**DBS 301 - Assignment 3 – Section D, WINTER 2018**

**Prof. Nebojsa Conkic**

**TABLES:**

1. **CUSTOMERS**

CREATE TABLE CUSTOMERS(

CUST\_NO NUMBER (25) NOT NULL,

LNAME VARCHAR(25) NOT NULL,

DOB DATE,

ADDRESS VARCHAR(25) ,

CITY VARCHAR (25) NOT NULL,

PROV VARCHAR (25) NOT NULL,

POST\_CODE VARCHAR (25) NOT NULL,

EMAIL VARCHAR(35),

CONSTRAINT CUST\_NO\_PK PRIMARY KEY (CUST\_NO),

CONSTRAINT EMAIL\_UK UNIQUE (EMAIL) );

1. **Orders:**

create table orders(

orderId number(25) not null,

orderDate varchar(25) not null,

orderTotal number(25) not null,

cust\_id number(25) not null,

constraint orderId\_pk primary key (orderId),

constraint cust\_id\_fk foreign key (cust\_id) REFERENCES customers (cust\_no));

1. **PAYMENT**

CREATE TABLE PAYMENT(

ORDER\_ID NUMBER(25) NOT NULL,

CARD\_NO NUMBER (25) NOT NULL,

CARD\_HOLDER VARCHAR(25) NOT NULL,

EXP\_DATE DATE NOT NULL,

CARD\_TYPE VARCHAR (25) NOT NULL,

CONSTRAINT CARD\_NO\_PK PRIMARY KEY (CARD\_NO),

CONSTRAINT ORDER\_ID\_FK FOREIGN KEY (ORDER\_ID) REFERENCES ORDERS (ORDERID),

CONSTRAINT C\_T\_CK CHECK (CARD\_TYPE IN ('A','D','M','V')));

1. **ORDERLINE**

CREATE TABLE ORDERLINE(

ORDER\_ID NUMBER(25) NOT NULL,

LINE# NUMBER (25) NOT NULL,

QTY NUMBER(25) NOT NULL,

ACT\_PRICE DECIMAL(4,2) NOT NULL,

REC\_ID NUMBER (25) NOT NULL,

CONSTRAINT LINE#\_PK PRIMARY KEY (LINE#),

CONSTRAINT O\_ID\_FK FOREIGN KEY (ORDER\_ID) REFERENCES ORDERS (ORDERID),

CONSTRAINT R\_ID\_FK FOREIGN KEY (REC\_ID) REFERENCES RECORDING (REC\_ID),

CONSTRAINT QTY\_CK CHECK (QTY >= 0 ),

CONSTRAINT ACT\_PRICE\_CK CHECK (ACT\_PRICE >= 0 ));

1. **REGION**

CREATE TABLE REGION (

REGION\_ID NUMBER(25) NOT NULL,

REGION\_NAME VARCHAR (25) NOT NULL,

CONSTRAINT REGION\_ID\_PK PRIMARY KEY (REGION\_ID),

CONSTRAINT R\_N\_UK UNIQUE (REGION\_NAME));

1. **LABEL**

CREATE TABLE LABEL (

LABEL\_ID NUMBER(25) NOT NULL,

LABEL\_NAME VARCHAR (25) NOT NULL,

LABEL\_URL VARCHAR(512) NOT NULL,

CONSTRAINT LABEL\_ID\_PK PRIMARY KEY (LABEL\_ID),

CONSTRAINT LABEL\_NAME\_UK UNIQUE (LABEL\_NAME),

CONSTRAINT URL\_UK UNIQUE (LABEL\_URL));

1. **CATEGORY**

CREATE TABLE CATEGORY (

CAT\_ID NUMBER(25) NOT NULL,

CAT\_DESC VARCHAR (25) NOT NULL,

CONSTRAINT CAT\_ID\_PK PRIMARY KEY (CAT\_ID),

CONSTRAINT CAT\_DESC\_UK UNIQUE (CAT\_DESC));

1. **SALES REPRESENTATIVE**

CREATE TABLE SALES\_REP(

LABEL\_ID NUMBER(25) NOT NULL,

REP\_ID NUMBER(25) NOT NULL,

LNAME VARCHAR(25) NOT NULL,

FNAME VARCHAR (25) NOT NULL,

PHONE\_NO NUMBER(25) NOT NULL,

EMAIL VARCHAR(25),

REGION\_ID NUMBER(25) NOT NULL,

CONSTRAINT REP\_ID\_PK PRIMARY KEY (REP\_ID),

CONSTRAINT L\_ID\_FK FOREIGN KEY (LABEL\_ID) REFERENCES LABEL (LABEL\_ID),

CONSTRAINT RG\_ID\_FK FOREIGN KEY (REGION\_ID) REFERENCES REGION (REGION\_ID),

CONSTRAINT PH\_UK UNIQUE (PHONE\_NO),

CONSTRAINT EM\_UK UNIQUE (EMAIL));

