL QUERY 1:



Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

OCCUPATION_TYPE	COUNT
Laborers	63841
Core staff	31931
Low-skill Laborers	2965
Accountants	11441
Managers	24945
Drivers	21376
Sales staff	37174
Cleaning staff	5309
Cooking staff	6840
Private service staff	3107
Medicine staff	9853
High skill tech staff	13234
Security staff	7636
Walters/barmen staff	1526
Realty agents	889
Secretaries	1518
IT staff	607
HR staff	667

Result 4 x

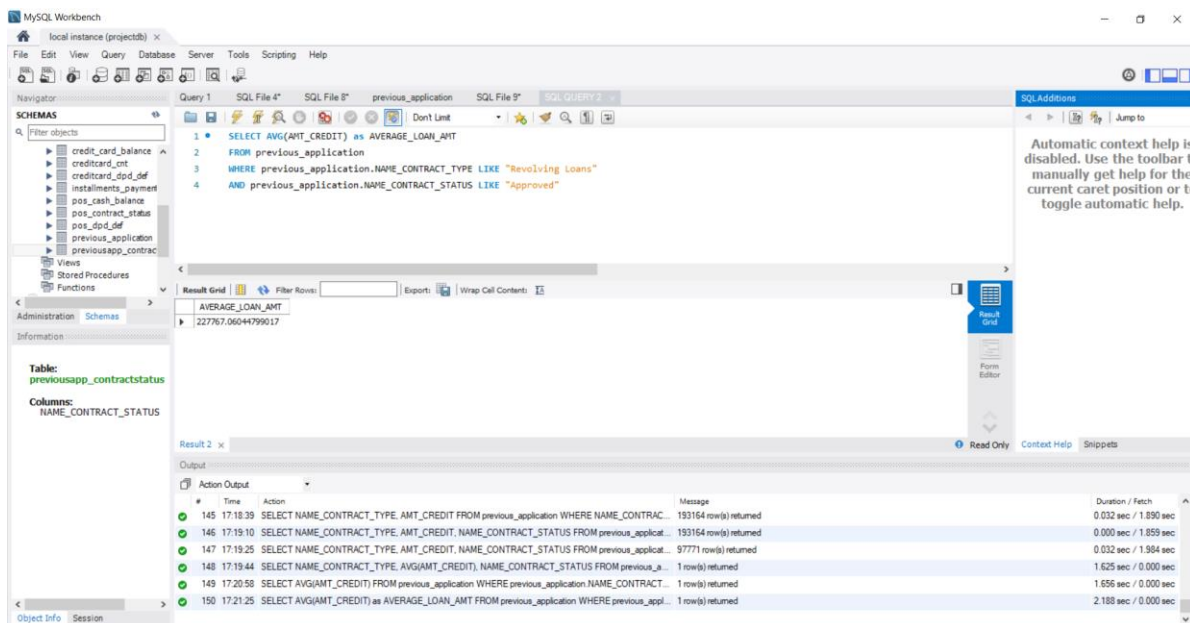
Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	19:15:47	SELECT AMT_PAYMENT_TOTAL_CURRENT, avg(creditcard_cnt NAME_CONTRACT_STATUS) AS CRE...	1 row(s) returned	6.313 sec / 0.000 sec
10	19:15:59	SELECT AMT_PAYMENT_TOTAL_CURRENT, avg(creditcard_cnt NAME_CONTRACT_STATUS) AS CRE...	Error Code: 2013 Lost connection to MySQL server during query	30.000 sec
11	19:25:35	SELECT OCCUPATION_TYPE FROM applicationmain GROUP BY OCCUPATION_TYPE LIMIT 0.5000	19 row(s) returned	2.094 sec / 0.000 sec
12	19:26:25	SELECT OCCUPATION_TYPE, SK_ID_CURR FROM applicationmain GROUP BY OCCUPATION_TYPE LIM...	19 row(s) returned	2.016 sec / 0.000 sec

From the occupation type, the highest number of loans approved are for Laborers which are 63841 and the least number of loans approved are for IT Staff which are 607.

SQL QUERY 2:



Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

AVERAGE_LOAN_AMT
227767.06044799017

Result 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
145	17:18:39	SELECT NAME_CONTRACT_TYPE, AMT_CREDIT FROM previous_application WHERE NAME_CONTRACT...	193164 row(s) returned	0.032 sec / 1.890 sec
146	17:19:10	SELECT NAME_CONTRACT_TYPE, AMT_CREDIT, NAME_CONTRACT_STATUS FROM previous_applica...	193164 row(s) returned	0.000 sec / 1.859 sec
147	17:19:25	SELECT NAME_CONTRACT_TYPE, AMT_CREDIT, NAME_CONTRACT_STATUS FROM previous_applica...	97771 row(s) returned	0.032 sec / 1.904 sec
148	17:19:44	SELECT NAME_CONTRACT_TYPE, AVG(AMT_CREDIT), NAME_CONTRACT_STATUS FROM previous_a...	1 row(s) returned	1.625 sec / 0.000 sec
149	17:20:58	SELECT AVG(AMT_CREDIT) FROM previous_application WHERE previous_application NAME_CONTRACT...	1 row(s) returned	1.655 sec / 0.000 sec
150	17:21:25	SELECT AVG(AMT_CREDIT) as AVERAGE_LOAN_AMT FROM previous_application WHERE previous_app...	1 row(s) returned	2.188 sec / 0.000 sec

The above code is done using previous_application. Average loan amount is 227767.0604.

