



Peer-graded Assignment: Peer Review: Peer Reviewed Assignment

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DBA Project

Submitted on July 16, 2024

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PROMPT

Task 1.1: Submit the screenshot for the task – Find the settings in PostgreSQL. **(1pt)**

Upload the **max-connections.jpg** (or .png) file for your peers to review.

max connections

```
13 #port = 5432 # (change requires restart)
14 #max_connections = 100 # (change requires restart)
15 #superuser_reserved_connections = 3 # (change requires restart)
16 #unix_socket_directories = '/var/run/postgresql' # comma-separated list of directories
17 # # (change requires restart)
18 #unix_socket_group = '' # (change requires restart)
```

RUBRIC

Did the learner identify the maximum number of connections allowed for the postgres server on the lab?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

TIP:

If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

- ☒ **1 point**
Correct. The learner has identified the "max_connections" setting in the configuration file. The setting and its value are clearly visible in the screenshot.
- ☐ **0 points**
Incorrect. The learner did not submit the screenshot, or the "max_connections" setting is not visible in the screenshot.

IN

PROMPT

Task 1.2: Submit the screenshot for the task – Create a User. **(1pt)**

Upload the **create-user.jpg** (or .png) file for your peers to review.

create users

RUBRIC

Did the learner create a user named "backup_operator"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

```
postgres=# CREATE USER backup_operator WITH PASSWORD '123';
CREATE ROLE
postgres=#
```

1 point

IN

Correct. The learner has correctly used the "CREATE USER" command and specified the user name correctly and mentioned a valid password.

0 points

Incorrect. The learner did not submit the screenshot, or the "CREATE USER" command was used incorrectly.

PROMPT

Task 1.3: Submit the screenshot for the task – Create a Role. (1pt)

Upload the **create-role.jpg** (or .png) file for your peers to review.

create role

```
postgres=# CREATE USER backup_operator WITH PASSWORD '123';
CREATE ROLE
postgres=# CREATE ROLE backup;
CREATE ROLE
```

RUBRIC

Did the learner create a role named "backup"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

1 point

IN

Correct. The learner has correctly used the "CREATE ROLE" command and specified the role name as "backup".

0 points

Incorrect. The learner did not submit the screenshot, or the "CREATE ROLE" command was not used correctly.

PROMPT

Task 1.4: Submit the screenshot for the task – Grant privileges to the role. (2pts)

Upload the **grant-privs-to-role.jpg** (or .png) file for your peers to review.

grant-privs-to-role

```
postgres=# GRANT CONNECT ON DATABASE tolldata to backup;
GRANT
postgres=# \c tolldata;
psql (14.5 (Ubuntu 14.5-1.pgdg18.04+1), server 13.2)
You are now connected to database "tolldata" as user "postgres".
tolldata=# GRANT SELECT ON ALL TABLES IN SCHEMA toll TO backup;
GRANT
```

RUBRIC

Did the learner correctly grant the mentioned privileges to the backup role?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

2 points

IN

Correct. The learner has correctly performed both the tasks below.

- Used the GRANT CONNECT statement and specified database as "tolldata" and role as backup.
- Used the GRANT SELECT statement and specified schema as "toll" and role as backup.

1 point

Partially Correct. The learner has correctly performed at least one of the two tasks below.

- Used the GRANT CONNECT statement and specified database as "tolldata" and role

as backup.

- Used the GRANT SELECT statement and specified schema as "toll" and role as backup.

- 0 points
Incorrect. The learner did not submit the screenshot or did not perform any of the tasks.

