

Course: Database management

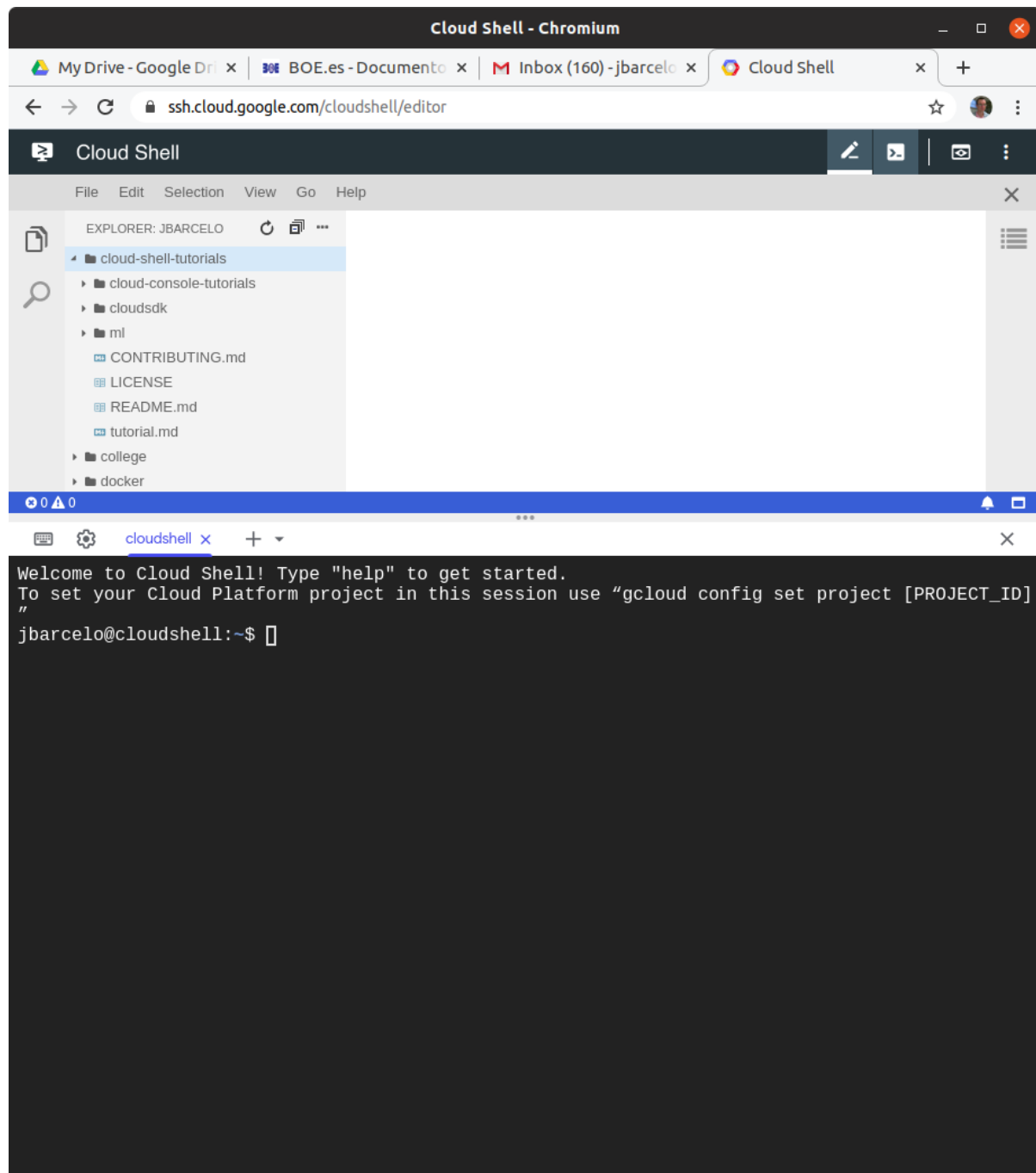
Unit: Intermediate SQL 1

Assignment: Dockerized phpMyAdmin in Google CloudShell

