**Create Tables**

**and**

**Loading Data**

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# Introduction

After creating the database and related tablespaces by oracle 11g we are ready to create the necessary objects inside the database such as: Tables, Sequences, Users, Profiles, Roles, etc.

According to Travel Experts Agency’s documents and data three kinds of are identifiable; Temporary tables, Code tables, and Main tables.

In each database, it is necessary we have a table owner user who owns all tables and objects. The name of this user in Travelxp database is Towner.

## Temporary Tables

Temporary Tables are created in the adhoc tablespace and are used for loading data into the main tables. There are three tables (Customer\_Data, Sale\_Data, Supplier\_Data) in the adhoc tablespace based on the agency’s excel sheets of data.

## Code Tables

Code tables are included base information which translate the codes found in the Travel Experts Agency sample data, such as:

**Destination ID:**

|  |  |
| --- | --- |
| Destination ID (code) | Destination ID |
| MED | Mediterranean |
| ANZ | Australia & New Zealand |
| AFR | Africa |
| ASIA | Asia |
| SA | South America |
| EU | Europe & United Kingdom |
| MEAST | Middle East |
| SP | South Pacific |
| NA | North America |
| OTHR | Other |

**Travel Agents:**

|  |  |  |
| --- | --- | --- |
| Agent ID | First Name | Last Name |
| JD | Janet | Delton |
| JL | Judy | Lisle |
| DR | Dennis C. | Reynolds |
| JC | John | Coville |
| JD | Janice W. | Dahl |
| BD | Bruce J. | Dixon |
| BJ | Beverly S. | Jones |
| JM | Jane | Merrill |
| BP | Brian S. | Peterson |

**Class Type:**

|  |  |
| --- | --- |
| Class Type (code) | Class Type |
| FST | First Class |
| BSN | Business |
| ECN | Economy |
| OCNV | Ocean View |
| INT | Interior |
| DLX | Deluxe |
| DBL | Double |
| SNG | Single |

**Affiliation:**

|  |  |
| --- | --- |
| Affiliation | Description |
| ACTA | Association of Canadian Travel Agents |
| ACTANEW |  |
| ACTANEWP |  |
| ACTAPGY |  |
| NEW |  |
| NEWPGY |  |
| PGY |  |

**Product Category:**

|  |  |
| --- | --- |
| Product Category | Product ID range |
| Airline Consolidators | 100-149 |
| Airlines | 150-199 |
| Attractions | 200-249 |
| Car rentals | 250-299 |
| Cruise lines | 300-349 |
| Hotel reps & chains in Canada | 350-399 |
| Motor Coach Tour Operators | 400-449 |
| Railroads | 450-499 |
| Tour Operators/Wholesales | 500-549 |
| Travel insurance | 550-599 |
| Yacht & Boat Charters | 600-649 |

**Trip Type:**

|  |  |
| --- | --- |
| Trip Type (code) | Trip Type |
| B | Business |
| L | Leisure |
| G | Group |

Based on these information and other requirements 9 code tables must be created as follows:

* Destination Table
* Class\_Type Table
* Affiliation Table
* Trip\_Type Table
* Product\_Category Table
* Agent\_Emp \_Table
* Agent\_Office
* Payment\_Table
* Tax\_Table

## Main Tables

According to the data model, there are other tables that are listed below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NO | Table Name | Table Type | Data Loading Method | Rows # | Tablespace |
| 1 | Destination | Code Table | Control File | 10 | User\_Data |
| 2 | Class\_Type | Code Table | Control File | 8 | User\_Data |
| 3 | Affiliation | Code Table | Control File | 7 | User\_Data |
| 4 | Trip\_Type | Code Table | Insert-Value | 3 | User\_Data |
| 5 | Product\_Category | Code Table | Control File | 11 | User\_Data |
| 6 | Agent\_Emp | Code Table | Control File | 9 | User\_Data |
| 7 | Agent\_Office | Code Table | Insert-Value | 1 | User\_Data |
| 8 | Tax | Code Table | Insert-Value | 1 Sample | User\_Data |
| 9 | Customer | Main Table | Insert-Select | 270 | User\_Data |
| 10 | Credit\_Card | Main Table | Control File | 232 | User\_Data |
| 11 | Traveller | Main Table | Insert-Select | 1341 | User\_Data |
| 12 | Booking | Main Table | Insert-Select | 1341 | User\_Data |
| 13 | Itin\_Invoice | Main Table | Insert-Select | 1341 | User\_Data |
| 14 | Supplier | Main Table | Insert-Select | 1193 | User\_Data |
| 15 | Product | Main Table | Control File | 120 | User\_data |
| 15 | Customer\_Data | Temp Table | Control File | 270 | Adhoc |
| 16 | Supplier\_Product | Temp Table | Control File | 1193 | Adhoc |

**Table 1-1** List of all tables and related information

## Loading Data

There are two methods for loading data into these tables; *Control File, Insert Statement*

**Control File** is used for tables which have less than 10 rows. It is also used when data is being loaded from an external file (.csv file) to a table.

**Insert Statement** is another method that can be used for loading data into the tables from an existing table in the database. For instance in order to load data from the temporary tables to the main tables, or any table that has less than 5 rows, insert statement is used.

**Create Table Owner**

**User**

# Create Table Owner User, Role, Profile

## Create Table Owner Role

SET echo on

REM ==================================================================

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SOHA HEMMATI \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM ==================================================================

REM ================== INITIAL FORMAT SETTING ========================

SET PAGESIZE 40

SET LINESIZE 120

SET FEEDBACK ON

SET VERIFY ON

--TTITLE '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CREATE USER TABLE OWNER \*\*\*\*\*\*\*\*\*\*\*\*\*'

--BTITLE '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* By Soha Hemmati \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

COL PROFILE FOR A20

COL RESOURCE\_NAME FOR A30

COL LIMIT FOR A20

COL USERNAME FOR A20

COL ACCOUNT\_STATUS FOR A20

COL PROFILE FOR A18

COL USERNAME FOR A10

COL ACCOUNT\_STATUS FOR A16

COL DEFAULT\_TABLESPACE FOR A20

COL TEMPORARY\_TABLESPACE FOR A20

COL PROFILE FOR A20

REM ==================================== CREATE TABLE OWNER ROLE ==============================

DROP ROLE towner\_role;

CREATE ROLE towner\_role;

SELECT \*

FROM DBA\_ROLES

WHERE ROLE LIKE '%TOWNER%';

REM======================= GRANT PRIVILEGES TO TOWNER ROLE ======================

Grant CREATE SESSION to towner\_role;

Grant CREATE TABLE to towner\_role;

Grant CREATE CLUSTER to towner\_role;

Grant CREATE SYNONYM to towner\_role;

Grant CREATE VIEW to towner\_role;

Grant CREATE SEQUENCE to towner\_role;

Grant CREATE DATABASE LINK to towner\_role;

Grant CREATE PROCEDURE to towner\_role;

Grant CREATE TRIGGER to towner\_role;

Grant CREATE TYPE to towner\_role;

Grant CREATE OPERATOR to towner\_role;

Grant CREATE INDEXTYPE to towner\_role;

Grant BACKUP ANY TABLE to towner\_role;

SELECT \*

FROM ROLE\_SYS\_PRIVS

WHERE ROLE LIKE '%TOWNER%';

ROLE PRIVILEGE ADM

------------------------------ ---------------------------------------- -----------

TOWNER\_ROLE ALTER SESSION NO

TOWNER\_ROLE CREATE VIEW NO

TOWNER\_ROLE CREATE OPERATOR NO

TOWNER\_ROLE CREATE SESSION NO

TOWNER\_ROLE CREATE TYPE NO

TOWNER\_ROLE CREATE SYNONYM NO

TOWNER\_ROLE CREATE SEQUENCE NO

TOWNER\_ROLE CREATE DATABASE LINK NO

TOWNER\_ROLE CREATE INDEXTYPE NO

TOWNER\_ROLE BACKUP ANY TABLE NO

TOWNER\_ROLE CREATE TABLE NO

TOWNER\_ROLE CREATE CLUSTER NO

TOWNER\_ROLE CREATE PROCEDURE NO

TOWNER\_ROLE CREATE TRIGGER NO

14 rows selected.

## Create Table Owner Profile

SQL> DROP PROFILE towner\_profile;

SQL> SHOW PARAMETER RESOURCE\_LIMIT

NAME TYPE VALUE

------------------------------------ ----------- ----------------

resource\_limit boolean FALSE

SQL> ALTER SYSTEM SET RESOURCE\_LIMIT = TRUE;

**REM** " IN THE PFILE ADD [Resource\_Limit=True] BECAUSE ABOVE STATEMENT ONLY CHANGE CURRENT SESSION. "

SQL> SHOW PARAMETER RESOURCE\_LIMIT

**REM** RUN SCRIPT utlpwdmg.sql from C:\oracle\product\11.2.0\dbhome\_1\RDBMS\ADMIN

SQL> @C:\oracle\product\11.2.0\dbhome\_1\RDBMS\ADMIN\utlpwdmg.sql

REM ========================== CREATE TABLE OWNER PROFILE ==========================

CREATE PROFILE towner\_profile LIMIT

CPU\_PER\_SESSION 10000

CPU\_PER\_CALL 3000

CONNECT\_TIME 480

IDLE\_TIME 10

SESSIONS\_PER\_USER 4

LOGICAL\_READS\_PER\_SESSION DEFAULT

LOGICAL\_READS\_PER\_CALL 20000

COMPOSITE\_LIMIT 5000000

PASSWORD\_LIFE\_TIME 30

PASSWORD\_GRACE\_TIME 5

PASSWORD\_REUSE\_MAX 10

PASSWORD\_REUSE\_TIME 60

PASSWORD\_LOCK\_TIME 5/1440

FAILED\_LOGIN\_ATTEMPTS 3

PASSWORD\_VERIFY\_FUNCTION verify\_function\_11g;

SELECT \*

FROM DBA\_PROFILES

WHERE PROFILE LIKE '%TOWNER%';

PROFILE RESOURCE\_NAME RESOURCE LIMIT

--------------- ------------------------------- -------------- --------------

TOWNER\_PROFILE COMPOSITE\_LIMIT KERNEL 5000000

TOWNER\_PROFILE SESSIONS\_PER\_USER KERNEL 4

TOWNER\_PROFILE CPU\_PER\_SESSION KERNEL 10000

TOWNER\_PROFILE CPU\_PER\_CALL KERNEL 3000

TOWNER\_PROFILE LOGICAL\_READS\_PER\_SESSION KERNEL DEFAULT

TOWNER\_PROFILE LOGICAL\_READS\_PER\_CALL KERNEL 1000

TOWNER\_PROFILE IDLE\_TIME KERNEL 10

TOWNER\_PROFILE CONNECT\_TIME KERNEL 480

TOWNER\_PROFILE PRIVATE\_SGA KERNEL DEFAULT

TOWNER\_PROFILE FAILED\_LOGIN\_ATTEMPTS PASSWORD 3

TOWNER\_PROFILE PASSWORD\_LIFE\_TIME PASSWORD 30

TOWNER\_PROFILE PASSWORD\_REUSE\_TIME PASSWORD 60

TOWNER\_PROFILE PASSWORD\_REUSE\_MAX PASSWORD 10

TOWNER\_PROFILE PASSWORD\_LOCK\_TIME PASSWORD .0034

TOWNER\_PROFILE PASSWORD\_GRACE\_TIME PASSWORD 5

16 rows selected.

Create Table Owner USER

REM =========================== CREATE TABLE\_OWNER USER =============================

DROP USER towner;

CREATE USER towner

IDENTIFIED BY travelxp123

DEFAULT TABLESPACE user\_data

TEMPORARY TABLESPACE temp

QUOTA 200M ON user\_data

QUOTA 100M ON adhoc

QUOTA 50M ON indx

QUOTA 20M ON read\_only

PASSWORD EXPIRE

ACCOUNT LOCK

PROFILE towner\_profile;

**User Verification**

REM =============================== USER VERIFICATION ===============================

SQL> SELECT USERNAME, ACCOUNT\_STATUS, EXPIRY\_DATE, DEFAULT\_TABLESPACE,

TEMPORARY\_TABLESPACE,PROFILE, AUTHENTICATION\_TYPE

FROM DBA\_USERS

WHERE USERNAME='TOWNER';

USERNAME ACCOUNT\_STATUS EXPIRY\_DA DEFAULT\_TBS TEMP\_TBS PROFILE AUTHENTI

-------- -------------- --------- ----------- ---------- -------- -----------

TOWNER EXPIRED & LOCKED 21-APR-11 USER\_DATA TEMP TOWNER\_PROFILE PASSWORD

SQL> SELECT TABLESPACE\_NAME, USERNAME, MAX\_BYTES

FROM dba\_ts\_quotas;

TABLESPACE\_NAME USERNAME MAX\_BYTES

--------------- -------------------- -----------------

READ\_ONLY TOWNER 20971520

USER\_DATA TOWNER 209715200

INDX TOWNER 52428800

ADHOC TOWNER 104857600

USER\_DATA AGENCY 20971520

SYSAUX APPQOSSYS -1

SYSTEM AGENCY 5242880

7 rows selected.

