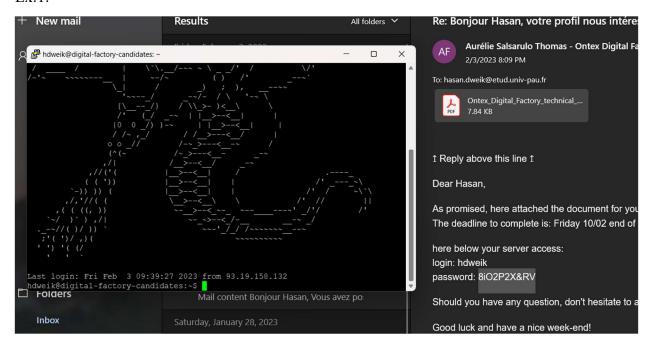
## Homework Report

by Hasan Dweik

to Ontex Digital Factory

hasan dweik@outlook.com

## Ex:1:



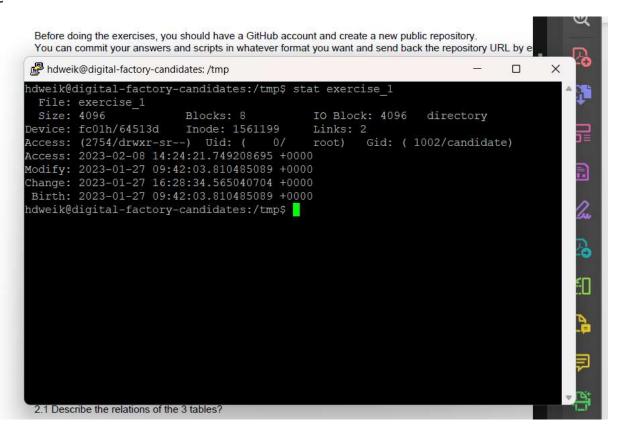
Connected using putty to the remote server with the IP address 217.69.11.235 and credentials given by email.

```
1.1
                                                                                 tions
                                                                                 n the
                                                                                 man
     Last login: Fri Feb 3 09:39:27 2023 from 93.19.158.132
     hdweik@digital-factory-candidates:~$ uname -a
     Linux digital-factory-candidates 5.15.0-58-generic #64-Ubuntu SMP Thu Jan 5 11:4
     3:13 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux hdweik@digital-factory-candidates:~$
                  Exercise 2
               cat: '/etc/*-release~': No such file or directory
               hdweik@digital-factory-candidates:~$ lsb release -a 🤇
               No LSB modules are available.
               Distributor ID: Ubuntu
               Description:
                                   Ubuntu 22.04.1 LTS
               Release:
                                   22.04
               Codename:
                                   jammy
               hdweik@digital-factory-candidates:~$
```

uname -a: This command provides information about the system, including the Linux kernel version and the hostname. The information returned by this command may also give you some hints about the Linux distribution installed on the system.

lsb\_release: This command is available on most modern Linux distributions and provides information about the distribution release.

1.2



- **drwxr-sr--:** This is the permission string for the folder.
- **d:** Indicates that this is a directory (folder)
- rwx: The owner (root) has read, write, and execute permissions for this folder.
- **r-s:** Members of the group (candidate) have read and execute permissions, but not write permissions.
- r--: Other users have only read permissions, but not write or execute permissions.
- **Uid:** This is the user ID (UID) of the owner of the folder, which is 0 (root).
- **Gid:** This is the group ID (GID) of the group associated with the folder, which is 1002 (candidate).
- These permissions indicate that the owner of the folder (root) has full control over it, members of the group (candidate) can read and execute its contents, but not modify it, and other users can only read its contents but cannot make any changes.

```
hdweik@digital-factory-candidates:/
hdweik@digital-factory-candidates:/$ find -name api_key 2>/dev/null
hdweik@digital-factory-candidates:/$
```

This command will search for a file named "api\_key" starting from the root directory (/) and it will redirect errors (2>/dev/null) to avoid showing any "permission denied" messages.