PROMPT

Task 1.5: Submit the screenshot for the task – Grant role to a user. **(1pt)**

Upload the **grant-role.jpg** (or .png) file for your peers to review.

grant role

```
postgres=# CREATE USER backup_operator WITH PASSWORD '123';
CREATE ROLE
postgres=# CREATE ROLE backup;
CREATE ROLE
```

RUBRIC

Did the learner correctly grant the role "backup" to "backup_operator"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

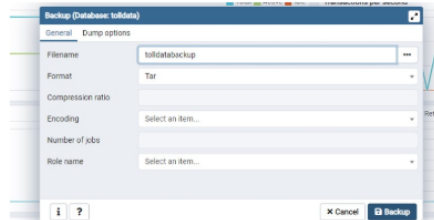
- 1 point IN
Correct. The learner has correctly used the "GRANT" command and specified the role name as "backup" and user name as "backup_operator".
- 0 points
Incorrect. The learner did not submit the screenshot, or the "GRANT" command was not used correctly.

PROMPT

Task 1.6: Submit the screenshot for the task – Backup a database on PostgreSQL server. **(1pt)**

Upload the **backup-database.jpg** (or .png) file for your peers to review.

backup-database



RUBRIC

Did the learner correctly backup the database "tolldata" using PGADMIN GUI?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- 1 point IN
Correct. The screenshot clearly shows the backup window with filename mentioned as "tolldatabackup.tar" and format mentioned as "Tar".
- 0 points
Incorrect. The learner did not submit the screenshot, or only one of the filename or format is mentioned correctly.

PROMPT

Task 2.1: Submit the screenshot for the task – Restore MySQL server using a previous backup. **(1pt)**

RUBRIC

Did the learner successfully restore data from a previous backup?

Review the screenshot uploaded by the learner

Upload the **database-restore.jpg** (or .png) file for your peers to review.

database-restore
Records: 132000 Duplicates: 0

```
mysql> SHOW TABLES;
+-----+
| Tables_in_billing |
+-----+
| billdata          |
+-----+
1 row in set (0.00 sec)
```

review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point**
Correct. The screenshot shows a table named "billdata".
- ☐ 0 points
Incorrect. The learner did not submit the screenshot, or the table named "billdata" is not present.

IN

PROMPT

Task 2.2: Submit the screenshot for the task – Find the data table size. (1pt)

Upload the **table-data-size.jpg** (or .png) file for your peers to review.

table data size

```
mysql> SELECT TABLE_NAME, DATA_LENGTH FROM information_schema.TABLES WHERE TABLE_SCHEMA = "billing";
+-----+-----+
| TABLE_NAME | DATA_LENGTH |
+-----+-----+
| billdata    | 6832128     |
+-----+-----+
1 row in set (0.00 sec)
```

RUBRIC

Did the learner identify the size of the "billdata" table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point**
Correct. The screenshot shows the size of the table "billdata" as 6832128 (bytes).
- ☐ 0 points
Incorrect. The learner did not submit the screenshot, or the size of the table "billdata" is not visible in the screenshot.

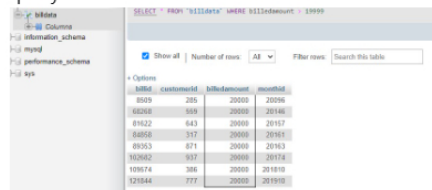
IN

PROMPT

Task 2.3: Submit the screenshot for the task – Baseline query performance. (1pt)

Upload the **query-baseline.jpg** (or .png) file for your peers to review.

query baseline



The screenshot shows a MySQL query: `SELECT * FROM "billdata" WHERE billedamount > 19999`. The output table has 8 rows and 4 columns: `id`, `customerid`, `billedamount`, and `monthid`. The data is as follows:

id	customerid	billedamount	monthid
8009	205	20000	20099
80268	349	20000	20146
81622	643	20000	20127
84956	317	20000	20146
88363	671	20000	20163
90262	937	20000	20174
106574	306	20000	201810
120544	777	20000	201908

RUBRIC

Did the learner correctly write a query to select all rows with a billedamount > 19999 in table "billdata"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

Take a note of the query run time from this screenshot as you will refer back to it later in the peer review.

