--Capstone Project

/\*BEGIN

FOR c\_table IN (SELECT table\_name

FROM all\_tables

WHERE owner = 'N01099271'--'SYSADM'

ORDER BY TABLE\_NAME

)

LOOP

EXECUTE IMMEDIATE 'DROP TABLE ' || c\_table.table\_name || ' CASCADE CONSTRAINTS' ;

END LOOP;

FOR c\_sequence IN (SELECT object\_name

FROM all\_objects

WHERE owner = 'N01099271' --'SYSADM'

AND object\_type='SEQUENCE'

)

LOOP

EXECUTE IMMEDIATE 'DROP SEQUENCE ' || c\_sequence.object\_name;

END LOOP;

END;

\*/

CREATE SEQUENCE seq\_countries;

CREATE SEQUENCE seq\_actors;

CREATE SEQUENCE seq\_companies;

CREATE SEQUENCE seq\_clients;

CREATE SEQUENCE seq\_departments;

CREATE SEQUENCE seq\_distributors;

CREATE SEQUENCE seq\_employees;

CREATE SEQUENCE seq\_directors; -- ADDED 07-FEB-2017 BY Armando

CREATE SEQUENCE seq\_writers; -- ADDED 07-FEB-2017 BY Armando

CREATE SEQUENCE seq\_films;

CREATE SEQUENCE seq\_genre;

CREATE SEQUENCE seq\_income\_taxes;

CREATE SEQUENCE seq\_inventories;

CREATE SEQUENCE seq\_languages;

CREATE SEQUENCE seq\_media;

CREATE SEQUENCE seq\_order\_items;

CREATE SEQUENCE seq\_orders;

CREATE SEQUENCE seq\_paystubs;

CREATE SEQUENCE seq\_purchases;

CREATE SEQUENCE seq\_sales\_taxes;

CREATE SEQUENCE seq\_shipments;

CREATE SEQUENCE seq\_supplier\_location;

CREATE SEQUENCE seq\_supplier;

CREATE SEQUENCE seq\_system\_users;

CREATE SEQUENCE seq\_warehouse;

CREATE SEQUENCE seq\_payment\_details;

--CREATE SEQUENCE seq\_billing\_details;

CREATE SEQUENCE seq\_tracking\_details;

CREATE SEQUENCE seq\_directors;

CREATE SEQUENCE seq\_writers;

CREATE TABLE system\_users( -- system users

user\_id NUMBER DEFAULT seq\_system\_users.NEXTVAL,

username VARCHAR2(20),

passwd VARCHAR2(20) NOT NULL , -- PASSWD VARCHAR2(20) ENCRYPT NOT NULL

PROFILE VARCHAR2(20) NOT NULL,

CONSTRAINT pk\_s\_users PRIMARY KEY (user\_id),

CONSTRAINT uk\_s\_users UNIQUE (username)

);

CREATE TABLE sales\_taxes (

sales\_tax\_id NUMBER DEFAULT seq\_sales\_taxes.NEXTVAL,

tax\_name VARCHAR2(10),

tax\_value NUMBER,

CONSTRAINT pk\_sales\_taxes PRIMARY KEY (sales\_tax\_id)

);

CREATE TABLE country( --country table

country\_id NUMBER DEFAULT seq\_countries.NEXTVAL,

country\_name VARCHAR2(50),

CONSTRAINT pk\_country PRIMARY KEY (country\_id)

);

CREATE TABLE clients(

client\_id NUMBER DEFAULT seq\_clients.NEXTVAL, -- account number will be the client\_id

business\_number VARCHAR2(20) NOT NULL, --can be more than one document right?

client\_name VARCHAR2(100) NOT NULL,

client\_rep VARCHAR2(30), --- main contact representative

client\_tel VARCHAR2(15), --- main contact phone

CONSTRAINT pk\_clients PRIMARY KEY (client\_id)

); --- client information

CREATE TABLE actors(

actor\_id NUMBER DEFAULT seq\_actors.NEXTVAL,

actor\_name VARCHAR2(100),

actor\_nationality VARCHAR2(20),

CONSTRAINT pk\_actors PRIMARY KEY (actor\_id)