The trick is to show all hidden files.

find / -name ".\*" -o -name api key 2>/dev/null

```
/snap/core20/1822/etc/.pwd.lock
/snap/core20/1822/etc/skel/.bash_logout
/snap/core20/1822/etc/skel/.bashrc

na
/snap/core20/1822/etc/skel/.profile
/data/.secret_folder
nchdweik@digital-factory-candidates:/$
scription.
```

cd /data/.secret folder

nano api\_key



The API key is: 81vhcdbbftogrypwbqtrjznhupnfidom

```
hdweik@digital-factory-candidates: /
                                                             X
 hdweik@digital-factory-candidates:/$ mysql
 Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 57
 Server version: 8.0.32-0ubuntu0.22.04.2 (Ubuntu)
 Oracle is a registered trademark of Oracle Corporation and/or its
 affiliates. Other names may be trademarks of their respective
 owners.
 Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
 mysql> SHOW DATABASES;
  Database
  ecommerce
  information schema
  performance schema
  rows in set (0.03 sec)
 mysql>
mysql> use ecommerce;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables
 Tables in ecommerce |
 customer entity
 sales order
3 rows in set (0.01 sec)
nysql>
 store | CREATE TABLE `store` (
  store id' smallint unsigned NOT NULL AUTO INCREMENT COMMENT 'Store ID',
  `code` varchar(32) DEFAULT NULL COMMENT 'Code',
 `website id` smallint unsigned NOT NULL DEFAULT '0' COMMENT 'Website ID',
  `group id` smallint unsigned NOT NULL DEFAULT '0' COMMENT 'Group ID',
  `name` varchar(255) NOT NULL COMMENT 'Store Name',
  `sort order` smallint unsigned NOT NULL DEFAULT '0' COMMENT 'Store Sort Order'
 `is active` smallint unsigned NOT NULL DEFAULT '0' COMMENT 'Store Activity',
 PRIMARY KEY (`store_id`),
 UNIQUE KEY `STORE_CODE` (`code`),
 KEY `STORE WEBSITE ID` (`website id`),
 KEY `STORE IS ACTIVE SORT ORDER` (`is active`, `sort order`),
 KEY 'STORE GROUP ID' ('group id')
 ENGINE=InnoDB AUTO INCREMENT=10 DEFAULT CHARSET=utf8mb3 COMMENT='Stores' |
```

```
customer entity | CREATE TABLE `customer entity` (
  'entity id' int unsigned NOT NULL AUTO INCREMENT COMMENT 'Entity ID',
  `website id` smallint unsigned DEFAULT NULL COMMENT 'Website ID',
  `email` varchar(255) DEFAULT NULL COMMENT 'Email',
  `group id` smallint unsigned NOT NULL DEFAULT '0' COMMENT 'Group ID',
   store id` smallint unsigned DEFAULT '0' COMMENT 'Store ID',
  created at` timestamp NOT NULL DEFAULT CURRENT TIMESTAMP COMMENT 'Created At'
  'updated at' timestamp NOT NULL DEFAULT CURRENT TIMESTAMP ON UPDATE CURRENT TI
MESTAMP COMMENT 'Updated At',
  `is active` smallint unsigned NOT NULL DEFAULT '1' COMMENT 'Is Active',
  `created in` varchar(255) DEFAULT NULL COMMENT 'Created From',
  `prefix` varchar(40) DEFAULT NULL COMMENT 'Name Prefix',
  'firstname' varchar(255) DEFAULT NULL COMMENT 'First Name',
  `middlename` varchar(255) DEFAULT NULL COMMENT 'Middle Name/Initial',
  `lastname` varchar(255) DEFAULT NULL COMMENT 'Last Name',