SQL> CONN towner/travelxp456

SQL> ALTER USER TOWNER ACCOUNT UNLOCK;

SQL> CONN towner/travelxp456;

SQL> SHOW USER;

**Temporary Tables**

**In**

**Adhoc Tablespace**

# Create Temporary Tables in Adhoc Tablespace

## Create CUSTOMER\_DATA Table in Adhoc Tablespace

REM ================== INITIAL FORMAT SETTING =============================

SET PAGESIZE 30

SET LINESIZE 80

SET FEEDBACK ON

SET VERIFY ON

REM ====================================================================

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SOHA HEMMATI \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM ====================================================================

REM ==================== INITIAL FORMAT SETTING ==========================

SET PAGESIZE 40

SET LINESIZE 120

SET FEEDBACK ON

SET VERIFY ON

--TTITLE '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CRAETE TABLES IN ADHOC \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

--BTITLE '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* By Soha Hemmati \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

COL TABLE\_NAME FOR A15

COL TABLESPACE\_NAME FOR A15

COL OWNER FOR A15

REM======================== CREATE CUSTOMER\_DATA TABLE ================

CONN towner/travelxp456

Drop Table customer\_data;

Drop Table supplier\_data;

Drop Table sale\_data;

PURGE RECYCLEBIN;

CREATE TABLE customer\_data(

cust\_id NUMBER(5) PRIMARY KEY,

fname VARCHAR2(15) NOT NULL,

Lname VARCHAR2(15) NOT NULL,

agent VARCHAR2(3),

email VARCHAR2(30),

home\_phone VARCHAR2(15),

B\_PHONE VARCHAR2(15),

birth\_date DATE,

address VARCHAR2(50),

city VARCHAR2(10),

postal\_code VARCHAR2(10),

province VARCHAR2(10),

country VARCHAR2(10))

TABLESPACE ADHOC;

DESC CUSTOMER\_DATA ;

## Loading Data to CUSTOMER\_DATA Table by Control File

--================================ CUSTOMER\_DATA CONTROL FILE ==============================

--sqlldr towner/travelxp456 control='C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.ctl', log='C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.log'

options(skip=1,direct=true)

LOAD DATA

INFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customerData.csv'

BADFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.dsc'

TRUNCATE INTO TABLE customer\_data

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(cust\_id INTEGER EXTERNAL ,

fname CHAR ,

Lname CHAR ,

agent CHAR ,

email CHAR ,

home\_phone CHAR , -- THE EXACT NUMBER OF HOME\_PHONE MUST BE 10 BUT 2 RECORDS ARE MORE THEN 10

b\_phone CHAR ,

birth\_date DATE "DD/MM/YYYY",

address CHAR ,

city CHAR ,

postal\_code CHAR ,

province CHAR ,

country CHAR

)

## CUSTOMER\_DATA Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Fri Dec 2 20:44:27 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.ctl

Data File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customerData.csv

Bad File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.bad

Discard File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\customer\_adhoc\customer.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 1

Errors allowed: 50

Continuation: none specified

Path used: Direct

Table CUSTOMER\_DATA, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

CUST\_ID FIRST \* , O(") CHARACTER

FNAME NEXT \* , O(") CHARACTER

LNAME NEXT \* , O(") CHARACTER

AGENT NEXT \* , O(") CHARACTER

EMAIL NEXT \* , O(") CHARACTER

HOME\_PHONE NEXT \* , O(") CHARACTER

B\_PHONE NEXT \* , O(") CHARACTER

BIRTH\_DATE NEXT \* , O(") DATE DD/MM/YYYY

ADDRESS NEXT \* , O(") CHARACTER

CITY NEXT \* , O(") CHARACTER

POSTAL\_CODE NEXT \* , O(") CHARACTER

PROVINCE NEXT \* , O(") CHARACTER

COUNTRY NEXT \* , O(") CHARACTER

The following index(es) on table CUSTOMER\_DATA were processed:

index TOWNER.SYS\_C003647 loaded successfully with 270 keys

Table CUSTOMER\_DATA:

270 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Date cache:

Max Size: 1000

Entries : 108

Hits : 1

Misses : 0

Bind array size not used in direct path.

Column array rows : 5000

Stream buffer bytes: 256000

Read buffer bytes: 1048576

Total logical records skipped: 1

Total logical records read: 270

Total logical records rejected: 0

Total logical records discarded: 0

Total stream buffers loaded by SQL\*Loader main thread: 1

Total stream buffers loaded by SQL\*Loader load thread: 0

Run began on Fri Dec 02 20:44:27 2016

Run ended on Fri Dec 02 20:44:27 2016

Elapsed time was: 00:00:00.28

CPU time was: 00:00:00.11

## Create SALE\_DATA Table in Adhoc Tablespace

ET PAGESIZE 30

SET LINESIZE 80

SET FEEDBACK ON

SET VERIFY ON

REM ==================================== CREATE SALE\_DATA TABLE ==============================

CREATE TABLE sale\_data(

sale date,

cust\_id NUMBER(10),

itinerary\_id NUMBER(10),

itinerary\_num NUMBER(10),

emp\_num NUMBER(5),

agent CHAR(3),

booking\_id NUMBER(10),

booking\_num VARCHAR2(20),

product\_category NUMBER(5),

product\_supplier\_id NUMBER(10),

supplier\_office CHAR(2),

trip\_start date,

trip\_end date,

class VARCHAR2(5),

num\_of\_travelers NUMBER(3),

product\_id NUMBER(10),

product VARCHAR2(50),

description VARCHAR2(50),

destination VARCHAR2(35),

dest\_id varchar2(5),

credit\_card VARCHAR2(10),

expiry\_date date,

card\_number VARCHAR2(20),

billing\_date date,

bill\_description VARCHAR2(15),

base\_price NUMBER(10),

total\_price NUMBER(8,2),

billed\_amt NUMBER(8,2),

agency\_fee\_code char(3),

agency\_fee\_amount NUMBER(5))

TABLESPACE ADHOC;

DESC SALE\_DATA;

Name Null? Type

----------------------------------------- -------- ---------------------

SALE DATE

CUST\_ID NUMBER(10)

ITINERARY\_ID NUMBER(10)

ITINERARY\_NUM NUMBER(10)

EMP\_NUM NUMBER(5)

AGENT CHAR(3)

BOOKING\_ID NUMBER(10)

BOOKING\_NUM VARCHAR2(20)

PRODUCT\_CATEGORY NUMBER(5)

PRODUCT\_SUPPLIER\_ID NUMBER(10)

SUPPLIER\_OFFICE CHAR(2)

TRIP\_START DATE

TRIP\_END DATE

CLASS VARCHAR2(5)

NUM\_OF\_TRAVELERS NUMBER(3)

PRODUCT\_ID NUMBER(10)

PRODUCT VARCHAR2(50)

DESCRIPTION VARCHAR2(50)

DESTINATION VARCHAR2(35)

DEST\_ID VARCHAR2(5)

CREDIT\_CARD VARCHAR2(10)

EXPIRY\_DATE DATE

CARD\_NUMBER VARCHAR2(20)

BILLING\_DATE DATE

BILL\_DESCRIPTION VARCHAR2(15)

BASE\_PRICE NUMBER(10)

TOTAL\_PRICE NUMBER(8,2)

BILLED\_AMT NUMBER(8,2)

AGENCY\_FEE\_CODE VARCHAR2(5)

AGENCY\_FEE\_AMOUNT NUMBER(5)

AGENCY\_COMMISSION NUMBER(8,2)

REM =================== CLEARING SETTING ===============================

TTITLE OFF

BTITLE OFF

SET linesize 80

SET Long 80

SET FEEDBACK OFF

SET VERIFY OFF

SET ECHO OFF

SPOOL OFF

## Loading Data to SALE\_DATA Table by Control File

--sqlldr towner/travelxp456 control='C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.clt', log='C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.log'

options(skip=1,direct=true)

LOAD DATA

INFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\SaleData.csv'

BADFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.dsc'

TRUNCATE

INTO TABLE sale\_data

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(sale date "DD/MM/YYYY",

cust\_id INTEGER EXTERNAL,

itinerary\_id INTEGER EXTERNAL,

itinerary\_num INTEGER EXTERNAL,

emp\_num INTEGER EXTERNAL,

agent CHAR,

booking\_id INTEGER EXTERNAL,

booking\_num CHAR,

product\_category INTEGER EXTERNAL,

product\_supplier\_id INTEGER EXTERNAL,

supplier\_office CHAR,

trip\_start date "DD/MM/YYYY",

trip\_end date "DD/MM/YYYY",

class CHAR,

num\_of\_travelers INTEGER EXTERNAL,

product\_id INTEGER EXTERNAL,

product CHAR,

description CHAR,

destination CHAR,

dest\_id CHAR,

credit\_card CHAR,

expiry\_date date "DD/MM/YYYY",

card\_number CHAR,

billing\_date date "DD/MM/YYYY",

bill\_description CHAR ,

base\_price DECIMAL EXTERNAL,

total\_price DECIMAL EXTERNAL,

billed\_amt DECIMAL EXTERNAL,

agency\_fee\_code char,

agency\_fee\_amount INTEGER EXTERNAL)

## SALE\_DATA Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Mon Dec 5 20:31:42 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.clt

Data File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\SaleData.csv

Bad File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.bad

Discard File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\sale\_adhoc\Sale.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 1

Errors allowed: 50

Continuation: none specified

Path used: Direct

Table SALE\_DATA, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

SALE FIRST \* , O(") DATE DD/MM/YYYY

CUST\_ID NEXT \* , O(") CHARACTER

ITINERARY\_ID NEXT \* , O(") CHARACTER

ITINERARY\_NUM NEXT \* , O(") CHARACTER

EMP\_NUM NEXT \* , O(") CHARACTER

AGENT NEXT \* , O(") CHARACTER

BOOKING\_ID NEXT \* , O(") CHARACTER

BOOKING\_NUM NEXT \* , O(") CHARACTER

PRODUCT\_CATEGORY NEXT \* , O(") CHARACTER

PRODUCT\_SUPPLIER\_ID NEXT \* , O(") CHARACTER

SUPPLIER\_OFFICE NEXT \* , O(") CHARACTER

TRIP\_START NEXT \* , O(") DATE DD/MM/YYYY

TRIP\_END NEXT \* , O(") DATE DD/MM/YYYY

CLASS NEXT \* , O(") CHARACTER

NUM\_OF\_TRAVELERS NEXT \* , O(") CHARACTER

PRODUCT\_ID NEXT \* , O(") CHARACTER

PRODUCT NEXT \* , O(") CHARACTER

DESCRIPTION NEXT \* , O(") CHARACTER

DESTINATION NEXT \* , O(") CHARACTER

DEST\_ID NEXT \* , O(") CHARACTER

CREDIT\_CARD NEXT \* , O(") CHARACTER

EXPIRY\_DATE NEXT \* , O(") DATE DD/MM/YYYY

CARD\_NUMBER NEXT \* , O(") CHARACTER

BILLING\_DATE NEXT \* , O(") DATE DD/MM/YYYY

BILL\_DESCRIPTION NEXT \* , O(") CHARACTER

BASE\_PRICE NEXT \* , O(") CHARACTER

TOTAL\_PRICE NEXT \* , O(") CHARACTER

BILLED\_AMT NEXT \* , O(") CHARACTER

AGENCY\_FEE\_CODE NEXT \* , O(") CHARACTER

AGENCY\_FEE\_AMOUNT NEXT \* , O(") CHARACTER

Table SALE\_DATA:

1340 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Date conversion cache disabled due to overflow (default size: 1000)

Bind array size not used in direct path.

Column array rows : 5000

Stream buffer bytes: 256000

Read buffer bytes: 1048576

Total logical records skipped: 1

Total logical records read: 1340

Total logical records rejected: 0

Total logical records discarded: 0

Total stream buffers loaded by SQL\*Loader main thread: 1

Total stream buffers loaded by SQL\*Loader load thread: 0

Run began on Mon Dec 05 20:31:42 2016

Run ended on Mon Dec 05 20:31:43 2016

Elapsed time was: 00:00:01.66

CPU time was: 00:00:00.14

## Create SUPPLIER\_DATA Table in Adhoc

REM ==================================================================

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SOHA HEMMATI \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM ==================================================================

REM ==================== INITIAL FORMAT SETTING ========================

SET PAGESIZE 30

SET LINESIZE 80

SET FEEDBACK ON

SET VERIFY ON

COL TABLE\_NAME FOR A15

COL TABLESPACE\_NAME FOR A15

COL OWNER FOR A15

REM =============== CREATE SUPPLIER\_DATA TABLE =========================

CREATE TABLE supplier\_data(

product\_supplier NUMBER(5),

product\_category NUMBER(5),

supplier\_office CHAR(5),

product\_description VARCHAR2(30),

Contact\_Name VARCHAR2(30),

company VARCHAR2(75),

address1 VARCHAR2(100),

address2 VARCHAR2(100),

city VARCHAR2(30),

prov\_state VARCHAR2(50),

zip\_postal VARCHAR2(10),

country VARCHAR2(30),

PHONE VARCHAR2(15),

fax VARCHAR2(15),

email VARCHAR2(40),

web VARCHAR2(40),

represents VARCHAR2(50),

affiliation VARCHAR2(30))

TABLESPACE ADHOC;

Table created.