); --- actors of the movie

CREATE TABLE genre(

genre\_id NUMBER DEFAULT seq\_genre.NEXTVAL,

genre\_definition VARCHAR2(20),

CONSTRAINT pk\_genre PRIMARY KEY (genre\_id)

);

CREATE TABLE distributors(

distributor\_id NUMBER DEFAULT seq\_distributors.NEXTVAL,

distributor\_name VARCHAR2(40),

CONSTRAINT pk\_distributors PRIMARY KEY (distributor\_id)

); --- Walt Disney, WB, etc.

CREATE TABLE media(

media\_id NUMBER DEFAULT seq\_media.NEXTVAL,

media\_type VARCHAR2(20), --- DVD, BLU RAY, CD, ...

CONSTRAINT pk\_media PRIMARY KEY (media\_id)

);

CREATE TABLE languages( --no foreign key needed

language\_id NUMBER DEFAULT seq\_languages.NEXTVAL,

language\_desc VARCHAR2(20),

CONSTRAINT pk\_languages PRIMARY KEY(language\_id)

);

CREATE TABLE films(

film\_id NUMBER DEFAULT seq\_films.NEXTVAL,

film\_name VARCHAR2(50),

film\_description VARCHAR2(1000), -- Added 07-FEB-2017 by Armando

release\_date DATE,

CONSTRAINT pk\_film PRIMARY KEY (film\_id)

); -- movie details

CREATE TABLE departments(

department\_id NUMBER DEFAULT seq\_departments.NEXTVAL,

d\_name VARCHAR2(25),

CONSTRAINT pk\_departments PRIMARY KEY (department\_id)

);

CREATE TABLE income\_tax (

income\_tax\_id NUMBER DEFAULT seq\_income\_taxes.NEXTVAL,

tax\_value NUMBER,

CONSTRAINT pk\_income\_tax PRIMARY KEY(income\_tax\_id)

);

CREATE TABLE shipping\_companies(

company\_id NUMBER DEFAULT seq\_companies.NEXTVAL,

company\_name VARCHAR2(25),

company\_contact VARCHAR2(10),

contact\_person VARCHAR2(25),

CONSTRAINT pk\_ship\_company PRIMARY KEY (company\_id)

);

CREATE TABLE payment\_details( -- to store credit/debit details

payment\_id NUMBER DEFAULT seq\_payment\_details.NEXTVAL,

client\_id NUMBER,

payment\_type VARCHAR2(20), --- CAN BE CREDIT CARD, DEBIT, DIRECT DEPOSIT, MONEY, MONEY ORDER, CHEQUE

pin NUMBER INVISIBLE,

---anything else?

CONSTRAINT fk\_payment\_details FOREIGN KEY(client\_id) REFERENCES clients(client\_id),

CONSTRAINT pk\_payment\_details PRIMARY KEY(payment\_id)

);

CREATE TABLE state(

state\_id NUMBER,

country\_id NUMBER,

state\_name VARCHAR2(20),

CONSTRAINT pk\_state PRIMARY KEY (state\_id),

CONSTRAINT fk\_country\_id FOREIGN KEY(country\_id) REFERENCES country(country\_id)

);

/\*

CREATE TABLE billing\_details(--billing details of the client

billing\_id NUMBER DEFAULT seq\_billing\_details.NEXTVAL,

bill\_first\_name VARCHAR2(40), -- billing info can be null if its same as the current ans so can be separated

bill\_last\_name VARCHAR2(100),

bill\_street VARCHAR2(50),

bill\_apt\_unit VARCHAR2(10),

state\_id NUMBER NOT NULL,

bill\_country VARCHAR2(30),

bill\_postal\_code VARCHAR2(10),

bill\_phone\_number VARCHAR2(15),

bill\_fax\_number VARCHAR2(15),

bill\_cell\_number VARCHAR2(15),

CONSTRAINT pk\_billing\_details PRIMARY KEY(billing\_id),

CONSTRAINT fk\_billing\_state FOREIGN KEY(state\_id) REFERENCES state(state\_id)