  `suffix` varchar(40) DEFAULT NULL COMMENT 'Name Suffix',
  'dob' date DEFAULT NULL COMMENT 'Date of Birth',
   password hash` varchar(128) DEFAULT NULL COMMENT 'Password hash',
  `default_billing` int unsigned DEFAULT NULL COMMENT 'Default Billing Address', `default_shipping` int unsigned DEFAULT NULL COMMENT 'Default Shipping Address
  PRIMARY KEY ('entity id'),
  UNIQUE KEY `CUSTOMER ENTITY EMAIL WEBSITE ID` (`email`, `website id`),
  KEY `CUSTOMER_ENTITY_STORE_ID` (`store_id`),
  KEY `CUSTOMER_ENTITY_WEBSITE_ID` (`website_id`),
  KEY `CUSTOMER ENTITY FIRSTNAME` (`firstname`),
  KEY 'CUSTOMER ENTITY LASTNAME' ('lastname'),
  CONSTRAINT `CUSTOMER ENTITY STORE ID STORE STORE ID` FOREIGN KEY (`store id`)
REFERENCES 'store' ('store id') ON DELETE SET NULL
 ENGINE=InnoDB AUTO INCREMENT=1110746 DEFAULT CHARSET=utf8mb3 COMMENT='Customer
 Entity' |
```

```
паwеік@aigitai-тастогу-сапаіаатеs: /
  sales order | CREATE TABLE `sales order
   entity id' int unsigned NOT NULL AUTO INCREMENT COMMENT 'Entity ID',
          varchar(32) DEFAULT NULL COMMENT 'State',
   status' varchar(32) DEFAULT NULL COMMENT 'Status',
  'coupon code' varchar(255) DEFAULT NULL COMMENT 'Coupon Code',
  'store \overline{	ext{id}}' smallint unsigned DEFAULT NULL COMMENT 'Store ID',
   customer id' int unsigned DEFAULT NULL COMMENT 'Customer ID'
  'discount amount' decimal(20,4) DEFAULT NULL COMMENT 'Discount Amount',
  'grand total' decimal(20,4) DEFAULT NULL COMMENT 'Grand Total',
  'tax_amount' decimal(20,4) DEFAULT NULL COMMENT 'Tax Amount',
  `billing_address_id` int DEFAULT NULL COMMENT 'Billing Address ID',
`shipping_address_id` int DEFAULT NULL COMMENT 'Shipping Address ID',
  'increment id' varchar(32) DEFAULT NULL COMMENT 'Increment ID',
  `shipping method` varchar(120) DEFAULT NULL,
  `created_at` timestamp NOT NULL DEFAULT CURRENT TIMESTAMP COMMENT 'Created At',
`updated_at` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP COM
MENT 'Updated At',
 PRIMARY KEY ('entity id'),
 UNIQUE KEY `SALES_ORDER_INCREMENT_ID_STORE_ID` (`increment id`, `store id`),
 KEY `SALES_ORDER_STATUS` (`status`),
KEY `SALES_ORDER_STATE` (`state`),
 KEY 'SALES ORDER STORE ID' ('store id'),
 KEY `SALES ORDER CREATED AT` (`created at`),
 KEY `SALES_ORDER_CUSTOMER_ID` (`customer_id`),
KEY `SALES_ORDER_UPDATED_AT` (`updated_at`),
 CONSTRAINT 'SALES ORDER CUSTOMER ID CUSTOMER ENTITY ENTITY ID' FOREIGN KEY ('customer id'
 REFERENCES `customer entity` (`entity_id`) ON DELETE SET NULL,
 CONSTRAINT `SALES_ORDER_STORE_ID_STORE_STORE_ID` FOREIGN KEY (`store_id`) REFERENCES `sto
   ('store id') ON DELETE SET NULL
 ENGINE=InnoDB AUTO INCREMENT=389062 DEFAULT CHARSET=utf8mb3 COMMENT='Sales Flat Order' |
```

## 2.1

- A customer entity can be associated with a store using the store id
- Each sales order is associated with a customer and a store using the customer

2.2

 $SELECT\ customer\_entity.email,\ sales\_order.grand\_total,\ sales\_order.created\_at$ 