1. **RECORDING**

CREATE TABLE RECORDING (

REC\_ID NUMBER(25) NOT NULL,

TITLE VARCHAR (25) NOT NULL,

ARTIST VARCHAR (25) NOT NULL,

SELL\_PRICE DECIMAL(4,2) NOT NULL,

QTY\_IN\_STOCK NUMBER(25),

CAT\_ID NUMBER(25) NOT NULL,

LABEL\_ID NUMBER(25) NOT NULL,

CONSTRAINT REC\_ID\_PK PRIMARY KEY (REC\_ID),

CONSTRAINT LABEL\_ID\_FK FOREIGN KEY (LABEL\_ID) REFERENCES LABEL (LABEL\_ID),

CONSTRAINT CAT\_ID\_FK FOREIGN KEY (CAT\_ID) REFERENCES CATEGORY (CAT\_ID),

CONSTRAINT QIS\_CK CHECK (QTY\_IN\_STOCK > = 0),

CONSTRAINT SP\_CK CHECK (SELL\_PRICE > = 0));

1. **RECORDING HISTORY**

CREATE TABLE REC\_HIST(

REC\_ID NUMBER(25) NOT NULL,

PRICE\_ID NUMBER(25) NOT NULL,

PRICE DECIMAL(4,2) NOT NULL,

START\_DATE DATE NOT NULL,

CONSTRAINT P\_ID\_PK PRIMARY KEY (PRICE\_ID),

CONSTRAINT RECORD\_ID\_FK FOREIGN KEY (REC\_ID) REFERENCES RECORDING (REC\_ID));

**Inserts:**

1. **Customers**

INSERT INTO CUSTOMERS VALUES

('126330166', 'Ahmed', '1999-02-25', '1435 Woodbine Ave', 'Toronto', 'ON', 'M4C4G8', 'msyahmed@myseneca.ca' );

INSERT INTO CUSTOMERS VALUES

('123456893', 'Yusuf', '1996-01-25', '1435 Woodbine Ave', 'Toronto', 'ON', 'M4C6G8', '123@myseneca.ca' );

INSERT INTO CUSTOMERS VALUES

('12345893', 'Ali', '1991-05-22', '14 Lumsden Ave', 'Scarborough', 'ON', 'M2C6G8', '1223@myseneca.ca' );

1. **Orders**

INSERT INTO ORDERS VALUES

('123', '2009-05-22', '14', '126330166' );

INSERT INTO ORDERS VALUES

('211', '2009-02-22', '11', '123456893' );

INSERT INTO ORDERS VALUES

('11', '2001-04-12', '121', '12345893' );

1. **Label**

INSERT INTO LABEL VALUES

('1', 'TSERIES', 'www.tseries.com');

INSERT INTO LABEL VALUES

('2', 'SONY', 'www.sonymusic.ca');

INSERT INTO LABEL VALUES

('3', 'ZEE', 'www.zee.com');

1. **Payment**

INSERT INTO PAYMENT VALUES

('123', '123456789', 'Zia', '2019-02-02', 'V');

INSERT INTO PAYMENT VALUES

('211', '123416789', 'Ali', '2029-03-02', 'M');

INSERT INTO PAYMENT VALUES

('11', '123156789’, 'Yusuf', '2025-06-07', 'A');

1. **Region**

INSERT INTO REGION VALUES

('1', 'TORONTO' );

INSERT INTO REGION VALUES

('2', 'MEXICO' );

INSERT INTO REGION VALUES

('3', 'WATERLOO' );

1. **Category**

INSERT INTO CATEGORY VALUES

('1', 'ROCK' );

INSERT INTO CATEGORY VALUES

('2', 'POP' );

INSERT INTO CATEGORY VALUES

('3', 'Alt Rock' );

1. **RECORDING**

INSERT INTO RECORDING VALUES

('1', 'Jal', 'Atif Aslam', '10', '5', '3', '1' );

INSERT INTO RECORDING VALUES

('2', 'RiseUp', 'Yusuf', '8', '8', '2', '2' );

INSERT INTO RECORDING VALUES

('3', 'Rock On', 'Shery', '15', '3', '1', '3' );

1. **Sales Representative**

INSERT INTO SALES\_REP VALUES

('1', '1', 'Aslam', 'Atif', '923004505781', 'atif@gmail.com', '1' );

INSERT INTO SALES\_REP VALUES

('2', '2', 'Azmat', 'Ali', '923024505781', 'ali@gmail.com', '2' );

INSERT INTO SALES\_REP VALUES

('3', '3', 'Muhammad', 'Ahmed', '2049144074', 'shery@gmail.com', '3' );

1. **Recording History**

INSERT INTO REC\_HIST VALUES

('1', '1', '10', '2004-04-26' );

INSERT INTO REC\_HIST VALUES

('2', '2', '8', '2003-03-12' );