);

\*/

CREATE TABLE client\_address(

client\_id NUMBER,

street VARCHAR2(50) NOT NULL,

unit VARCHAR2(10),

city VARCHAR2(30) NOT NULL,

state\_id NUMBER NOT NULL,

phone\_number VARCHAR2(15),

fax\_number VARCHAR2(15),

cell\_number VARCHAR2(15),

extension NUMBER,

CONSTRAINT pk\_ccontactall PRIMARY KEY (client\_id),

CONSTRAINT fk\_ccontact\_cust FOREIGN KEY (client\_id) REFERENCES clients(client\_id),

CONSTRAINT fk\_client\_state FOREIGN KEY(state\_id) REFERENCES state(state\_id)

);

CREATE TABLE client\_status\_all(

client\_id NUMBER,

client\_seq NUMBER,

status VARCHAR2(1) NOT NULL,

mod\_date DATE NOT NULL, --this column is ib ticker\_records

CONSTRAINT pk\_cstatusall PRIMARY KEY (client\_id, client\_seq),

CONSTRAINT fk\_cstat\_cust FOREIGN KEY (client\_id) REFERENCES clients(client\_id)

);-- active, inactive, on hold

CREATE TABLE sys\_track\_details ( --- ALL THE CHANGES MADE BY USERS WILL BE RECORDED HERE

track\_id NUMBER DEFAULT seq\_tracking\_details.NEXTVAL,

username VARCHAR2(20) NOT NULL,

mod\_date DATE NOT NULL,

comments VARCHAR2(400), ---- WHICH CHANGE HAS BEEN MADE

CONSTRAINT pk\_trecords PRIMARY KEY (track\_id),

CONSTRAINT fk\_trecords\_username FOREIGN KEY (username) REFERENCES system\_users(username)

);

-- Added 07-FEB-2017 by Armando

CREATE TABLE directors(

director\_id NUMBER DEFAULT seq\_directors.NEXTVAL,

country\_id NUMBER,

first\_name VARCHAR2(30) NOT NULL,

last\_name VARCHAR2(60) NOT NULL,

birthdate DATE,

CONSTRAINT pk\_directors PRIMARY KEY (director\_id),

CONSTRAINT fk\_directors\_country FOREIGN KEY (country\_id) REFERENCES country(country\_id)

);

-- Added 07-FEB-2017 by Armando

CREATE TABLE writers(

writer\_id NUMBER DEFAULT seq\_writers.NEXTVAL,

country\_id NUMBER,

first\_name VARCHAR2(30) NOT NULL,

last\_name VARCHAR2(60) NOT NULL,

birthdate DATE,

CONSTRAINT pk\_writers PRIMARY KEY (writer\_id),

CONSTRAINT fk\_writers\_country FOREIGN KEY (country\_id) REFERENCES country(country\_id)

);

CREATE TABLE film\_to\_media(

film\_id NUMBER,

media\_id NUMBER,

CONSTRAINT pk\_film\_to\_media PRIMARY KEY (film\_id, media\_id),

CONSTRAINT fk\_film\_2\_media\_1 FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_film\_2\_media\_2 FOREIGN KEY (media\_id) REFERENCES media(media\_id)

);

-- Added 07-FEB-2017 by Armando

CREATE TABLE film\_to\_distributor(

film\_id NUMBER,

distributor\_id NUMBER,

CONSTRAINT pk\_film\_to\_distributor PRIMARY KEY (film\_id, distributor\_id),

CONSTRAINT fk\_film\_2\_dist\_1 FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_film\_2\_dist\_2 FOREIGN KEY (film\_id) REFERENCES distributors(distributor\_id)

);