SQL> DESC SUPPLIER\_DATA;

Name Null? Type

----------------------------------------- -------- ---------------------

PRODUCT\_SUPPLIER NUMBER(5)

PRODUCT\_CATEGORY NUMBER(5)

SUPPLIER\_OFFICE CHAR(2)

PRODUCT\_DESCRIPTION VARCHAR2(30)

CONTACT\_NAME VARCHAR2(30)

COMPANY VARCHAR2(75)

ADDRESS1 VARCHAR2(30)

ADDRESS2 VARCHAR2(30)

CITY VARCHAR2(25)

PROV\_STATE VARCHAR2(5)

ZIP\_POSTAL VARCHAR2(10)

COUNTRY VARCHAR2(20)

PHONE VARCHAR2(15)

FAX VARCHAR2(15)

EMAIL VARCHAR2(40)

WEB VARCHAR2(40)

REPRESENTS VARCHAR2(30)

AFFILIATION VARCHAR2(15)

## Loading Data to SUPPLIER\_DATA Table by Control File

--============================ SUPPLIER\_DATA CONTROL FILE ======================================

--sqlldr towner/travelxp456 control='C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\supplier\_data.ctl' log='C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\supplier\_data.log'

options(skip=1,direct=true)

LOAD DATA

INFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\SupplierData.csv'

BADFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\SupplierData.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\SupplierData.dsc'

TRUNCATE INTO TABLE supplier\_data

FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(product\_supplier INTEGER EXTERNAL,

product\_category INTEGER EXTERNAL,

supplier\_office CHAR,

product\_description CHAR,

Contact\_Name CHAR,

company CHAR,

address1 CHAR,

address2 CHAR,

city CHAR,

prov\_state CHAR,

zip\_postal CHAR,

country CHAR,

phone CHAR,

fax CHAR,

email CHAR,

web CHAR,

represents CHAR,

affiliation CHAR)

**SUPPLER\_DATA Log File**

SQL\*Loader: Release 11.2.0.2.0 - Production on Sun Dec 4 14:05:56 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\supplier\_data.ctl

Data File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\SupplierData.csv

Bad File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\SupplierData.bad

Discard File: C:\Users\Nick\Desktop\471project\adhoctables\_loading\supplier\_data\_adhoc\SupplierData.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 1

Errors allowed: 50

Continuation: none specified

Path used: Direct

Table SUPPLIER\_DATA, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

PRODUCT\_SUPPLIER FIRST \* , O(") CHARACTER

PRODUCT\_CATEGORY NEXT \* , O(") CHARACTER

SUPPLIER\_OFFICE NEXT \* , O(") CHARACTER

PRODUCT\_DESCRIPTION NEXT \* , O(") CHARACTER

CONTACT\_NAME NEXT \* , O(") CHARACTER

COMPANY NEXT \* , O(") CHARACTER

ADDRESS1 NEXT \* , O(") CHARACTER

ADDRESS2 NEXT \* , O(") CHARACTER

CITY NEXT \* , O(") CHARACTER

PROV\_STATE NEXT \* , O(") CHARACTER

ZIP\_POSTAL NEXT \* , O(") CHARACTER

COUNTRY NEXT \* , O(") CHARACTER

PHONE NEXT \* , O(") CHARACTER

FAX NEXT \* , O(") CHARACTER

EMAIL NEXT \* , O(") CHARACTER

WEB NEXT \* , O(") CHARACTER

REPRESENTS NEXT \* , O(") CHARACTER

AFFILIATION NEXT \* , O(") CHARACTER

Table SUPPLIER\_DATA:

1193 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Bind array size not used in direct path.

Column array rows : 5000

Stream buffer bytes: 256000

Read buffer bytes: 1048576

Total logical records skipped: 1

Total logical records read: 1193

Total logical records rejected: 0

Total logical records discarded: 0

Total stream buffers loaded by SQL\*Loader main thread: 1

Total stream buffers loaded by SQL\*Loader load thread: 0

Run began on Sun Dec 04 14:05:56 2016

Run ended on Sun Dec 04 14:05:57 2016

Elapsed time was: 00:00:00.16

CPU time was: 00:00:00.10

**Create**

**Code Tables**

# Create Code Tables

## DESTINATION Table

REM ==================================================================

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SOHA HEMMATI \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM ==================================================================

REM ================== INITIAL FORMAT SETTING ==========================

SET PAGESIZE 35

SET LINESIZE 100

SET FEEDBACK ON

SET VERIFY ON

--TTITLE '\*\*\*\*\*\*\*\*\*\*\* CREATE TRAVELXP TABLES(CODE TABLES) \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

--BTITLE '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* By Soha Hemmati \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

COL AGENT\_ADDRESS FOR A30

COL AGENT\_NAME FOR A15

REM============= CREATE CODE TABLES and loading data =====================

CONN towner/travelxp456

DROP TABLE destination CASCADE CONSTRAINTS PURGE;

DROP TABLE fee\_type CASCADE CONSTRAINTS PURGE;

DROP TABLE class\_type CASCADE CONSTRAINTS PURGE;

DROP TABLE affiliation CASCADE CONSTRAINTS PURGE;

DROP TABLE agent\_EMP CASCADE CONSTRAINTS PURGE;

DROP TABLE trip\_type CASCADE CONSTRAINTS PURGE;

DROP TABLE agent\_office CASCADE CONSTRAINTS PURGE;

DROP TABLE product\_category CASCADE CONSTRAINTS PURGE;

DROP TABLE payment\_type CASCADE CONSTRAINTS PURGE;

DROP TABLE commission\_status CASCADE CONSTRAINTS PURGE;

DROP TABLE tax CASCADE CONSTRAINTS PURGE;

PURGE RECYCLEBIN;

REM ======================== **DESTINATION TABLE** ==========================

CREATE TABLE DESTINATION

(destination\_code VARCHAR2(10)

constraint destination\_dest\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX destination\_dest\_id\_idx ON DESTINATION(destination\_code)

TABLESPACE indx),

destination\_name VARCHAR2(30))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC DESTINATION

Name Null? Type

----------------------------------------- -------- --------------------

DESTINATION\_CODE VARCHAR2(10)

DESTINATION\_NAME VARCHAR2(30)

REM FOR Loading Data to DESTINATION Table, I Used Control File (you can see in the next page)

SQL> SELECT \* FROM DESTINATION;

DESTINATIO DESTINATION\_NAME

---------- -------------------------

MED Mediterranean

ANZ Australia & New Zealand

AFR Africa

ASIA Asia

SA South America

EU Europe & United Kingdom

MEAST Middle East

SP South Pacific

NA North America

OTHR Other

10 rows selected.

## CLASS\_TYPE Table

REM ============================== **CLASS\_TYPE TABLE** =================================

CREATE TABLE CLASS\_TYPE

(class\_code VARCHAR2(6)

constraint class\_code\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX class\_code\_idx ON CLASS\_TYPE(class\_code)

TABLESPACE indx),

class\_name VARCHAR2(15))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC CLASS\_TYPE

Name Null? Type

----------------------------------------- -------- --------------------

CLASS\_CODE VARCHAR2(6)

CLASS\_NAME VARCHAR2(15)

REM FOR Loading Data to CLASS\_TYPE Table I Used Control File

SQL> SELECT \* FROM CLASS\_TYPE;

CLASS\_ CLASS\_NAME

------ ---------------

FST First Class

BSN Business

ECN Economy

OCNV Ocean View

INT Interior

DLX Deluxe

DBL Double

SNG Single

8 rows selected.

## AFFILIATION Table

REM ============================== **AFFILIATION TABLE** ===============================

CREATE TABLE AFFILIATION

(affiliation\_code VARCHAR2(10)

constraint affiliation\_code\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX affil\_code\_\_idx ON AFFILIATION(affiliation\_code)

TABLESPACE indx),

affiliation\_name VARCHAR2(40))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC AFFILIATION

Name Null? Type

----------------------------------------- -------- --------------------

AFFILIATION\_CODE VARCHAR2(10)

AFFILIATION\_NAME VARCHAR2(40)

REM FOR Loading Data to AFFILIATION Table I Used Control File

SQL> SELECT \* FROM AFFILIATION;

AFFILIATIO AFFILIATION\_NAME

---------- ----------------------------------------

ACTA Association of Canadian Travel Agents

ACTANEW

ACTANEWP

ACTAPGY

NEW

NEWPGY

PGY

7 rows selected.

## TRIP\_TYPE Table

REM =========================== **TRIP\_TYPE TABLE** ===========================

CREATE TABLE TRIP\_TYPE

(trip\_code VARCHAR2(3)

constraint trip\_type\_code\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX trip\_type\_code\_idx ON TRIP\_TYPE(trip\_code)

TABLESPACE indx),

trip\_type VARCHAR2(10))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 10000

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC TRIP\_TYPE

Name Null? Type

----------------------------------------- -------- --------------------

TRIP\_CODE VARCHAR2(3)

TRIP\_TYPE VARCHAR2(10)

REM= FOR Loading Data to TRIP\_TYPE Table I Can Use Insert Statement Because it has less than 5 records

SQL> INSERT INTO TRIP\_TYPE

2 (trip\_code,trip\_type)

3 VALUES ('B','Business');

1 row created.

SQL> INSERT INTO TRIP\_TYPE

2 (trip\_code,trip\_type)

3 VALUES ('L','Leisure');

1 row created.

SQL> INSERT INTO TRIP\_TYPE

2 (trip\_code,trip\_type)

3 VALUES ('G','Group');

1 row created.

SQL> COMMIT;

Commit complete.

SQL> select \* from trip\_type;

TRI TRIP\_TYPE

--- ----------

B Business

L Leisure

G Group

## PRODUCT\_CATEGORY Table

REM ============================ PRODUCT\_CATEGORY TABLE =============================

CREATE TABLE PRODUCT\_CATEGORY

(product\_cat\_id NUMBER(10)

constraint product\_cat\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX product\_cat\_id\_idx ON PRODUCT\_CATEGORY(product\_cat\_id)

TABLESPACE indx),

product\_cat\_name VARCHAR2(35),

product\_cat\_min\_range NUMBER(5),

product\_cat\_mAX\_range NUMBER(5))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC PRODUCT\_CATEGORY

Name Null? Type

----------------------------------------- -------- --------------------

PRODUCT\_CAT\_ID NUMBER(10)

PRODUCT\_CAT\_NAME VARCHAR2(35)

PRODUCT\_CAT\_MIN\_RANGE NUMBER(5)

PRODUCT\_CAT\_MAX\_RANGE NUMBER(5)

REM FOR Loading Data to PRODUCT\_CATEGORY Table I Used Control File

SQL> SELECT \* FROM PRODUCT\_CATEGORY;

PRODUCT\_CAT\_ID PRODUCT\_CAT\_NAME PRODUCT\_CAT\_MIN\_RANGE PRODUCT\_CAT\_MAX\_RANGE

-------------- ----------------------------------- --------------------- ---------------------

1 Airline Consolidators 100 149

2 Airlines 150 199

3 Attractions 200 249

4 Car rentals 250 299

5 Cruise lines 300 349

6 Hotel reps & chains in Canada 350 399

7 Motor Coach Tour Operators 400 449

8 Railroads 450 499

9 Tour Operators/Wholesales 500 549

10 Travel insurance 550 599

11 Yacht & Boat Charters 600 649

11 rows selected.

## AGENT\_EMP Table

REM =========================== **AGENT\_EMP TABLE** ===========================

CREATE TABLE AGENT\_EMP

(emp\_num NUMBER(5)

constraint agent\_num\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX agent\_num\_idx ON AGENT\_EMP(emp\_num)

TABLESPACE indx),

emp\_id VARCHAR2(5),

emp\_fname VARCHAR2(20),

emp\_lname VARCHAR2(20),

office\_id NUMBER(5))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC AGENT\_EMP

Name Null? Type

----------------------------------------- -------- --------------------

EMP\_NUM NUMBER(5)

EMP\_ID VARCHAR2(5)

EMP\_FNAME VARCHAR2(20)

EMP\_LNAME VARCHAR2(20)

OFFICE\_ID NUMBER(5)

REM FOR Loading Data to AGENT\_EMP Table I Used Control File

SQL> SELECT \* FROM AGENT\_EMP;

EMP\_NUM EMP\_I EMP\_FNAME EMP\_LNAME OFFICE\_ID

---------- ----- -------------------- -------------------- ----------

1 JD Janet Delton 1

2 JL Judy Lisle 1

3 DR Dennis C. Reynolds 1

4 JC John Coville 1

5 JD Janice W. Dahl 1

6 BD Bruce J. Dixon 1

7 BJ Beverly S. Jones 1

8 JM Jane Merrill 1

9 BP Brain S. Peterson 1

9 rows selected.