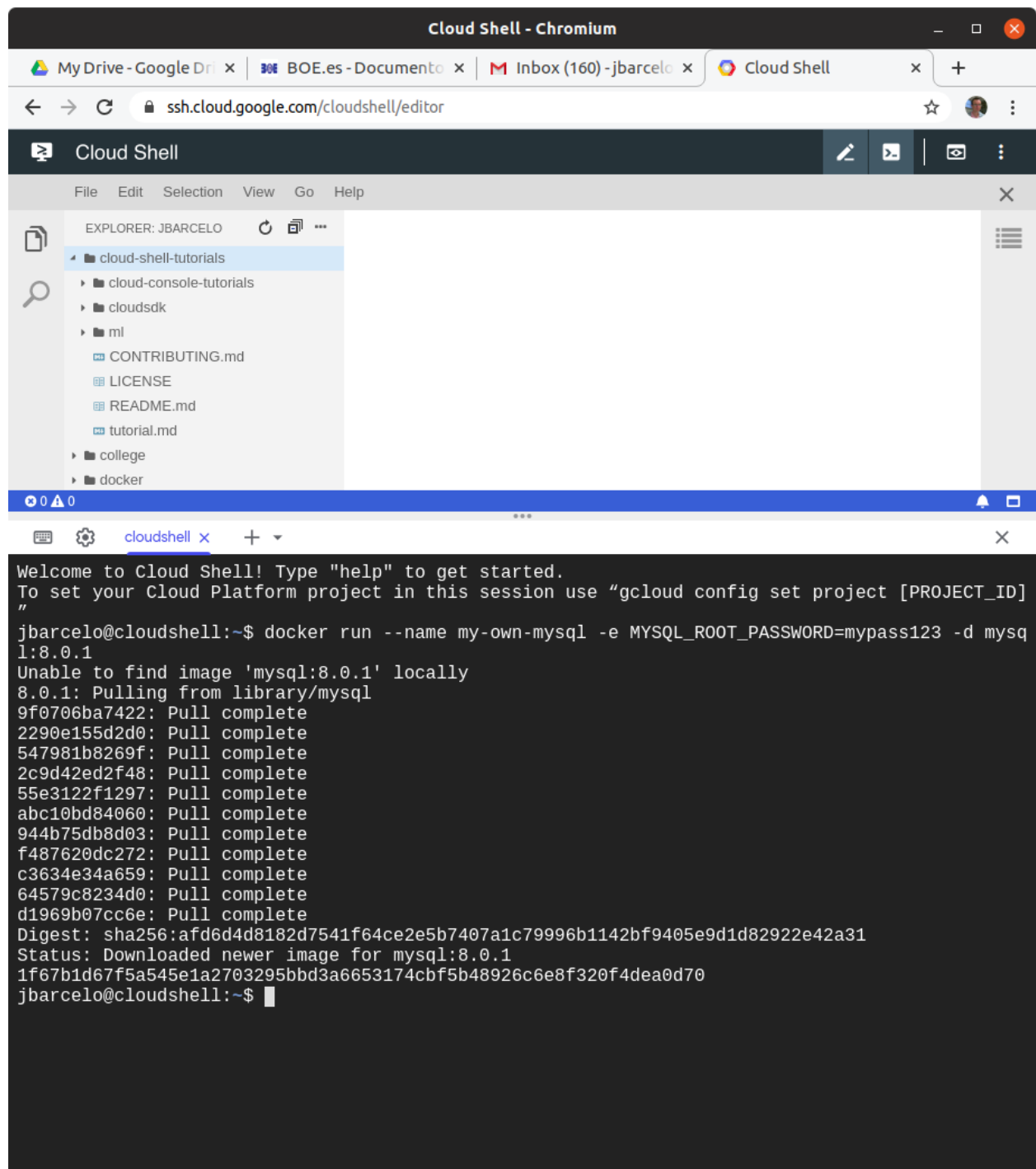
Teamwork: Groups of two or three

Work in pairs and deliver a report of your activity. Complete the following tasks:

1 Open a google cloudshell.



2 Launch a dockerized mysql database.



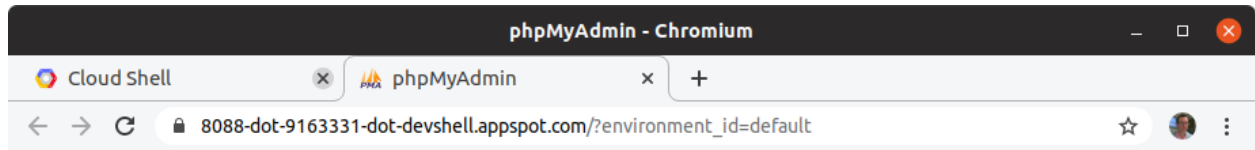
The screenshot shows a Chromium browser window titled "Cloud Shell - Chromium". The address bar displays the URL `ssh.cloud.google.com/cloudshell/editor`. The browser tabs include "My Drive - Google Drive", "BOE.es - Documentos", "Inbox (160) - jbarcelo", and "Cloud Shell". The Cloud Shell interface features a menu bar with "File", "Edit", "Selection", "View", "Go", and "Help". Below the menu is a file explorer titled "EXPLORER: JBARCELO" showing a directory structure with folders like "cloud-shell-tutorials", "cloud-console-tutorials", "cloudsdk", "ml", "college", and "docker". The "cloud-shell-tutorials" folder is expanded, showing files like "CONTRIBUTING.md", "LICENSE", "README.md", and "tutorial.md". The terminal window at the bottom shows a welcome message and the execution of the command `docker run --name my-own-mysql -e MYSQL_ROOT_PASSWORD=mypass123 -d mysql:8.0.1`. The output indicates that the image was pulled from the library, showing progress for various layers and the final digest.

```
Welcome to Cloud Shell! Type "help" to get started.
To set your Cloud Platform project in this session use "gcloud config set project [PROJECT_ID]"
jbarcelo@cloudshell:~$ docker run --name my-own-mysql -e MYSQL_ROOT_PASSWORD=mypass123 -d mysql:8.0.1
Unable to find image 'mysql:8.0.1' locally
8.0.1: Pulling from library/mysql
9f0706ba7422: Pull complete
2290e155d2d0: Pull complete
547981b8269f: Pull complete
2c9d42ed2f48: Pull complete
55e3122f1297: Pull complete
abc10bd84060: Pull complete
944b75db8d03: Pull complete
f487620dc272: Pull complete
c3634e34a659: Pull complete
64579c8234d0: Pull complete
d1969b07cc6e: Pull complete
Digest: sha256:afd6d4d8182d7541f64ce2e5b7407a1c79996b1142bf9405e9d1d82922e42a31
Status: Downloaded newer image for mysql:8.0.1
1f67b1d67f5a545e1a2703295bbd3a6653174cbf5b48926c6e8f320f4dea0d70
jbarcelo@cloudshell:~$
```

3 Launch a dockerized phpMyAdmin connected to the database of the previous step.

```
jbarcelo@cloudshell:~$
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jbarcelo@cloudshell:~$ docker run --name my-own-phpmyadmin -d --link my-own-mysql:db -p 8088:80 phpmyadmin/phpmyadmin
Unable to find image 'phpmyadmin/phpmyadmin:latest' locally
latest: Pulling from phpmyadmin/phpmyadmin
000eeee12ec04: Pull complete
8ae4f9fcfeea: Pull complete
60f22fbbd07a: Pull complete
ccc7a63ad75f: Pull complete
a2427b8dd6e7: Pull complete
91cac3b30184: Pull complete
d6e40015fc10: Pull complete
240e21c03bb4: Pull complete
504858e1e4aa: Pull complete
9a0523b2d73f: Pull complete
e3acb84829f4: Pull complete
28a372733f87: Pull complete
62ee66cdb80a: Pull complete
c3f368ddc7aa: Pull complete
6aa5380b17bb: Pull complete
6c3ac4876777: Pull complete
6839c0505b2a: Pull complete
4908eec9cb09: Pull complete
fc79f6e3c5ff: Pull complete
Digest: sha256:d5148b3263e4a3db2a42afcaa5565416b9b63bd8992b1c9aed9c18b7512d1014
Status: Downloaded newer image for phpmyadmin/phpmyadmin:latest
d5b81048d329b2a3df8af54899999d52991456de1059416b0b82344729e148db
jbarcelo@cloudshell:~$
```

4 Use the “web preview” button to connect to phpMyAdmin



<https://8088-dot-9163331-dot-devshell.appspot.com/url.php?url=https%3A%2F%2Fwww.phpmyadmin.net%2F>

5 Create de university database. Create the instructor and department tables and fill them with data. Create the primary keys and the foreign key.

6 Provide feedback and suggestions regarding this assignment.