CREATE TABLE film\_to\_actor(

film\_id NUMBER,

actor\_id NUMBER,

main\_star Varchar2(20),

CONSTRAINT pk\_film\_to\_actor PRIMARY KEY (film\_id, actor\_id),

CONSTRAINT fk\_film\_2\_actor\_1 FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_film\_2\_actor\_2 FOREIGN KEY (actor\_id) REFERENCES actors(actor\_id)

);

CREATE TABLE film\_to\_genre(

film\_id NUMBER,

genre\_id NUMBER,

CONSTRAINT pk\_film\_to\_genre PRIMARY KEY (film\_id, genre\_id),

CONSTRAINT fk\_film\_2\_genre\_1 FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_film\_2\_genre\_2 FOREIGN KEY (genre\_id) REFERENCES genre(genre\_id)

);

-- Added 07-FEB-2017 by Armando

CREATE TABLE films\_to\_writers (

film\_id NUMBER,

writer\_id NUMBER,

CONSTRAINT pk\_film\_to\_writer PRIMARY KEY (film\_id, writer\_id),

CONSTRAINT fk\_film\_2\_writer\_1 FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_film\_2\_writer\_2 FOREIGN KEY (writer\_id) REFERENCES writers(writer\_id)

);

-- Added 07-FEB-2017 by Armando

CREATE TABLE films\_to\_directors (

film\_id NUMBER,

director\_id NUMBER,

CONSTRAINT pk\_film\_to\_director PRIMARY KEY (film\_id, director\_id),

CONSTRAINT fk\_film\_2\_director\_1 FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_film\_2\_director\_2 FOREIGN KEY (director\_id) REFERENCES directors(director\_id)

);

CREATE TABLE languages\_to\_films (

language\_id NUMBER,

film\_id NUMBER,

CONSTRAINT pk\_language\_to\_films PRIMARY KEY (language\_id, film\_id),

CONSTRAINT fk\_lg\_2\_films\_lg FOREIGN KEY (language\_id) REFERENCES languages(language\_id),

CONSTRAINT fk\_lg\_2\_films FOREIGN KEY (film\_id) REFERENCES films(film\_id)

);

CREATE TABLE warehouses(

warehouse\_id NUMBER DEFAULT seq\_warehouse.NEXTVAL,

warehouse\_name VARCHAR2(25),

street VARCHAR2(25),

city VARCHAR2(25),

state\_id NUMBER,

CONSTRAINT pk\_warehouse PRIMARY KEY (warehouse\_id),

CONSTRAINT fk\_warehouse\_state FOREIGN KEY(state\_id) REFERENCES state(state\_id)

);

CREATE TABLE inventories(--whats in stock in each warehouse

inventory\_id NUMBER DEFAULT seq\_inventories.NEXTVAL,

upc NUMBER(12),

film\_id NUMBER,

media\_id NUMBER,

quantity NUMBER,

warehouse\_id NUMBER,

CONSTRAINT uk\_upc UNIQUE (upc),

CONSTRAINT pk\_inventories PRIMARY KEY (inventory\_id),

CONSTRAINT fk\_inventories\_film FOREIGN KEY (film\_id,media\_id) REFERENCES film\_to\_media(film\_id,media\_id),

CONSTRAINT fk\_warehouse\_id FOREIGN KEY(warehouse\_id) REFERENCES warehouses(warehouse\_id)

);

CREATE TABLE supplier\_location( --no foreign key needed

supplier\_loc\_id NUMBER DEFAULT seq\_supplier\_location.NEXTVAL,

city VARCHAR2(25),

state\_id NUMBER,

postal\_code VARCHAR2(25),

CONSTRAINT pk\_supplier\_location PRIMARY KEY (supplier\_loc\_id),

CONSTRAINT fk\_supplier\_state FOREIGN KEY(state\_id) REFERENCES state(state\_id)

);

CREATE TABLE supplier(

supplier\_id NUMBER DEFAULT seq\_supplier.NEXTVAL,

supplier\_name VARCHAR(25), --added supplier information

supplier\_loc\_id NUMBER,

contact\_person VARCHAR2(25),

contact\_phone VARCHAR2(15),

CONSTRAINT pk\_supplier PRIMARY KEY (supplier\_id),

CONSTRAINT fk\_supplier\_location FOREIGN KEY( supplier\_loc\_id) REFERENCES supplier\_location(supplier\_loc\_id)