INSERT INTO REC\_HIST VALUES

('3', '3', '15', '2019-05-21' );

1. **Order Line**

INSERT INTO ORDERLINE VALUES

('123', '1', '10', '10', '1' );

INSERT INTO ORDERLINE VALUES

('211', '2', '12', '3', '2' );

INSERT INTO ORDERLINE VALUES

('11', '3', '60', '55', '3' );

**VIEW**

CREATE VIEW Cust\_Cat\_AR AS(

SELECT C.LNAME, C.CITY, DOB, R.ARTIST, R.TITLE

FROM CUSTOMERS C, RECORDING R, ORDERS O, ORDERLINE L, CATEGORY B

WHERE C.CUST\_NO = O.CUST\_ID

AND O.ORDERID = L.ORDER\_ID

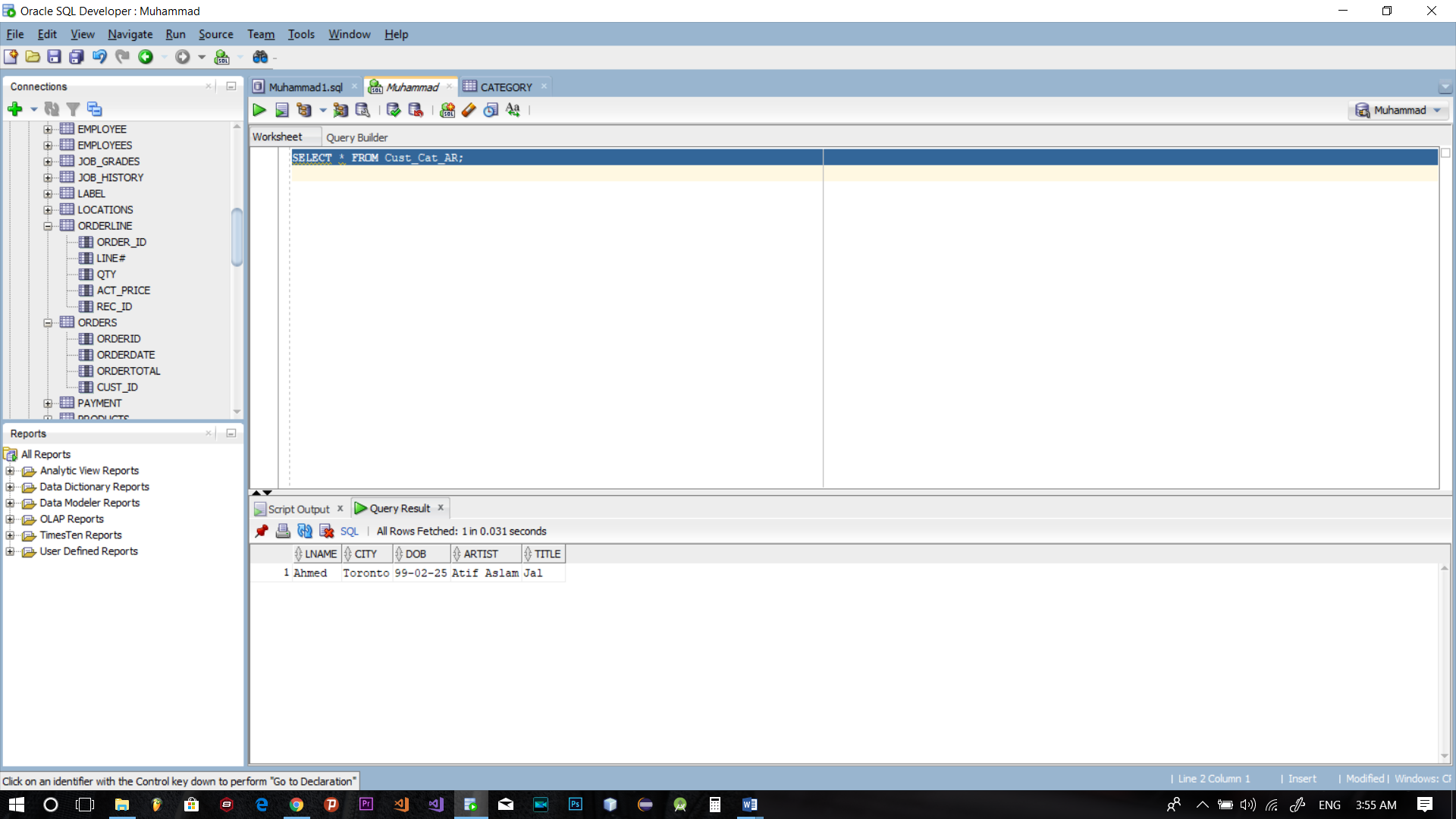
AND L.REC\_ID = R.REC\_ID

AND R.CAT\_ID = B.CAT\_ID

AND B.CAT\_DESC = 'Alt Rock'

);

**SELECT \* FROM Cust\_Cat\_AR;**



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