- ☒ **1 point**
Correct. The screenshot shows a correct select statement with 8 rows of output and the query run time.
- ☐ 0 points
Incorrect. The learner did not submit the screenshot, or the query is wrong or does not show 8 rows of output and the query run time.

IN

PROMPT

Task 2.4: Submit the screenshot for the task –

RUBRIC

Did the learner create the index correctly?

Create an index. (1pt)

Upload the **index-creation.jpg** (or .png) file for your peers to review.

index creation

```
mysql> CREATE INDEX billedamount ON billdata(billedamount);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

☒ 1 point

IN

Correct. The learner has correctly used the "CREATE INDEX" statement and mentioned the index name as "billedamount", table name as "billdata" and column name as "billedamount".

☐ 0 points

Incorrect. The learner did not submit the screenshot, or the "CREATE INDEX" statement is not correct.

PROMPT

Task 2.5: Submit the screenshot for the task – Document the improvement in query performance. (1pt)

Upload the **query-indexed.jpg** (or .png) file for your peers to review.

query indexed

☒ Show all | Number of rows: All | Filter rows:

+ Options

billid	customerid	billedamount	monthid
8509	285	20000	20096
68268	559	20000	20146
81622	643	20000	20157
84858	317	20000	20161
89353	871	20000	20163
102682	937	20000	20174
109574	386	20000	201810
121844	777	20000	201910

RUBRIC

Did the learner correctly write a query to select all rows with a billedamount > 19999 in table "billdata"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

☒ 1 point

IN

Correct. The query time is at least half that of the time recorded in task 2.3.

☐ 0 points

Incorrect. The learner did not submit the screenshot, or the query time is the same as the time recorded in task 2.3.

PROMPT

Task 2.6: Submit the screenshot for the task – Find supported storage engines. (1pt)

Upload the **storage-engines.jpg** (or .png) file for your peers to review.

storage engines

Engine	Support	Comment	Transactional	XA	Supports
MEMORY	YES	Embedded MySQL storage engine	NO	NO	NO
MYISAM	YES	Most common, oldest storage engine for MySQL	NO	NO	NO
PERFORMANCE_SCHEMA	YES	Supports Transaction, Two-Phase Locking, and Foreign Keys	NO	NO	NO
ARCHIVE	YES	Archived Storage Engine	NO	NO	NO
BLACKHOLE	YES	MySQL storage engine	NO	NO	NO
MRG_MYISAM	YES	Read-only MySQL storage engine	NO	NO	NO
MYISAM	YES	Read-only MySQL storage engine	NO	NO	NO
PERFORMANCE_SCHEMA	YES	Supports Transaction, Two-Phase Locking, and Foreign Keys	NO	NO	NO
ARCHIVE	YES	Archived Storage Engine	NO	NO	NO
BLACKHOLE	YES	MySQL storage engine	NO	NO	NO
MRG_MYISAM	YES	Read-only MySQL storage engine	NO	NO	NO
MYISAM	YES	Read-only MySQL storage engine	NO	NO	NO

RUBRIC

Did the learner identify if the current MySQL server supports the MyISAM storage engine or not?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

☒ 1 point

IN

Correct. The screenshot shows that MyISAM storage engine is supported.

☐ 0 points

Incorrect. The learner did not submit the screenshot, or MyISAM is not present in the output.

PROMPT

Task 2.7: Submit the screenshot for the task – Find the storage engine of a table. (1pt)

RUBRIC

Did the learner correctly identify the storage engine of the table "billdata"?

Upload the **storage-engine-type.jpg** (or .png) file for your peers to review.

storage engine type