FROM sales order

INNER JOIN customer entity ON sales order.customer id = customer entity.entity id

INNER JOIN store ON sales order.store id = store.store id

WHERE store.name = 'LBC FR-FR' AND sales\_order.status = 'processing' AND customer\_entity.created\_at >= '2022-12-01' AND customer\_entity.created\_at < '2023-01-01'

AND customer entity.email LIKE 'odevelop%'

```
ysql> SELECT customer_entity.email, sales_order.grand_total, sales_order.created_at
    -> FROM sales order
   -> INNER JOIN customer_entity ON sales_order.customer_id = customer_entity.entity_id -> INNER JOIN store ON sales_order.store_id = store.store_id
    -> WHERE store.name = 'LBC FR-FR' AND sales_order.status = 'processing' AND customer_entity.
created at >= '2022-12-01' AND customer_entity.created_at < '2023-01-01'
    -> AND customer_entity.email LIKE 'odevelop%'
 email
                                    | grand_total | created_at
 odevelopement+2077225@gmail.com
                                          99.6000 |
                                                     2022-12-01 05:28:26
 odevelopement+5666898@gmail.com
                                                     2022-12-01 05:32:12
                                          54.0000 |
 odevelopement+4395508@gmail.com |
                                          54.0000 |
                                                    2022-12-01 06:09:13
 odevelopement+6100308@gmail.com |
 odevelopement+8354335@gmail.com
                                          99.6000
                                                    2022-12-02 05:19:10
 odevelopement+8069083@gmail.com
                                          54.0000 |
                                                    2022-12-02 05:23:11
 odevelopement+4795988@gmail.com
                                          54.0000 |
                                                    2022-12-02 05:26:19
 odevelopement+513194@gmail.com
                                          54.0000 |
 odevelopement+312506@gmail.com
                                          99.6000
                                                    2022-12-05 05:17:14
 odevelopement+9833520@gmail.com
                                                     2022-12-05 05:21:10
                                          54.0000 |
 odevelopement+7854345@gmail.com |
                                                    2022-12-05 05:23:28
                                          54.0000 |
 odevelopement+3173295@gmail.com
                                          54.0000 |
                                                    2022-12-06 05:18:11
 odevelopement+6614899@gmail.com
                                          99.6000
 odevelopement+9678938@gmail.com
                                          54.0000
                                                    2022-12-06 05:22:14
  odevelopement+6495988@gmail.com
                                          54.0000
                                                     2022-12-06 05:24:13
```

2.3

```
| 2022-11-03 06:37:06 | 1108297 | odevelopement+72623066gmail.com | 2023-01 | 1 | 105.4000 | 2022-11-03 06:43:48 | 1108301 | odevelopement+13677966gmail.com | 2023-01 | 1 | 54.0000 | 2022-10-06 06:08:48 | 1106413 | odevelopement+15782896gmail.com | 2023-01 | 1 | 54.0000 | 2022-08-11 09:05:10 | 1103562 | odevelopement+37506506gmail.com | 2023-01 | 1 | 105.4000 | 2022-10-06 06:40:11 | 1106428 | odevelopement+58593686gmail.com | 2023-01 | 1 | 105.4000 | 2022-10-06 06:40:11 | 1106428 | odevelopement+58593686gmail.com | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 1 | 105.4000 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 | 2023-01 |
```

SELECT customer\_entity.created\_at AS customer\_created\_at, customer\_entity.entity\_id, customer\_entity.email,

DATE FORMAT(sales order.created at, '%Y-%m') AS order month,

COUNT(sales\_order.entity\_id) AS order\_count,

SUM(sales order.grand total) AS order total

FROM customer entity

INNER JOIN sales order ON customer entity.entity id = sales order.customer id

INNER JOIN store ON sales order.store id = store.store id

WHERE store.store id = 4 AND sales order.status IN ('complete', 'processing', 'closed')

GROUP BY customer\_created\_at, customer\_entity.entity\_id, customer\_entity.email, order month