## AGENT\_OFFICE Table

REM ========================== AGENT\_OFFICE TABLE =============================

CREATE TABLE AGENT\_OFFICE

(office\_id NUMBER(5)

constraint office\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX office\_id\_idx ON AGENT\_OFFICE(office\_id)

TABLESPACE indx),

agent\_name VARCHAR2(25),

agent\_address VARCHAR2(40),

agent\_zipcode VARCHAR2(10),

agent\_phone VARCHAR2(18),

agent\_fax VARCHAR2(18))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC AGENT\_OFFICE

Name Null? Type

----------------------------------------- -------- --------------------

OFFICE\_ID NUMBER(5)

AGENT\_NAME VARCHAR2(25)

AGENT\_ADDRESS VARCHAR2(40)

AGENT\_ZIPCODE VARCHAR2(10)

AGENT\_PHONE VARCHAR2(18)

AGENT\_FAX VARCHAR2(18)

SQL> INSERT INTO AGENT\_OFFICE

2 (office\_id,agent\_name,agent\_address,agent\_zipcode,agent\_phone,agent\_fax)

3 VALUES (1,'Travel Experts','1155 8th Ave S.W. Calgary AB.',

'T2P 1N3','403-271-9873','403-271-9872');

1 row created.

SQL> COMMIT;

Commit complete.

SQL> SELECT \* FROM AGENT\_OFFICE;

OFFICE\_ID AGENT\_NAME AGENT\_ADDRESS AGENT\_ZIPC AGENT\_PHONE AGENT\_FAX

---------- --------------- ------------------------------ ---------- ------------ -----------

1 Travel Experts 1155 8th Ave S.W. Calgary AB. T2P 1N3 403-271-9873 403-271-9872

## PAYMENT\_TYPE Table

REM ========================= **PAYMENT\_TYPE TABLE** ==============================

CREATE TABLE PAYMENT\_TYPE

(pay\_type VARCHAR2(15)

constraint pay\_type\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX pay\_type\_idx ON PAYMENT\_TYPE(pay\_type)

TABLESPACE indx))

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100

TABLESPACE user\_data;

SQL> DESC PAYMENT\_TYPE

Name Null? Type

----------------------------------------- -------- --------------------

PAY\_TYPE VARCHAR2(15)

SQL> INSERT INTO PAYMENT\_TYPE VALUES ('FINAL PAYMENT');

1 row created.

SQL> INSERT INTO PAYMENT\_TYPE VALUES ('FULL PAYMENT');

1 row created.

SQL> INSERT INTO PAYMENT\_TYPE VALUES ('DEPOSIT');

1 row created.

SQL> COMMIT;

Commit complete.

SQL> SELECT \* FROM PAYMENT\_TYPE;

PAY\_TYPE

---------------

FINAL PAYMENT

FULL PAYMENT

DEPOSIT

## TAX Table

REM =========================== **TAX TABLE** ============================================

CREATE TABLE TAX

(tax\_id NUMBER(3)

constraint tax\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX tax\_id\_idx ON TAX(tax\_id)

TABLESPACE indx),

tax\_code VARCHAR2(10),

tax\_amount NUMBER(4,2),

tax\_description VARCHAR2(20),

tax\_year VARCHAR2(4))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

DESC TAX

## Table Verification

REM ===================== **A simple Verification** ================

REM MORE VERIFICATION WILL BE IN VERFICATION SECTION

SQL> SELECT TABLE\_NAME, TABLESPACE\_NAME,OWNER FROM DBA\_TABLES

2 WHERE OWNER = 'TOWNER';

TABLE\_NAME TABLESPACE\_NAME OWNER

------------------------------ ------------------------------ -------------

SUPPLIER\_DATA ADHOC TOWNER

SALE\_DATA ADHOC TOWNER

CUSTOMER\_DATA ADHOC TOWNER

TRIP\_TYPE USER\_DATA TOWNER

AGENT\_OFFICE USER\_DATA TOWNER

PAYMENT\_TYPE USER\_DATA TOWNER

CLASS\_TYPE USER\_DATA TOWNER

AGENT\_EMP USER\_DATA TOWNER

PRODUCT\_CATEGORY USER\_DATA TOWNER

AFFILIATION USER\_DATA TOWNER

DESTINATION USER\_DATA TOWNER

11 rows selected.

REM =================== CLEARING SETTING ===============================

TTITLE OFF

BTITLE OFF

SET linesize 80

SET Long 80

SET FEEDBACK OFF

SET VERIFY OFF

SET ECHO OFF

**Create**

**Main Tables**

# Create Main Tables

## CUSTOMER Table

SET echo on

REM ==================================================================

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SOHA HEMMATI \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM ==================================================================

REM ==================== INITIAL FORMAT SETTING ========================

SET PAGESIZE 15

SET LINESIZE 100

SET FEEDBACK ON

SET VERIFY ON

--TTITLE '\*\*\*\*\*\*\*\*\*\*\*\* CREATE TRAVELXP TABLES(MAIN TABLES) \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

--BTITLE '\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* By Soha Hemmati \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

COL AGENT\_ADDRESS FOR A30

COL AGENT\_NAME FOR A15

REM==================== CREATE MAIN TABLES ============================

CONN towner/travelxp456

CREATE TABLE CUSTOMER

(customer\_id NUMBER(10)

constraint customer\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX customer\_id\_idx ON customer(customer\_id)

TABLESPACE indx),

customer\_fname VARCHAR2(20),

customer\_lname VARCHAR2(20),

customer\_birth\_date DATE,

customer\_email VARCHAR2(40),

customer\_home\_phone VARCHAR2(18),

customer\_business\_phone VARCHAR2(18),

customer\_address VARCHAR2(50),

customer\_zipcode VARCHAR2(10),

customer\_city VARCHAR2(30),

customer\_province VARCHAR2(20),

customer\_country VARCHAR2(30),

customer\_dependent NUMBER(3))

STORAGE (INITIAL 10M

NEXT 10M

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC CUSTOMER

Name Null? Type

----------------------------------------- -------- ---------------

CUSTOMER\_ID NUMBER(10)

CUSTOMER\_FNAME VARCHAR2(20)

CUSTOMER\_LNAME VARCHAR2(20)

CUSTOMER\_BIRTH\_DATE DATE

CUSTOMER\_EMAIL VARCHAR2(40)

CUSTOMER\_HOME\_PHONE VARCHAR2(18)

CUSTOMER\_BUSINESS\_PHONE VARCHAR2(18)

CUSTOMER\_ADDRESS VARCHAR2(50)

CUSTOMER\_ZIPCODE VARCHAR2(10)

CUSTOMER\_CITY VARCHAR2(30)

CUSTOMER\_PROVINCE VARCHAR2(20)

CUSTOMER\_COUNTRY VARCHAR2(30)

CUSTOMER\_DEPENDENT NUMBER(3)

## CREDIT\_CARD Table

REM========================== **CREDIT\_CARD TABLE** ===============================

CREATE TABLE CREDIT\_CARD

(customer\_id NUMBER(10)

CONSTRAINT customer\_id\_fk REFERENCES CUSTOMER(customer\_id)

DEFERRABLE INITIALLY DEFERRED,

card\_id NUMBER(10),

card\_number VARCHAR2(30),

card\_type VARCHAR2(20),

expiry\_date DATE,

CONSTRAINT card\_customer\_id\_pk PRIMARY KEY (card\_id,customer\_id)

USING INDEX

(CREATE INDEX card\_customer\_id\_idx ON CREDIT\_CARD(card\_id,customer\_id)

TABLESPACE indx))

STORAGE (INITIAL 10M

NEXT 10M

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC CREDIT\_CARD

Name Null? Type

----------------------------------------- -------- ------------------

CUSTOMER\_ID NOT NULL NUMBER(10)

CARD\_ID NOT NULL NUMBER(10)

CARD\_NUMBER VARCHAR2(30)

CARD\_TYPE VARCHAR2(20)

EXPIRY\_DATE DATE

## ITIN\_INVOICE Table

REM ========================== **ITINERARY\_INVOICE TABLE** ==========================

CREATE TABLE ITIN\_INVOICE

(itin\_invc\_id NUMBER(10)

constraint itin\_invc\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX itin\_invc\_id\_idx ON ITIN\_INVOICE(itin\_invc\_id)

TABLESPACE indx),

itin\_invc\_no NUMBER(10),

itin\_invc\_date DATE,

no\_of\_traveller NUMBER(3),

billed\_amount NUMBER(10,2),

pay\_type VARCHAR2(15)

constraint invoice\_pay\_type\_id\_fk REFERENCES PAYMENT\_TYPE(pay\_type)

DEFERRABLE INITIALLY DEFERRED)

TABLESPACE user\_data

STORAGE (INITIAL 10m

NEXT 10m

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC ITIN\_INVOICE

Name Null? Type

----------------------------------------- -------- ----------------------------

ITIN\_INVC\_ID NUMBER(10)

ITIN\_INVC\_NO NUMBER(10)

ITIN\_INVC\_DATE DATE

NO\_OF\_TRAVELLER NUMBER(3)

BILLED\_AMOUNT NUMBER(10,2)

PAY\_TYPE VARCHAR2(15)

## BOOKING Table

REM ============================ **BOOKING TABLE** ==============================

CREATE TABLE BOOKING

(booking\_id NUMBER(10)

constraint booking\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX booking\_id\_idx ON BOOKING(booking\_id)

TABLESPACE indx),

booking\_no VARCHAR2(15),

booking\_date DATE,

trip\_start\_date DATE,

trip\_end\_date DATE,

destination\_desc VARCHAR2(50),

destination\_code VARCHAR2(10)

constraint book\_destin\_code\_fk REFERENCES DESTINATION(destination\_code)

DEFERRABLE INITIALLY DEFERRED ,

itin\_invc\_id NUMBER(10)

constraint book\_itin\_invc\_id\_fk REFERENCES ITIN\_INVOICE(itin\_invc\_id)

DEFERRABLE INITIALLY DEFERRED ,

emp\_num NUMBER(3)

constraint book\_emp\_num\_fk REFERENCES AGENT\_EMP(emp\_num)

DEFERRABLE INITIALLY DEFERRED ,

trip\_code VARCHAR2(3)

constraint book\_trip\_code\_fk REFERENCES TRIP\_TYPE(trip\_code)

DEFERRABLE INITIALLY DEFERRED)

STORAGE (INITIAL 10M

NEXT 10M

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100

TABLESPACE user\_data;

SQL> DESC BOOKING

Name Null? Type

----------------------------------------- -------- -------------------

BOOKING\_ID NUMBER(10)

BOOKING\_NO VARCHAR2(15)

BOOKING\_DATE DATE

TRIP\_START\_DATE DATE

TRIP\_END\_DATE DATE

DESTINATION\_DESC VARCHAR2(50)

DESTINATION\_CODE VARCHAR2(10)

ITIN\_INVC\_ID NUMBER(10)

EMP\_NUM NUMBER(3)

TRIP\_CODE VARCHAR2(3)

DROP SEQUENCE booking\_seq;

CREATE SEQUENCE booking\_seq

START WITH 1

MAXVALUE 10000

INCREMENT BY 1

NOCACHE

NOCYCLE;

## SUPPLIER Table

REM======================== **SUPPLIER TABLE** =================================

CREATE TABLE SUPPLIER

(supplier\_id NUMBER(10)

constraint supplier\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX supplier\_id\_idx ON SUPPLIER(supplier\_id)

TABLESPACE indx),

supplier\_num NUMBER(10),

supplier\_name VARCHAR2(40),

supplier\_company\_name VARCHAR2(80),

supplier\_office VARCHAR2(3),

supplier\_phone varchar2(18),

supplier\_fax VARCHAR2(18),

supplier\_address1 VARCHAR2(50),

supplier\_address2 VARCHAR2(50),

supplier\_zipcode VARCHAR2(10),

supplier\_email VARCHAR2(40),

supplier\_website VARCHAR2(40),

representative VARCHAR2(30),

supplier\_city VARCHAR2(30),

supplier\_province VARCHAR2(20),

supplier\_country VARCHAR2(30),

affiliation\_code VARCHAR2(10)

CONSTRAINT sup\_affiliation\_code\_fk REFERENCES AFFILIATION(affiliation\_code)

