Team 18 Project A

Course: CIS 4338

Submitted to University of Houston

College of Technolog

Information and Logistics Technology

by

Team 18

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# Task 1: Team Communication

Team 18 used the following tools to communicate and manage the deliverables for the project. GroupMe (figure 1.) was used to communicate and update group members on the progress of the deliverables while Google Drive (figure 2.) was used to organize documents for every group member.

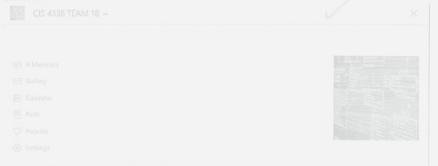


Figure 1. GroupMe chat for Team 18



Figure 2. Google drive for Team 18

# Task 2: Database schema creation in Oracle SQL Developer

For this following task, Team 18 was instructed to construct a bare bones version of the database schema based on the ERD provided to us. Fields have been adjusted to match Oracle's data types and specifications along with the specifications the professor required. Each team member wrote CREATE commands to implement the given schema. Since there were 14 tables total each team member wrote 3-4 commands. Contributions of Table Creation of each Individual Member are as follows:

# Ahmad Al Saadi: 4 create commands

### Task 3: Database created on class server

The following figure shown below shows Team 18's database creation on the class server in Oracle SQL Developer.



Figure 3. T18 database on the class server

# Task 4: Grant Privilege

Once the database was created the owner had become T18, but each team member needed to be granted privileges in order to do things such as SELECT, INSERT, UPDATE, and DELETE to the objects and data that exist within the schema.

The following figures show each team member being granted privilege



Figure 4. Grant privileges to aalsaadi (Ahmad Al Saadi)

# Task 6: Data Scenarios

Data Scenario A-

al Saadi?

Shirlene Macshirie from Finance previously discontinued Mozilla Firefox as her designated browser and decided to instead use Google chrome. The employee returned an operational Firefox license back in July 10, 2019, however the status of the asset is still documented as unknown. There are currently employees eager to have their own Firefox license, and since this license is still operational, it is worth updating the asset status to available and then issue it.

### Task 7C: Team members work to bulk load data

```
load data
infile 'H:\Schemas\second_inventory_set.csv'
append into table t18.it asset_inventory
fields terminated by ","
optionally enclosed by '"'
( it_asset_inv_id, asset_id, purchase_or_rental, asset_acquired_date
asset status_code, asset_disposed_date, other_details_)
```

Figure 9. IT\_ASSET\_INVENTORY SQL\*LOADER Control file (Ahmad Al Saadi)

			<u>A</u> • H H - H

Figure 10. IT\_ASSET\_INVENTORY source file (Ahmad Al Saadi)

any 2015 applications?

```
H:\>sqlldr CONTROL =H:\Schemas\second_inventory_set_control.ctl
LOG = H:\Schemas\second_inventory_set_mylogB.log
Username:aalsaadi@ (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=cot-cis4338-01)(PORT=1521))(CONNECT_DATA=(SID=orcl)))
Password:

SQL*Loader: Release 12.1.0.2.0 - Production on Sat Mar 7 17:08:3
4 2020

Copyright (c) 1982, 2014, Oracle and/or its affiliates. All rig
hts reserved.

Path used: Conventional
Commit point reached - logical record count 64
Commit point reached - logical record count 128
Commit point reached - logical record count 192
Commit point reached - logical record count 250

Table T18.IT_ASSET_INVENTORY:
    250 Rows successfully loaded.

Check the log file:
    H:\Schemas\second_inventory_set_mylog8.log
for more information about the load.
```

Figure 11. IT\_ASSET\_INVENTORY SQLLDR Command (Ahmad Al Saadi)

### Task 7D: Bulk loading using Oracle SQL Devloper:

Figure 21. Bulk loading using SQL Developer for IT ASSET INVENTORY (Ahmad At Saadi)

# Task8: Executing Oracle system commands/views

The following table showcases some commands and system views that were extracted via Oracle system views. This data helps to support running the database.

# Task 9: Queries for data scenarios

The following information and figures show the queries that were written for the data scenarios earlier in the project (task 6)

Figure 26. Ouerv for data scenario A with results shown

Data Scenario B:

# Task 10: Retrieval Queries

The following queries have been developed to support the business processes supported by the schema tables. These queries are designed to use multiple tables in order to collect all the needed data for a report.

Each query is accompanied by a description of its purpose within the business, as well as screenshots displaying both the query and results

Retrieval Query A

# This retrieval query shows us inventory counts less then 5, which is considered a shortage that needs to be addressed \*/ select it asset inventory.asset id, it asset.asset make, it asset.asset model, count(\*) as qty from t18.it\_asset\_inventory right join t18.it\_asset on it\_asset\_inventory.asset\_id = it\_asset.asset\_id group by it\_asset\_inventory.asset\_id, it\_asset.asset\_make, it\_asset.asset\_model having count(\*) <= 5;