```
mysql> SELECT ENGINE
-> FROM information_schema.TABLES
-> WHERE TABLE_SCHEMA = 'billing'
-> AND TABLE_NAME = 'billdata';
+-----+
| ENGINE |
+-----+
| InnoDB |
+-----+
1 row in set (0.00 sec)
```

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** IN
Correct. The screenshot shows the storage engine of the table "billdata" as InnoDB.
- ☐ 0 points
Incorrect. The learner did not submit the screenshot, or the output does not show InnoDB.

PROMPT

Task 3.1: Submit the screenshot for the task – Restore the table "billing". (2pts)

Upload the **restore-table.jpg** (or .png) file for your peers to review.

restore table



RUBRIC

Did the learner correctly restore the table "billing"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **2 points** IN
Correct. The screenshot shows all the items below:
- 132000 rows read
 - 132000 rows loaded
 - 0 rows rejected
 - 0 Errors
- ☐ 1 point
Partially Correct. The screenshot shows one or more errors.
- ☐ 0 points
Incorrect. The learner did not submit the screenshot or zero rows were loaded.

PROMPT

Task 3.2: Submit the screenshot for the task – Create a view named "basicbilldetails" with the columns customerid, month, billedamount. (1pt)

Upload the **create-view.jpg** (or .png) file for your peers to review.

create view

```
mysql> CREATE VIEW basicbilldetails AS
SELECT customerid, month, billedamount
FROM billing;
```

RUBRIC

Did the learner correctly create the view "basicbilldetails"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** IN
Correct. The learner has correctly used the "CREATE VIEW" statement and specified the columns "customerid", "month", "billedamount" and specified the table name "billing".
- ☐ 0 points
Incorrect. The learner did not submit the screenshot, or wrongly

mentioned the column names or the table name.



PROMPT

Task 3.3: Submit the screenshot for the task – Baseline query performance. **(1pt)**

Upload the **query-base-line-db2.jpg** (or .png) file for your peers to review.

SELECT * FROM BILLING WHERE billedamount = 19929 Run time: 0.0029 s

Result set 1					
CUSTOMERID	CATEGORY	COUNTRY	INDUSTRY	MONTH	BILLEDAMOUNT
249	Company	China	Human Resources	2009-1	19929
664	Company	Poland	Sales	2012-6	19929
614	Individual	United States	Product Management	2013-1	19929
674	Company	Ukraine	Support	2013-12	19929
598	Company	United Kingdom	Training	2015-9	19929

RUBRIC

Did the learner correctly record the query run time?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** Correct. The learner has correctly used the "SELECT" statement with a "WHERE" clause to filter for billedamount of 19929. The output rows and run time are clearly visible.
- ☐ **0 points** Incorrect. The learner did not submit the screenshot, or the output rows and run time are missing.

IN



PROMPT

Task 3.4: Submit the screenshot for the task – Create an index. **(1pt)**

Upload the **index-creation-db2.jpg** (or .png) file for your peers to review.

index creation
No uploaded file

RUBRIC

Did the learner correctly create the index named "billingamount"?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** Correct. The screenshot shows the "CREATE INDEX" statement with name as "billingamount", table name as "billing" and column name as "billedamount".
- ☐ **0 points** Incorrect. The learner did not submit the screenshot, or the index, column or table name is incorrect.

IN



PROMPT

Task 3.5: Submit the screenshot for the task – Document the improvement in query performance. **(1pt)**

Upload the **query-after-index.jpg** (or .png) file for your peers to review.

query after index

SELECT * FROM BILLING WHERE billedamount = 19929 Run time: 0.002 s

Result set 1					
CUSTOMERID	CATEGORY	COUNTRY	INDUSTRY	MONTH	BILLEDAMOUNT
249	Company	China	Human Resources	2009-1	19929
664	Company	Poland	Sales	2012-6	19929
614	Individual	United States	Product Management	2013-1	19929
674	Company	Ukraine	Support	2013-12	19929

RUBRIC

Did the learner correctly record the query run time?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** Correct. The learner has correctly used the "SELECT" statement with a "WHERE" clause to filter for "billedamount" of 19929. The output rows and run time are clearly visible.

IN

- ☐ 0 points
Incorrect. The learner did not submit the screenshot, or the output rows and run time are missing.

[Start new attempt](#)

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.

SS

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