DEFERRABLE INITIALLY DEFERRED)

TABLESPACE user\_data

STORAGE (INITIAL 10M

NEXT 10M

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC SUPPLIER

Name Null? Type

----------------------------------------- -------- ----------------------------

SUPPLIER\_ID NUMBER(10)

SUPPLIER\_NUM NUMBER(10)

SUPPLIER\_NAME VARCHAR2(40)

SUPPLIER\_COMPANY\_NAME VARCHAR2(80)

SUPPLIER\_OFFICE VARCHAR2(3)

SUPPLIER\_PHONE VARCHAR2(18)

SUPPLIER\_FAX VARCHAR2(18)

SUPPLIER\_ADDRESS1 VARCHAR2(50)

SUPPLIER\_ADDRESS2 VARCHAR2(50)

SUPPLIER\_ZIPCODE VARCHAR2(10)

SUPPLIER\_EMAIL VARCHAR2(40)

SUPPLIER\_WEBSITE VARCHAR2(40)

REPRESENTATIVE VARCHAR2(30)

SUPPLIER\_CITY VARCHAR2(30)

SUPPLIER\_PROVINCE VARCHAR2(20)

SUPPLIER\_COUNTRY VARCHAR2(30)

AFFILIATION\_CODE VARCHAR2(10)

## PRODUCT Table

REM ================================ **PRODUCT** ===============================

CREATE TABLE PRODUCT

(product\_id NUMBER(10),

booking\_id NUMBER(10)

constraint prod\_booking\_id\_fk REFERENCES BOOKING(booking\_id)

DEFERRABLE INITIALLY DEFERRED,

product\_name VARCHAR2(20),

prod\_start\_date DATE,

prod\_end\_date DATE,

prod\_description VARCHAR2(40),

prod\_base\_price NUMBER(10,2),

pay\_due\_date DATE,

class\_code VARCHAR2(6)

constraint prod\_sold\_class\_code\_fk REFERENCES CLASS\_TYPE(class\_code)

DEFERRABLE INITIALLY DEFERRED,

prod\_cat\_id NUMBER(10)

constraint prod\_product\_cat\_id\_fk REFERENCES PRODUCT\_CATEGORY(product\_cat\_id)

DEFERRABLE INITIALLY DEFERRED,

tax\_id NUMBER(3)

constraint prod\_tax\_id\_fk REFERENCES TAX(tax\_id)

DEFERRABLE INITIALLY DEFERRED,

CONSTRAINT prod\_book\_pk PRIMARY KEY (product\_id,booking\_id)

USING INDEX

(CREATE INDEX prod\_book\_idx ON PRODUCT(product\_id,booking\_id)

TABLESPACE indx))

STORAGE (INITIAL 10M

NEXT 10M

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100

TABLESPACE user\_data;

Name Null? Type

----------------------------------------- -------- --------------------

PRODUCT\_ID NOT NULL NUMBER(10)

BOOKING\_ID NOT NULL NUMBER(10)

PRODUCT\_NAME VARCHAR2(20)

PROD\_START\_DATE DATE

PROD\_END\_DATE DATE

PROD\_DESCRIPTION VARCHAR2(40)

PROD\_BASE\_PRICE NUMBER(10,2)

PAY\_DUE\_DATE DATE

CLASS\_CODE VARCHAR2(6)

PROD\_CAT\_ID NUMBER(10)

TAX\_ID NUMBER(3)

SUPPLIER\_PRODUCT Table

REM =========================== SUPPLIER\_PRODUCT ====================================

CREATE TABLE SUPPLIER\_PRODUCT

(supplier\_id NUMBER(10),

product\_id NUMBER(10),

booking\_id NUMBER(10),

booking\_num VARCHAR2(15));

alter table

supplier\_product

add constraint

supplier\_product\_booking\_id\_pk

PRIMARY KEY (supplier\_id,product\_id, booking\_id);

alter table

supplier\_product

add constraint

prod\_book\_id\_fk FOREIGN KEY (product\_id,booking\_id)

references

PRODUCT(product\_id,booking\_id)

initially deferred deferrable;

alter table

supplier\_product

add constraint

supp\_prod\_id\_fk FOREIGN KEY (supplier\_id)

references

supplier(supplier\_id)

initially deferred deferrable;

SQL> desc SUPPLIER\_PRODUCT;

Name Null? Type

----------------------------------------------------------------- -------- --------------

SUPPLIER\_ID NOT NULL NUMBER(10)

PRODUCT\_ID NOT NULL NUMBER(10)

BOOKING\_ID NOT NULL NUMBER(10)

BOOKING\_NUM VARCHAR2(15)

## TAX Table

REM =============================== **TAX TABLE** ====================================

CREATE TABLE TAX

(tax\_id NUMBER(3)

constraint tax\_id\_pk primary key

DEFERRABLE INITIALLY DEFERRED

USING INDEX

(CREATE INDEX tax\_id\_idx ON TAX(tax\_id)

TABLESPACE indx),

tax\_code VARCHAR2(10),

tax\_amount NUMBER(4,2),

tax\_description VARCHAR2(20),

tax\_year VARCHAR2(4))

TABLESPACE user\_data

STORAGE (INITIAL 10K

NEXT 10K

MINEXTENTs 2

MAXEXTENTS 100

PCTINCREASE 0)

PCTFREE 10

PCTUSED 40

INITRANS 2

MAXTRANS 100;

SQL> DESC TAX

Name Null? Type

----------------------------------------- -------- ----------------------------

TAX\_ID NUMBER(3)

TAX\_CODE VARCHAR2(10)

TAX\_AMOUNT NUMBER(4,2)

TAX\_DESCRIPTION VARCHAR2(20)

TAX\_YEAR VARCHAR2(4)

## Main Tables Verification

REM ========================== **A simple Verification** ==========================

SQL> CONN sys/oracle as sysdba

Connected.

SQL> SELECT TABLE\_NAME, TABLESPACE\_NAME,OWNER FROM DBA\_TABLES

2 WHERE OWNER = 'TOWNER'

3 ORDER BY TABLESPACE\_NAME;

TABLE\_NAME TABLESPACE\_NAME OWNER

-------------------- -------------------- --------------------

CUSTOMER\_DATA ADHOC TOWNER

SUPPLIER\_DATA ADHOC TOWNER

SALE\_DATA ADHOC TOWNER

TAX USER\_DATA TOWNER

CREDIT\_CARD USER\_DATA TOWNER

PRODUCT\_SOLD USER\_DATA TOWNER

AGENT\_OFFICE USER\_DATA TOWNER

TRIP\_TYPE USER\_DATA TOWNER

PAYMENT\_TYPE USER\_DATA TOWNER

DESTINATION USER\_DATA TOWNER

CLASS\_TYPE USER\_DATA TOWNER

AFFILIATION USER\_DATA TOWNER

PRODUCT\_CATEGORY USER\_DATA TOWNER

AGENT\_EMP USER\_DATA TOWNER

CUSTOMER USER\_DATA TOWNER

BOOKING USER\_DATA TOWNER

SUPPLIER USER\_DATA TOWNER

TRAVELLER USER\_DATA TOWNER

ITIN\_INVOICE USER\_DATA TOWNER

19 rows selected.

REM =================== CLEARING SETTING ===============================

TTITLE OFF

BTITLE OFF

SET linesize 80

SET Long 80

SET FEEDBACK OFF

SET VERIFY OFF

SET ECHO OFF

SPOOL OFF

**Load Data**

**BY**

**Insert Statment**

# Loading Data by Insert Statement

## Insert Data into CUSTOMER Table

REM ======================= **INSERT DATA INTO CUSTOMER TABLE** ========================

INSERT INTO CUSTOMER

(customer\_id,

customer\_fname,

customer\_lname,

customer\_birth\_date,

customer\_email,

customer\_home\_phone,

customer\_business\_phone,

customer\_address,

customer\_city,

customer\_zipcode,

customer\_province,

customer\_country

)

SELECT

cust\_id,

fname,

Lname,

birth\_date,

email,

home\_phone,

b\_phone,

address,

city,

postal\_code,

province,

country

FROM CUSTOMER\_DATA;

SQL> SELECT CUSTOMER\_ID, CUSTOMER\_FNAME, CUSTOMER\_LNAME, CUSTOMER\_BIRTH\_DATE,

2 CUSTOMER\_EMAIL, CUSTOMER\_HOME\_PHONE, CUSTOMER\_BUSINESS\_PHONE

3 FROM CUSTOMER

4 WHERE rownum <=10

5 ORDER BY CUSTOMER\_ID;

CUSTOMER\_ID FNAME LNAME BIRTH\_DAT EMAIL H\_PHONE B\_PHONE

----------- --------- --------------- --------- ------------------------- ---------- ----------

102 Fred Crocitto 22-JAN-70 4032796411 4032449653

103 J. Landry 4032794511 4032844477

104 Laetia Enison 4032791223 4032557865

105 Angel Moskowitz amoskowitz@home.com 4032794228 4036409874

106 Judith Olvsade 22-JUN-55 jolvsade@aol.com 4032795652 4036861598

107 Catherine Mierzwa cmierzwa@msn.com 4032796878 4036404563

108 Judy Sethi judysehti@home.com 4032795111 4036204789

109 Larry Walter lwalter@aol.com 4032793254 4032845588

110 Maria Martin mmartin@nucleos.com 4032693678 4035907411

111 Peggy Noviello pnoviello@istar.com 4032691999 4036861547

10 rows selected.

SQL> SELECT CUSTOMER\_ID, CUSTOMER\_ADDRESS, CUSTOMER\_ZIPCODE,CUSTOMER\_CITY, CUSTOMER\_PROVINCE,

2 CUSTOMER\_COUNTRY

3 FROM CUSTOMER

4 where rownum <=10

5 ORDER BY CUSTOMER\_ID;

CUSTOMER\_ID ADDRESS ZIPCODE CITY PROVINCE COUNTRY

----------- ------------------------------- ---------- ---------- --------------- ---------------

102 101-09 120th St., NE T2J 6P3 Calgary AB Canada

103 7435 Boulevard East #4, NE T2J 6B6 Calgary AB Canada

104 144-61 87th Ave, NE T2J 6B6 Calgary AB Canada

105 320 John St., NE T2J 7E3 Calgary AB Canada

106 29 Elmwood Ave., T2Z 3M9 Calgary AB Canada

107 22-70 41st St.,NW T2Z 2Z9 Calgary AB Canada

108 63 Stratton Hall, SW T1Y 6N4 Calgary AB Canada

109 38 Bay 26th ST. #2A, NE T2J 6B6 Calgary AB Canada

110 1674 Woodbine St., NE T2J 6B6 Calgary AB Canada

111 155 Union Ave #211, NE T2J 7E3 Calgary AB Canada

10 rows selected.

SQL> SELECT COUNT(\*) FROM CUSTOMER;

COUNT(\*)

----------

270

SQL> Commit;

Commit complete.

## Insert Data into CREDIT\_CARD Table

REM==================== **INSERT DATA INTO CREDIT\_CARD TABLE** ====================

TRUNCATE TABLE CREDIT\_CARD;

DROP SEQUENCE credit\_card\_seq;

CREATE SEQUENCE credit\_card\_seq

START WITH 1

MAXVALUE 10000

INCREMENT BY 1

NOCACHE

NOCYCLE;

REM I used control file for loading data to this table.

SQL> select \* from credit\_card where rownum <=10;

CUSTOMER\_ID CARD\_ID CARD\_NUMBER CARD\_TYPE EXPIRY\_DA

----------- ---------- ------------------------------ -------------------- ---------

104 519 78789007977999 AMEX 22-AUG-10

105 520 3347777387984530 DINERS 09-MAY-10

106 521 5214635263416330 DINERS 02-JAN-10

106 522 3522354387984530 AMEX 06-SEP-10

107 523 3422343212433430 AMEX 19-JUL-11

109 524 24348343482482 DINERS 25-NOV-12

114 525 2311240543980120 VISA 03-NOV-10

117 526 7482794729742320 DINERS 12-APR-10

118 527 699834387984533 DINERS 04-JAN-11

119 528 23958389028923 VISA 22-AUG-10

10 rows selected.