SQL QUERY 3:

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

```
1 SELECT NAME_EDUCATION_TYPE, NAME_CONTRACT_TYPE, count(NAME_CONTRACT_TYPE) AS CASH_OR_REVOLVING
2 FROM applicationmain
3 WHERE NAME_EDUCATION_TYPE LIKE "Higher Education"
4 GROUP BY NAME_CONTRACT_TYPE
```

The result grid displays the following data:

NAME_EDUCATION_TYPE	NAME_CONTRACT_TYPE	CASH_OR_REVOLVING
Higher education	Cash loans	77651
Higher education	Revolving loans	9728

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

```
163 17:34:27 SELECT NAME_EDUCATION_TYPE, count(NAME_CONTRACT_TYPE) FROM applicationmain WHERE NA... 1 row(s) returned
164 17:35:07 SELECT NAME_EDUCATION_TYPE, count(NAME_CONTRACT_TYPE), count(NAME_CONTRACT_TYPE) ... 1 row(s) returned
165 17:35:21 SELECT NAME_EDUCATION_TYPE, count(NAME_CONTRACT_TYPE) FROM applicationmain WHERE NA... 1 row(s) returned
166 17:38:24 SELECT NAME_EDUCATION_TYPE, count(NAME_CONTRACT_TYPE) FROM applicationmain WHERE NA... 2 row(s) returned
167 17:38:51 SELECT NAME_EDUCATION_TYPE, count(NAME_CONTRACT_TYPE) AS CASH_OR_REVOLVING FROM ... 2 row(s) returned
168 17:39:18 SELECT NAME_EDUCATION_TYPE, NAME_CONTRACT_TYPE, count(NAME_CONTRACT_TYPE) AS CA... 2 row(s) returned
```

No, the applicants who has higher education applied more for cash loans rather than revolving loans. As, the number of applicants who have higher education and applied for cash loans are 77651 and the number of applicants who have higher education and applied for revolving loans are 9728.

SQL QUERY 4:

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

```
1 SELECT NAME_CONTRACT_STATUS, AVG(AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100)
2 FROM credit_card_balancenew
3 WHERE NAME_CONTRACT_STATUS = "Active"
```

The result grid displays the following data:

NAME_CONTRACT_STATUS	AVG(AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL)
Active	38.41329681806962

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

```
74 23:51:26 SELECT AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100 as HI, NAME_CONTRACT_STATUS FROM ... 1 row(s) returned
75 23:55:12 SELECT AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100 as AVG_CREDIT_PERCENT, NAME_CONT... 1 row(s) returned
76 23:56:15 SELECT NAME_CONTRACT_STATUS, AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100 as AVG_CR... 1 row(s) returned
77 23:56:37 SELECT NAME_CONTRACT_STATUS, AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100 as AVG_CR... 3698436 row(s) returned
78 23:59:21 SELECT NAME_CONTRACT_STATUS, AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100 as AVG_CR... 1 row(s) returned
79 23:59:46 SELECT NAME_CONTRACT_STATUS, AVG(AMT_BALANCE/AMT_CREDIT_LIMIT_ACTUAL*100) FROM ... 1 row(s) returned
```

The average credit utilization percentage for active(unpaid) loan applicants is 38.4133.

SQL QUERY 5:

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

```
1 select NAME_EDUCATION_TYPE
2 from (Select NAME_EDUCATION_TYPE , ant_credit-ant_annuity as UC from applicationmain
3 group by NAME_EDUCATION_TYPE
4 order by UC desc) B
5 limit 1;
```

The Results tab shows the following data:

NAME_EDUCATION_TYPE
Academic degree

The Output tab shows the following log entries:

#	Time	Action	Message	Duration / Fetch
111	00:22:11	SELECT previous_application_SK_ID_CURR, applicationmain.SK_ID_CURR, count(previous_application SK...	Error Code: 2013. Lost connection to MySQL server during query	30.000 sec
112	00:24:24	SELECT NAME_EDUCATION_TYPE, COUNT(SK_ID_CURR) FROM applicationmain GROUP BY NAME_E...	5 row(s) returned	10.250 sec / 0.000 sec
113	00:25:01	SELECT NAME_EDUCATION_TYPE, COUNT(SK_ID_CURR) AS HI FROM applicationmain GROUP BY NA...	5 row(s) returned	11.500 sec / 0.000 sec
114	00:26:13	SELECT NAME_EDUCATION_TYPE, COUNT(SK_ID_CURR) AS HI, AVG(SK_ID_CURR), MAX(SK_ID_CU...	5 row(s) returned	11.312 sec / 0.000 sec
115	00:42:47	SELECT NAME_EDUCATION_TYPE, COUNT(SK_ID_CURR) AS TOTAL, AVG(SK_ID_CURR), MAX(SK_ID...	5 row(s) returned	17.078 sec / 0.000 sec
116	00:51:46	select NAME_EDUCATION_TYPE from (Select NAME_EDUCATION_TYPE , ant_credit-ant_annuity as UC f...	1 row(s) returned	10.906 sec / 0.000 sec

The Applicant of which education type had the highest average unused credit is Academic Degree