); --- who is selling the DVD, Blu Ray

====================

CREATE TABLE employees(

employee\_id NUMBER DEFAULT seq\_employees.NEXTVAL,

department\_id NUMBER,

first\_name VARCHAR2(30),

last\_name VARCHAR2(60),

hire\_date DATE,

birthdate DATE,

gender VARCHAR2(1),

document\_no VARCHAR2(20) NOT NULL,

document\_type VARCHAR2(20) NOT NULL,

CONSTRAINT pk\_employees PRIMARY KEY (employee\_id),

CONSTRAINT fk\_employees\_depto FOREIGN KEY (department\_id) REFERENCES departments(department\_id)

);

CREATE TABLE employee\_status\_all(

employee\_id NUMBER,

employee\_seq NUMBER,

status VARCHAR2(10) NOT NULL,

CONSTRAINT pk\_emp\_stat PRIMARY KEY (employee\_id, employee\_seq),

CONSTRAINT fk\_emp\_stat\_emp FOREIGN KEY (employee\_id) REFERENCES employees(employee\_id)

); --- employee history

CREATE TABLE employee\_dependents(

employee\_id NUMBER,

dependent\_id NUMBER,

first\_name VARCHAR2(30),

last\_name VARCHAR2(60),

birthdate DATE,

gender VARCHAR2(1),

document\_no VARCHAR2(20) NOT NULL,

document\_type VARCHAR2(20) NOT NULL,

CONSTRAINT pk\_emp\_depend PRIMARY KEY (employee\_id, dependent\_id),

CONSTRAINT fk\_emp\_depend\_emp FOREIGN KEY (employee\_id) REFERENCES employees (employee\_id)

);

CREATE TABLE employee\_education(

employee\_id NUMBER,

education\_id NUMBER,

title VARCHAR2(40),

DEGREE VARCHAR2(40),

institution VARCHAR2(60),

grad\_date DATE,

country\_id NUMBER,

CONSTRAINT pk\_emp\_ed PRIMARY KEY (employee\_id, education\_id),

CONSTRAINT fk\_emp\_ed\_emp FOREIGN KEY (employee\_id) REFERENCES employees(employee\_id),

CONSTRAINT fk\_emp\_country FOREIGN KEY(country\_id) REFERENCES country(country\_id)

);

CREATE TABLE inventory\_count( -- inventory count at the end of the year

inventory\_id NUMBER,

employee\_id NUMBER,

inventory\_date DATE,

film\_id NUMBER,

media\_id NUMBER,

quantity NUMBER,

CONSTRAINT pk\_inventory\_ct PRIMARY KEY (inventory\_id),

CONSTRAINT fk\_inventory\_ct\_emp FOREIGN KEY (employee\_id) REFERENCES employees (employee\_id),

CONSTRAINT fk\_inv\_film2media FOREIGN KEY (film\_id,media\_id) REFERENCES film\_to\_media(film\_id,media\_id)

);

CREATE TABLE orders( --- clients purchasing movies .... orderhdr\_all

order\_id NUMBER DEFAULT seq\_orders.NEXTVAL,

client\_id NUMBER,

sales\_tax\_id NUMBER,

order\_total NUMBER,

shipping\_cost NUMBER,

payment\_type VARCHAR2(20),

supplier\_id NUMBER,

employee\_id NUMBER,

CONSTRAINT pk\_orders PRIMARY KEY (order\_id),

CONSTRAINT fk\_orders\_st FOREIGN KEY (sales\_tax\_id) REFERENCES sales\_taxes(sales\_tax\_id),

CONSTRAINT fk\_orders\_employees FOREIGN KEY (employee\_id) REFERENCES employees(employee\_id),

CONSTRAINT fk\_orders\_cust FOREIGN KEY (client\_id) REFERENCES clients(client\_id),