SQL> select count(\*) from credit\_card;

COUNT(\*)

----------

232

## Insert Data into ITIN\_INVOICE Table

REM ================= **INSERT DATA INTO ITINERARY\_INVOICE TABLE** ====================

INSERT INTO itin\_invoice

(itin\_invc\_id,

itin\_invc\_no,

itin\_invc\_date,

no\_of\_traveller,

billed\_amount,

pay\_type)

SELECT

itinerary\_id,

itinerary\_num,

billing\_date,

num\_of\_travelers,

billed\_amt,

bill\_description

FROM sale\_data;

SQL> select \* from itin\_invoice where rownum <=10;

ITIN\_INVC\_ID ITIN\_INVC\_NO ITIN\_INVC NO\_OF\_TRAVELLER BILLED\_AMOUNT PAY\_TYPE

------------ ------------ --------- --------------- ------------- ---------------

1 1000 25-FEB-08 2 677.2 DEPOSIT

2 1000 25-FEB-08 2 5644.8 FINAL PAYMENT

3 136 15-JAN-09 2 0

4 136 15-JAN-09 2 0

5 136 15-JAN-09 2 133.75 FULL PAYMENT

6 224 01-APR-09 2 1895 FULL PAYMENT

7 205 01-JUN-09 1 1007.77 FULL PAYMENT

8 160 27-JAN-09 1 1007.77 FULL PAYMENT

9 179 29-JAN-09 1 984 FULL PAYMENT

10 181 30-JAN-09 1 638.77 FULL PAYMENT

10 rows selected.

SQL> select count(\*) from itin\_invoice;

COUNT(\*)

----------

1341

SQL> commit;

Commit complete.

DROP SEQUENCE itin\_invoice\_seq;

CREATE SEQUENCE itin\_invoice\_seq

START WITH 1342

MAXVALUE 10000

INCREMENT BY 1

NOCACHE

NOCYCLE;

## Insert Data into BOOKING Table

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PREPARING BEFORE INSERTING DATA TO BOOKING \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

update sale\_data

set emp\_num = 1

where agent = 'JD';

update sale\_data

set emp\_num = 2

where agent = 'JL';

update sale\_data

set emp\_num = 3

where agent = 'DR';

update sale\_data

set emp\_num = 4

where agent = 'JC';

update sale\_data

set emp\_num = 5

where agent = 'JD';

update sale\_data

set emp\_num = 6

where agent = 'BD';

update sale\_data

set emp\_num = 7

where agent = 'BJ';

update sale\_data

set emp\_num = 8

where agent = 'JM';

update sale\_data

set emp\_num = 9

where agent = 'BP';

COMMIT;

Commit complete.

SQL> SELECT emp\_num,agent from sale\_data where rownum<=10;

EMP\_NUM AGENT

---------- -----

3 DR

BS

8 JM

8 JM

8 JM

3 DR

9 BP

3 DR

9 BP

9 BP

REM who is BS that I don not have her/his information in agent\_emp table?

SQL> SELECT distinct emp\_num,agent from sale\_data where emp\_num is null;

EMP\_NUM AGENT

---------- -----

JW

BS

REM I don't have JW information too!!!

SQL> select count(\*) from sale\_data where emp\_num is null;

COUNT(\*)

----------

264

SQL> select count(\*) from sale\_data where agent is null;

COUNT(\*)

----------

108

REM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* NOW INSERT DATA TO BOOKING TABLE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TRUNCATE TABLE booking;

INSERT INTO booking

(booking\_id,

booking\_no,

booking\_date,

trip\_start\_date,

trip\_end\_date,

destination\_desc,

destination\_code,

itin\_invc\_id,

emp\_num,

fee\_code

)

SELECT

booking\_id,

booking\_num,

sale,

trip\_start,

trip\_end,

destination,

dest\_id,

itinerary\_id,

emp\_num,

agency\_fee\_code

FROM sale\_data;

SQL> REM I find 2 rows which their dest\_id were wrong then I flag them as incorrect data and update them.

SQL> update sale\_data

2 set DEST\_ID = 'SP'

3 where DEST\_ID = 'SPCF';

2 rows updated.

SQL> COMMIT;

Commit complete.

SQL> select \* from BOOKING where rownum <=10;

BOOKING\_ID BOOKING\_NO BOOKING\_D TRIP\_STAR TRIP\_END\_ DESTINATION\_DESC DESTINATIO

---------- --------------- --------- --------- --------- ---------------------- ----------

788 KKJ96 02-FEB-08 08-MAR-08 12-MAR-08 Buenos Aires,Argentina SA

789 SD45895 02-FEB-08 15-MAR-08 15-MAR-08 Canada NA

790 286756 03-FEB-08 11-MAR-08 02-APR-08 Canada,USA NA

791 KKJ98 03-FEB-08 08-MAR-08 12-MAR-08 SA

792 3214535ED 03-FEB-08 15-MAR-08 05-APR-08 Canada, USA NA

793 3214535ED 03-FEB-08 15-MAR-08 05-APR-08 Canada, USA NA

794 SD462894 03-FEB-08 15-MAR-08 05-APR-08 NA

795 5665666 03-FEB-08 16-MAR-08 06-APR-08 USA NA

796 5665666 03-FEB-08 16-MAR-08 06-APR-08 USA NA

797 A7667900 04-FEB-08 20-MAR-08 22-MAR-08 USA, Mexic NA

10 rows selected.

SQL> select count(\*) from BOOKING;

COUNT(\*)

----------

1341

## Insert Data into TRAVELLER Table

REM ========================== **INSERT DATA INTO TRAVELLER TABLE** ===========================

TRUNCATE TABLE traveller;

INSERT INTO traveller select cust\_id,booking\_id from sale\_data;

SQL> select \* from traveller where rownum <=5;

CUSTOMER\_ID BOOKING\_ID

----------- ----------

191 1

191 2

368 3

368 4

368 5

SQL>

SQL>

SQL> select count(\*) from traveller;

COUNT(\*)

----------

1341

## Insert Data into SUPPLIER Table

REM======================== **INSERT DATA INTO SUPPLIER TABLE** =================================

TRUNCATE TABLE SUPPLIER;

DROP SEQUENCE supplier\_seq;

CREATE SEQUENCE supplier\_seq

START WITH 1

MAXVALUE 10000

INCREMENT BY 1

NOCACHE

NOCYCLE;

INSERT INTO supplier

(supplier\_id,

supplier\_num,

supplier\_name,

supplier\_company\_name,

supplier\_office,

supplier\_phone,

supplier\_fax,

supplier\_address1,

supplier\_address2,

supplier\_zipcode,

supplier\_city,

supplier\_province,

supplier\_country,

supplier\_email,

supplier\_website,

representative,

affiliation\_code

)

SELECT

supplier\_seq.nextval,

product\_supplier,

Contact\_Name,

company,

supplier\_office,

PHONE,

fax,

address1,

address2,

zip\_postal,

city,

prov\_state,

country,

email,

web,

represents,

affiliation

FROM supplier\_data;

SQL> SELECT COUNT(\*) FROM SUPPLIER;

COUNT(\*)

----------

1193

SQL> commit;

Commit complete.

SQL> SELECT SUPPLIER\_ID, SUPPLIER\_NUM, SUPPLIER\_NAME, SUPPLIER\_COMPANY\_NAME,

2 SUPPLIER\_OFFICE, SUPPLIER\_PHONE

3 FROM SUPPLIER

4 WHERE SUPPLIER\_ID <=10

5 ORDER BY SUPPLIER\_ID;

SUPPLIER\_ID SUPPLIER\_NUM SUPPLIER\_NAME SUPPLIER\_COMPANY\_NAME SUP PHONE

----------- ------------ ------------------------- ----------------------------------- --- ----------

1 12 Sean Russell 21ST CENTURY TRAVEL INSURANCE 1 4164410166

2 30 DISNEY CRUISE LINE 1 8005118444

3 37 Linda Caldes ACCORD TRAVEL (TOURS) INC 1 4165993340

4 48 Franca Iuele SIGNATURE VACATIONS 1 4169671510

5 50 AER LINGUS 1 8002236537

6 55 Iouri Tcheressov AEROFLOT RUSSIAN INTERNATIONAL 1 5142882125

AIRLINES

7 65 Pierre Meslin AIR AFRIQUE 1 8003776660

8 69 Angela Mah AIR BC 1 6042732464

9 72 Joan Ioannou AIR CANADA VACATIONS 1 9056158020

10 76 J. Tong AIR CHINA INTERNATIONAL CORP 1 4165818833

10 rows selected.

SQL>

SQL> SELECT SUPPLIER\_ID,SUPPLIER\_FAX, SUPPLIER\_address1,

SUPPLIER\_address2,SUPPLIER\_ZIPCODE

2 FROM SUPPLIER

3 WHERE SUPPLIER\_ID <=10

4 ORDER BY SUPPLIER\_ID;

SUPPLIER\_ID SUPPLIER\_FAX SUPPLIER\_ADDRESS1 SUPPLIER\_ADDRESS2 ZIPCODE

----------- ------------------ ------------------------------ ------------------------------ ----------

1 4164411241 220 Duncan Mill Rd Suite 620 M3B 3J5

2 4075667353 210 Celebration Pl 34747-4

3 4165993405 777 Bay St Suite 1908 M5G 2C8

4 4169677154 160 Bloor St E Suite 400 M5W 1B9

5 6317522044 538 Broadhollow Rd 11747

6 5142885973 615 de Maisonneuve Blvd W H3A 1L8

7 2125417539 1350 Avenue of the Americas 10019

8 6042442675 5520 Miller Rd V7B 1L9

9 9056157028 2700 Matheson Blvd E 6th Fl E Tower L4W 4V9

10 4165810056 700 Bay St Suite 1900 LuCliff Place M5G 1Z6

10 rows selected.

SQL>

SQL> SELECT SUPPLIER\_ID,SUPPLIER\_CITY, SUPPLIER\_PROVINCE, SUPPLIER\_COUNTRY,SUPPLIER\_EMAIL

2 FROM SUPPLIER

3 WHERE SUPPLIER\_ID <=10

4 ORDER BY SUPPLIER\_ID;

SUPPLIER\_ID SUPPLIER\_CITY PROVINCE COUNTRY SUPPLIER\_EMAIL

----------- --------------- ---------- ---------- -----------------------------------

1 Toronto ON travelinsurance@globalserve.net

2 Celebration FL USA

3 Toronto ON

4 Toronto ON

5 Melville NY USA

6 Montreal PQ

7 New York NY USA

8 Richmond BC

9 Mississauga ON

10 Toronto ON airchina@idirect.com

10 rows selected.

SQL> SELECT SUPPLIER\_ID, SUPPLIER\_WEBSITE, REPRESENTATIVE, AFFILIATION\_CODE

2 FROM SUPPLIER

3 WHERE SUPPLIER\_ID <=10

4 ORDER BY SUPPLIER\_ID;

SUPPLIER\_ID SUPPLIER\_WEBSITE REPRESENTATIVE AFFILIATIO

----------- ----------------------------------- ------------------------- ----------

1 PGY

2 http://www.disneycruise.com

3 ACTAPGY

4 http://www.signature.ca

5

6 ACTAPGY

7 ACTAPGY

8 PGY

9 PGY

10 PGY

10 rows selected.

## Insert Data into PRODUCT Table

REM =========================== **INSERT DATA INTO PRODUCT** ==============================

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **DATA PREPARATION** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

/\* For insert data into product\_sold table I need to update the product\_category and

product\_supplier\_id columns in sale\_data table in adhoc .\*/

SQL> select \* from product\_category;

PRODUCT\_CAT\_ID PRODUCT\_CAT\_NAME PRODUCT\_CAT\_MIN\_RANGE PRODUCT\_CAT\_MAX\_RANGE

-------------- --------------------------------- --------------------- ---------------------

1 Airline Consolidators 100 149

2 Airlines 150 199

3 Attractions 200 249

4 Car rentals 250 299

5 Cruise lines 300 349

6 Hotel reps & chains in Canada 350 399

7 Motor Coach Tour Operators 400 449

8 Railroads 450 499

9 Tour Operators/Wholesales 500 549

10 Travel insurance 550 599

11 Yacht & Boat Charters 600 649

11 rows selected.

SQL> select product\_category from sale\_data

2 where product\_category < 100

3 or product\_category > 649;

PRODUCT\_CATEGORY

----------------

35

REM There is a row that is less than 100 it will violent my constraint then

REM I have to delete this row and flag it as a incorrect data to show to client.

SQL> Delete from sale\_data

2 Where product\_category=35;

1 row deleted.

SQL> commit;

Commit complete.

SQL> select distinct product\_category from sale\_data

2 order by product\_category;

PRODUCT\_CATEGORY

----------------

100

101

150

156

163

164

200

206

210

250

251

252

254

255

300

301

302

303

305

311

350

351

352

400

401

403

455

500

501

503

550

600

601

602

604

608

610

612

38 rows selected.

update sale\_data

set product\_category = 2

where product\_category between 150 and 199;

update sale\_data

set product\_category = 3

where product\_category between 200 and 249;

update sale\_data

set product\_category = 4

where product\_category between 250 and 299;

update sale\_data

set product\_category = 5

where product\_category between 300 and 349;

update sale\_data

set product\_category = 6

where product\_category between 350 and 399;

update sale\_data

set product\_category = 7

where product\_category between 400 and 449;

update sale\_data

set product\_category = 8

where product\_category between 450 and 499;

update sale\_data

set product\_category = 9

where product\_category between 500 and 549;

update sale\_data

set product\_category = 10

where product\_category between 550 and 599;

update sale\_data

set product\_category = 11

where product\_category between 600 and 649;

COMMIT;

REM Also I need to update product\_supplier\_id column in sale\_data in adhoc WITH SUPPLIER\_ID in

REM SUPPLIER table.

--1

update sale\_data

set product\_supplier\_id = 1

where product\_supplier\_id = 12;

--3 rows updated.

--2

update sale\_data

set product\_supplier\_id = 2

where product\_supplier\_id = 30

/

--3

update sale\_data

set product\_supplier\_id = 3

where product\_supplier\_id = 37

/

.

.

.

.

--168

update sale\_data

set product\_supplier\_id = 1187

where product\_supplier\_id = 13554

/

--169

update sale\_data

set product\_supplier\_id = 1191

where product\_supplier\_id = 13590

/

--170

update sale\_data

set product\_supplier\_id = 1193

where product\_supplier\_id = 13596

/

update sale\_data

set product\_supplier\_id = 150

where product\_supplier\_id =1194

/

commit;

Rem \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **EXCEPTIONS TABLE** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> create table exceptions(row\_id urowid,

2 owner varchar2(30),

3 table\_name varchar2(30),

4 constraint varchar2(30));

Table created.

SQL> ALTER TABLE product\_sold DISABLE CONSTRAINT PROD\_SUPPLIER\_ID\_FK;

Table altered.

INSERT INTO product

(product\_id,

booking\_id,

supplier\_id,

prod\_name,

prod\_start\_date,

prod\_end\_date,

prod\_description,

prod\_base\_price,

class\_code,

prod\_cat\_id)

SELECT

product\_id,

booking\_id,

product\_supplier\_id,

product,

trip\_start,

trip\_end,

description,

base\_price,

class,

product\_category

FROM sale\_data;

SQL> commit;

Commit complete.

SQL> SELECT ROWID,PRODuct\_ID, BOOKING\_ID,SUPPLIER\_ID FROM PRODUCT

2 WHERE ROWID IN (SELECT ROWID FROM EXCEPTIONS)

3 FOR UPDATE;

no rows selected

SQL> SELECT SUPPLIER\_ID FROM PRODUCT

2 WHERE SUPPLIER\_ID NOT IN (SELECT SUPPLIER\_ID FROM SUPPLIER);

SUPPLIER\_ID

-----------

1194

REM YES! There is a value=150 in product\_supplier\_id column in sale\_data that is not in REM product\_supplier\_id column in the supplier\_data

REM I delete this value and flag it to show to client.

SQL> DELETE product 2 WHERE supplier\_id=1194;

1 rows deleted.

SQL> ALTER TABLE product

2 ENABLE VALIDATE CONSTRAINT PROD\_SUPPLIER\_ID\_FK

3 EXCEPTIONS INTO EXCEPTIONS;

Table altered.

SQL> select count(\*) from product;

COUNT(\*)

----------

1340

SQL> SELECT PRODuct\_ID, BOOKING\_ID,SUPPLIER\_ID, PROD\_NAME,PROD\_START\_DATE,PROD\_END\_DATE

2 FROM PRODUCT\_SOLD

3 WHERE rownum <=10

4 ORDER BY SUPPLIER\_ID;

PROD\_SALE\_ID BOOKING\_ID SUPPLIER\_ID PROD\_NAME PROD\_STAR PROD\_END\_

------------ ---------- ----------- -------------------- --------- ---------

818 818 43 Car rental 15-MAR-08 05-APR-08

817 817 108 Tours 22-MAR-08 16-APR-08

816 816 108 Tours 22-MAR-08 16-APR-08

820 820 243 Travel Insurance 15-MAR-08 05-APR-08

812 812 391 Yacht/Boat Charters 08-MAR-08 30-MAR-08

811 811 391 Yacht/Boat Charters 08-MAR-08 30-MAR-08

813 813 396 Tours 15-MAR-08 05-APR-08

814 814 396 Tours 15-MAR-08 05-APR-08

819 819 408 Attractions 26-MAR-08 26-MAR-08

815 815 908 Hotel 22-MAR-08 01-APR-08

10 rows selected.

## Insert Data into TAX Table

REM =========================== **INSERT DATA INTO TAX TABLE** ============================

REM I don't have data related to tax but I insert one record as an example:

TRUNCATE TABLE TAX ;

DROP SEQUENCE tax\_seq;

CREATE SEQUENCE tax\_seq

START WITH 1

MAXVALUE 10000

INCREMENT BY 1

NOCACHE

NOCYCLE;

INSERT INTO tax

VALUES (tax\_seq.nextval,'GST', 0.5,'EXAMPLE','2010');

SQL> SELECT \* FROM TAX;

TAX\_ID TAX\_CODE TAX\_AMOUNT TAX\_DESCRIPTION TAX\_

---------- ---------- ---------- -------------------- ----

1 GST .5 EXAMPLE 2010

SQL> COMMIT;

Commit complete.

**Loading Data**

**BY**

**Control File**

# Loading Data by Control File

## AFFILIATION Table Control File

-- sqlldr towner/travelxp456 control=C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.ctl, log=C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.log

LOAD DATA

INFILE\*

BADFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.dsc'

TRUNCATE INTO TABLE affiliation

FIELDS TERMINATED BY "," OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(affiliation\_code CHAR,

affiliation\_name CHAR)

BEGINDATA

ACTA,Association of Canadian Travel Agents

ACTANEW,

ACTANEWP,

ACTAPGY,

NEW,

NEWPGY,

PGY,

## AFFILIATION Table Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Wed Nov 30 11:28:18 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.ctl

Data File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.ctl

Bad File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.bad

Discard File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\affiliation.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 0

Errors allowed: 50

Bind array: 64 rows, maximum of 256000 bytes

Continuation: none specified

Path used: Conventional

Table AFFILIATION, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

AFFILIATION\_CODE FIRST \* , O(") CHARACTER

AFFILIATION\_NAME NEXT \* , O(") CHARACTER

Table AFFILIATION:

7 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Space allocated for bind array: 33024 bytes(64 rows)

Read buffer bytes: 1048576

Total logical records skipped: 0

Total logical records read: 7

Total logical records rejected: 0

Total logical records discarded: 0

Run began on Wed Nov 30 11:28:18 2016

Run ended on Wed Nov 30 11:28:18 2016

Elapsed time was: 00:00:00.22

CPU time was: 00:00:00.03

## AGENT\_EMP Table Control File

-- sqlldr towner/travelxp456 control=C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.ctl, log=C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.log

LOAD DATA

INFILE\*

BADFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.dsc'

APPEND INTO TABLE agent\_emp

FIELDS TERMINATED BY "," OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(emp\_num INTEGER EXTERNAL,

emp\_id CHAR,

emp\_fname CHAR,

emp\_lname CHAR,

office\_id INTEGER EXTERNAL)

BEGINDATA

1,JD,Janet,Delton,1

2,JL,Judy,Lisle,1

3,DR,Dennis C.,Reynolds,1

4,JC,John,Coville,1

5,JD,Janice W.,Dahl,1

6,BD,Bruce J.,Dixon,1

7,BJ,Beverly S.,Jones,1

8,JM,Jane,Merrill,1

9,BP,Brain S.,Peterson,1

## AGENT\_EMP Table Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Wed Nov 30 00:26:40 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.ctl

Data File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.ctl

Bad File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.bad

Discard File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\agent\_emp.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 0

Errors allowed: 50

Bind array: 64 rows, maximum of 256000 bytes

Continuation: none specified

Path used: Conventional

Table AGENT\_EMP, loaded from every logical record.

Insert option in effect for this table: APPEND

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

EMP\_NUM FIRST \* , O(") CHARACTER

EMP\_ID NEXT \* , O(") CHARACTER

EMP\_FNAME NEXT \* , O(") CHARACTER

EMP\_LNAME NEXT \* , O(") CHARACTER

OFFICE\_ID NEXT \* , O(") CHARACTER

Table AGENT\_EMP:

9 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Space allocated for bind array: 82560 bytes(64 rows)

Read buffer bytes: 1048576

Total logical records skipped: 0

Total logical records read: 9

Total logical records rejected: 0

Total logical records discarded: 0

Run began on Wed Nov 30 00:26:40 2016

Run ended on Wed Nov 30 00:26:41 2016

Elapsed time was: 00:00:00.48

CPU time was: 00:00:00.03

## CLASS\_TYPE Table Control File

-- sqlldr towner/travelxp456 control=C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.ctl, log=C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.log

LOAD DATA

INFILE\*

BADFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.dsc'

TRUNCATE INTO TABLE class\_type

FIELDS TERMINATED BY "," OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(class\_code CHAR,

class\_name CHAR)

BEGINDATA

FST,First Class

BSN,Business

ECN,Economy

OCNV,Ocean View

INT, Interior

DLX,Deluxe

DBL,Double

SNG,Single

## CLASS\_TYPE Table Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Wed Nov 30 11:18:49 2016

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Control File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.ctl

Data File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.ctl

Bad File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.bad

Discard File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\class\_type.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 0

Errors allowed: 50

Bind array: 64 rows, maximum of 256000 bytes

Continuation: none specified

Path used: Conventional

Table CLASS\_TYPE, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

CLASS\_CODE FIRST \* , O(") CHARACTER

CLASS\_NAME NEXT \* , O(") CHARACTER

Table CLASS\_TYPE:

8 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Space allocated for bind array: 33024 bytes(64 rows)

Read buffer bytes: 1048576

Total logical records skipped: 0

Total logical records read: 8

Total logical records rejected: 0

Total logical records discarded: 0

Run began on Wed Nov 30 11:18:49 2016

Run ended on Wed Nov 30 11:18:49 2016

Elapsed time was: 00:00:00.15

CPU time was: 00:00:00.06

## CREDIT\_CARD Table Control File

--sqlldr towner/travelxp456 control=C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card.ctl log=C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card.log

options(skip=1)

LOAD DATA

INFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\CARD1.csv'

badfile 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card.bad'

discardfile 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card\_disc.dsc'

truncate

INTO TABLE credit\_card

fields terminated by ',' optionally enclosed by '"'

TRAILING NULLCOLS

(customer\_id INTEGER EXTERNAL,

card\_id "credit\_card\_seq.nextval",

card\_number char,

card\_type char,

expiry\_date date "dd/mm/yyyy")

## CREDIT\_CARD Table Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Mon Dec 5 21:16:45 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card.ctl

Data File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\CARD1.csv

Bad File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card.bad

Discard File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\credit\_card\_disc.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 1

Errors allowed: 50

Bind array: 64 rows, maximum of 256000 bytes

Continuation: none specified

Path used: Conventional

Table CREDIT\_CARD, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

CUSTOMER\_ID FIRST \* , O(") CHARACTER

CARD\_ID NEXT \* , O(") CHARACTER

SQL string for column : "credit\_card\_seq.nextval"

CARD\_NUMBER NEXT \* , O(") CHARACTER

CARD\_TYPE NEXT \* , O(") CHARACTER

EXPIRY\_DATE NEXT \* , O(") DATE dd/mm/yyyy

Table CREDIT\_CARD:

232 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Space allocated for bind array: 82560 bytes(64 rows)

Read buffer bytes: 1048576

Total logical records skipped: 1

Total logical records read: 232

Total logical records rejected: 0

Total logical records discarded: 0

Run began on Mon Dec 05 21:16:45 2016

Run ended on Mon Dec 05 21:16:45 2016

Elapsed time was: 00:00:00.38

CPU time was: 00:00:00.06

## DESTINATION Table Control File

-- sqlldr towner/travelxp456 control=C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.ctl, log=C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.log

LOAD DATA

INFILE\*

BADFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.dsc'

TRUNCATE INTO TABLE DESTINATION

FIELDS TERMINATED BY "," OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(destination\_code CHAR,

destination\_name CHAR)

BEGINDATA

MED,Mediterranean

ANZ,Australia & New Zealand

AFR,Africa

ASIA,Asia

SA,South America

EU,Europe & United Kingdom

MEAST,Middle East

SP,South Pacific

NA,North America

OTHR,Other

## DESTINATION Table Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Wed Nov 30 11:25:14 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.ctl

Data File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.ctl

Bad File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.bad

Discard File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\destination.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 0

Errors allowed: 50

Bind array: 64 rows, maximum of 256000 bytes

Continuation: none specified

Path used: Conventional

Table DESTINATION, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

DESTINATION\_CODE FIRST \* , O(") CHARACTER

DESTINATION\_NAME NEXT \* , O(") CHARACTER

Table DESTINATION:

10 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Space allocated for bind array: 33024 bytes(64 rows)

Read buffer bytes: 1048576

Total logical records skipped: 0

Total logical records read: 10

Total logical records rejected: 0

Total logical records discarded: 0

Run began on Wed Nov 30 11:25:14 2016

Run ended on Wed Nov 30 11:25:14 2016

Elapsed time was: 00:00:00.25

CPU time was: 00:00:00.04

## PRODUCT\_CATEGORY Table Control File

-- sqlldr towner/travelxp456 control=C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.ctl, log=C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.log

LOAD DATA

INFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.cvs'

BADFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.bad'

DISCARDFILE 'C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.dsc'

TRUNCATE INTO TABLE product\_category

FIELDS TERMINATED BY "," OPTIONALLY ENCLOSED BY '"'

TRAILING NULLCOLS

(product\_cat\_id INTEGER EXTERNAL,

product\_cat\_name CHAR,

product\_cat\_min\_range INTEGER EXTERNAL,

product\_cat\_max\_range INTEGER EXTERNAL

)

## PRODUCT\_CATEGORY Table Log File

SQL\*Loader: Release 11.2.0.2.0 - Production on Wed Nov 30 11:15:41 2016

Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.