CONSTRAINT fk\_orders\_supplier FOREIGN KEY (supplier\_id) REFERENCES supplier(supplier\_id)

);

CREATE TABLE order\_items( --- ordertrailer

order\_id NUMBER,

order\_item\_seq NUMBER,

film\_id NUMBER,

sales\_tax\_id NUMBER,

item\_price NUMBER,

item\_desc NUMBER,

item\_value NUMBER,

CONSTRAINT pk\_order\_items PRIMARY KEY (order\_id, order\_item\_seq),

CONSTRAINT fk\_oi\_order FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

CONSTRAINT fk\_oi\_film FOREIGN KEY (film\_id) REFERENCES films(film\_id),

CONSTRAINT fk\_oi\_tax FOREIGN KEY (sales\_tax\_id) REFERENCES sales\_taxes(sales\_tax\_id)

);

CREATE TABLE orders\_status\_all (--- status of the orders - history. We are able to track the status of the order and the changes in the history. Mostly dates

order\_id NUMBER,

order\_seq NUMBER,

order\_status VARCHAR2(1) NOT NULL,

CONSTRAINT pk\_o\_status PRIMARY KEY (order\_id, order\_seq),

CONSTRAINT fk\_orders\_o\_stat FOREIGN KEY (order\_id) REFERENCES orders(order\_id)

);

CREATE TABLE shipments(---relation to order id?

ship\_id NUMBER DEFAULT seq\_shipments.NEXTVAL,

order\_id NUMBER,

company\_id NUMBER,

CONSTRAINT pk\_shipments PRIMARY KEY (ship\_id),

CONSTRAINT fk\_shipment\_order FOREIGN KEY(order\_id) REFERENCES orders(order\_id),

CONSTRAINT fk\_shipment\_comp FOREIGN KEY (company\_id) REFERENCES shipping\_companies(company\_id)

);

CREATE TABLE shipment\_status\_all(

ship\_id NUMBER,

ship\_seq NUMBER,

status\_date DATE,

status VARCHAR2(10) NOT NULL,

CONSTRAINT pk\_ship\_st\_all PRIMARY KEY (ship\_id, ship\_seq),

CONSTRAINT fk\_ship\_stat\_ship FOREIGN KEY (ship\_id) REFERENCES shipments(ship\_id)

);

CREATE TABLE purchase(

purchase\_id NUMBER DEFAULT seq\_purchases.NEXTVAL,

film\_id NUMBER,

media\_id NUMBER,

supplier\_id NUMBER,

CONSTRAINT pk\_purchases PRIMARY KEY (purchase\_id),

CONSTRAINT fk\_purchase\_f2m FOREIGN KEY(film\_id,media\_id) REFERENCES film\_to\_media(film\_id,media\_id),

CONSTRAINT fk\_purchase\_supplier FOREIGN KEY(supplier\_id) REFERENCES supplier(supplier\_id)

); ---- the company is purchasing movie when the stock is low

CREATE TABLE paystubs(

paystub\_id NUMBER,

employee\_id NUMBER,

salary NUMBER,

total\_taxes NUMBER,

income\_tax\_id NUMBER,

CONSTRAINT pk\_paystubs PRIMARY KEY (paystub\_id),

CONSTRAINT fk\_paystubs\_emp FOREIGN KEY (employee\_id) REFERENCES employees(employee\_id),

CONSTRAINT fk\_income\_tax FOREIGN KEY(income\_tax\_id) REFERENCES income\_tax(income\_tax\_id)

); --- contains personnel monthly salary

CREATE TABLE paystubs\_items(

paystub\_id NUMBER,

ps\_seq NUMBER,

description VARCHAR2(50),

CONSTRAINT pk\_ps\_item PRIMARY KEY (paystub\_id, ps\_seq),

CONSTRAINT fk\_ps\_ps\_item FOREIGN KEY (paystub\_id) REFERENCES paystubs (paystub\_id)

);

Changes Made In Tables

1. Added a photo column with blob data type in clients table

Alter Table payment\_details

Add client\_name varchar2(100);