Control File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.ctl

Data File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.cvs

Bad File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.bad

Discard File: C:\Users\Nick\Desktop\471project\controlfiles\_loading\prod\_cat.dsc

(Allow all discards)

Number to load: ALL

Number to skip: 0

Errors allowed: 50

Bind array: 64 rows, maximum of 256000 bytes

Continuation: none specified

Path used: Conventional

Table PRODUCT\_CATEGORY, loaded from every logical record.

Insert option in effect for this table: TRUNCATE

TRAILING NULLCOLS option in effect

Column Name Position Len Term Encl Datatype

------------------------------ ---------- ----- ---- ---- ---------------------

PRODUCT\_CAT\_ID FIRST \* , O(") CHARACTER

PRODUCT\_CAT\_NAME NEXT \* , O(") CHARACTER

PRODUCT\_CAT\_MIN\_RANGE NEXT \* , O(") CHARACTER

PRODUCT\_CAT\_MAX\_RANGE NEXT \* , O(") CHARACTER

Table PRODUCT\_CATEGORY:

11 Rows successfully loaded.

0 Rows not loaded due to data errors.

0 Rows not loaded because all WHEN clauses were failed.

0 Rows not loaded because all fields were null.

Space allocated for bind array: 66048 bytes(64 rows)

Read buffer bytes: 1048576

Total logical records skipped: 0

Total logical records read: 11

Total logical records rejected: 0

Total logical records discarded: 0

Run began on Wed Nov 30 11:15:41 2016

Run ended on Wed Nov 30 11:15:41 2016

Elapsed time was: 00:00:00.23

CPU time was: 00:00:00.05

**Verifications**

# General Verification for Tables

================================= **GENERAL VERIFICATION FOR TABLES** =========================

SET linesize 120

SET PAGESIZE 50

COL TABLE\_NAME FOR A20

COL COLUMN\_NAME FOR A35

COL DATA\_TYPE FOR A20

COL DATA\_DEFAULT FOR A20

col OBJECT\_NAME FOR A35

SQL> CONN sys/oracle as sysdba

Connected.

SQL> SELECT TABLE\_NAME, TABLESPACE\_NAME,OWNER FROM DBA\_TABLES

2 WHERE OWNER = 'TOWNER'

3 ORDER BY tablespace\_name;

TABLE\_NAME TABLESPACE\_NAME OWNER

-------------------- -------------------- --------------------

CUSTOMER\_DATA ADHOC TOWNER

SUPPLIER\_DATA ADHOC TOWNER

SALE\_DATA ADHOC TOWNER

TAX USER\_DATA TOWNER

CREDIT\_CARD USER\_DATA TOWNER

PRODUCT\_SOLD USER\_DATA TOWNER

AGENT\_OFFICE USER\_DATA TOWNER

TRIP\_TYPE USER\_DATA TOWNER

PAYMENT\_TYPE USER\_DATA TOWNER

DESTINATION USER\_DATA TOWNER

CLASS\_TYPE USER\_DATA TOWNER

AFFILIATION USER\_DATA TOWNER

PRODUCT\_CATEGORY USER\_DATA TOWNER

AGENT\_EMP USER\_DATA TOWNER

CUSTOMER USER\_DATA TOWNER

BOOKING USER\_DATA TOWNER

SUPPLIER USER\_DATA TOWNER

TRAVELLER USER\_DATA TOWNER

ITIN\_INVOICE USER\_DATA TOWNER

19 rows selected.

SQL> SELECT T.TABLESPACE\_NAME, D.FILE\_NAME

2 FROM DBA\_TABLESPACES T JOIN DBA\_DATA\_FILES D

3 ON T.TABLESPACE\_NAME=D.TABLESPACE\_NAME

4 ORDER BY TABLESPACE\_NAME;

TABLESPACE\_NAME FILE\_NAME

--------------- ------------------------------

ADHOC C:\TRAVELXP\E\ADHOC01.DBF

INDX C:\TRAVELXP\E\INDX01.DBF

READ\_ONLY C:\TRAVELXP\D\READ\_ONLY01.DBF

SYSAUX C:\TRAVELXP\D\SYSAUX01.DBF

SYSTEM C:\TRAVELXP\SYSTEM01.DBF

UNDOTBS1 C:\TRAVELXP\E\UNDOTBS01.DBF

USER\_DATA C:\TRAVELXP\E\USERDATA01.DBF

TEMP C:\Travelxp\D\TEMP01.TMP

8 rows selected.

SQL> conn towner/travel456

Connected.

SQL>

SQL> SELECT table\_name, status FROM user\_tables;

TABLE\_NAME STATUS

------------------ --------

DESTINATION VALID

TRIP\_TYPE VALID

PAYMENT\_TYPE VALID

CLASS\_TYPE VALID

AFFILIATION VALID

PRODUCT\_CATEGORY VALID

AGENT\_EMP VALID

TRAVELLER VALID

AGENT\_OFFICE VALID

CUSTOMER VALID

ITIN\_INVOICE VALID

CREDIT\_CARD VALID

SALE\_DATA VALID

SUPPLIER\_DATA VALID

SUPPLIER VALID

EXCEPTIONS VALID

TAX VALID

CUSTOMER\_DATA VALID

BOOKING VALID

19 rows selected.

SQL> SELECT \* FROM user\_cons\_columns;

OWNER CONSTRAINT\_NAME TABLE\_NAME COLUMN\_NAME POSITION

---------- ------------------------------ ------------------ ------------------------- ----------

TOWNER AFFILIATION\_CODE\_PK AFFILIATION AFFILIATION\_CODE 1

TOWNER AGENT\_NUM\_PK AGENT\_EMP EMP\_NUM 1

TOWNER OFFICE\_ID\_PK AGENT\_OFFICE OFFICE\_ID 1

TOWNER SYS\_C004396 BOOKING TRIP\_END\_DATE

TOWNER SYS\_C004395 BOOKING TRIP\_START\_DATE

TOWNER SYS\_C004394 BOOKING BOOKING\_DATE

TOWNER SYS\_C004393 BOOKING BOOKING\_NO

TOWNER BOOK\_FEE\_CODE\_FK BOOKING FEE\_CODE 1

TOWNER BOOK\_TRIP\_CODE\_FK BOOKING TRIP\_CODE 1

TOWNER BOOK\_EMP\_NUM\_FK BOOKING EMP\_NUM 1

TOWNER BOOK\_ITIN\_INVC\_ID\_FK BOOKING ITIN\_INVC\_ID 1

TOWNER BOOK\_DESTIN\_CODE\_FK BOOKING DESTINATION\_CODE 1

TOWNER BOOKING\_ID\_PK BOOKING BOOKING\_ID 1

TOWNER CLASS\_CODE\_PK CLASS\_TYPE CLASS\_CODE 1

TOWNER SYS\_C004390 CREDIT\_CARD EXPIRY\_DATE

TOWNER SYS\_C004389 CREDIT\_CARD CARD\_NUMBER

TOWNER CUSTOMER\_ID\_FK CREDIT\_CARD CUSTOMER\_ID 1

TOWNER CARD\_CUSTOMER\_ID\_PK CREDIT\_CARD CUSTOMER\_ID 2

TOWNER CARD\_CUSTOMER\_ID\_PK CREDIT\_CARD CARD\_ID 1

TOWNER SYS\_C004386 CUSTOMER CUSTOMER\_FNAME

TOWNER SYS\_C004388 CUSTOMER CUSTOMER\_HOME\_PHONE

TOWNER SYS\_C004387 CUSTOMER CUSTOMER\_LNAME

TOWNER CUSTOMER\_ID\_PK CUSTOMER CUSTOMER\_ID 1

TOWNER SYS\_C003602 CUSTOMER\_DATA CUST\_ID 1

TOWNER SYS\_C003601 CUSTOMER\_DATA LNAME

TOWNER SYS\_C003600 CUSTOMER\_DATA FNAME

TOWNER DESTINATION\_DEST\_ID\_PK DESTINATION DESTINATION\_CODE 1

TOWNER SYS\_C004392 ITIN\_INVOICE ITIN\_INVC\_DATE

TOWNER SYS\_C004391 ITIN\_INVOICE ITIN\_INVC\_NO

TOWNER INVOICE\_PAY\_TYPE\_ID\_FK ITIN\_INVOICE PAY\_TYPE 1

TOWNER ITIN\_INVC\_ID\_PK ITIN\_INVOICE ITIN\_INVC\_ID 1

TOWNER PAY\_TYPE\_ID\_PK PAYMENT\_TYPE PAY\_TYPE 1

TOWNER PRODUCT\_CAT\_ID\_PK PRODUCT\_CATEGORY PRODUCT\_CAT\_ID 1

TOWNER SYS\_C004421 SUPPLIER SUPPLIER\_COMPANY\_NAME

TOWNER SYS\_C004420 SUPPLIER SUPPLIER\_NUM

TOWNER SUP\_AFFILIATION\_CODE\_FK SUPPLIER AFFILIATION\_CODE 1

TOWNER SUPPLIER\_ID\_PK SUPPLIER SUPPLIER\_ID 1

TOWNER TAX\_ID\_PK TAX TAX\_ID 1

TOWNER CUSTOMER\_BOOKING\_ID\_PK TRAVELLER BOOKING\_ID 2

TOWNER CUSTOMER\_BOOKING\_ID\_PK TRAVELLER CUSTOMER\_ID 1

TOWNER TRIP\_TYPE\_CODE\_PK TRIP\_TYPE TRIP\_CODE 1

41 rows selected.

SQL> select CONSTRAINT\_NAME,CONSTRAINT\_TYPE,TABLE\_NAME, STATUS, DEFERRABLE

2 from user\_constraints;

CONSTRAINT\_NAME C TABLE\_NAME STATUS DEFERRABLE

------------------------------ - ------------------ -------- --------------

DESTINATION\_DEST\_ID\_PK P DESTINATION ENABLED DEFERRABLE

CUSTOMER\_ID\_PK P CUSTOMER ENABLED DEFERRABLE

TRIP\_TYPE\_CODE\_PK P TRIP\_TYPE ENABLED DEFERRABLE

SUPPLIER\_ID\_PK P SUPPLIER ENABLED DEFERRABLE

AGENT\_NUM\_PK P AGENT\_EMP ENABLED DEFERRABLE

SUP\_AFFILIATION\_CODE\_FK R SUPPLIER ENABLED DEFERRABLE

BOOKING\_ID\_PK P BOOKING ENABLED DEFERRABLE

PAY\_TYPE\_ID\_PK P PAYMENT\_TYPE ENABLED DEFERRABLE

CLASS\_CODE\_PK P CLASS\_TYPE ENABLED DEFERRABLE

CARD\_CUSTOMER\_ID\_PK P CREDIT\_CARD ENABLED DEFERRABLE

AFFILIATION\_CODE\_PK P AFFILIATION ENABLED DEFERRABLE

PRODUCT\_CAT\_ID\_PK P PRODUCT\_CATEGORY ENABLED DEFERRABLE

BOOK\_DESTIN\_CODE\_FK R BOOKING ENABLED DEFERRABLE

ITIN\_INVC\_ID\_PK P ITIN\_INVOICE ENABLED DEFERRABLE

INVOICE\_PAY\_TYPE\_ID\_FK R ITIN\_INVOICE ENABLED DEFERRABLE

BOOK\_ITIN\_INVC\_ID\_FK R BOOKING ENABLED DEFERRABLE

BOOK\_EMP\_NUM\_FK R BOOKING ENABLED DEFERRABLE

BOOK\_TRIP\_CODE\_FK R BOOKING ENABLED DEFERRABLE

CUSTOMER\_ID\_FK R CREDIT\_CARD ENABLED DEFERRABLE

PROD\_SUPP\_BOOK\_PK P PRODUCT\_SOLD ENABLED DEFERRABLE

PROD\_BOOKING\_ID\_FK R PRODUCT\_SOLD ENABLED DEFERRABLE

CUSTOMER\_BOOKING\_ID\_PK P TRAVELLER ENABLED DEFERRABLE

PROD\_PRODUCT\_CAT\_ID\_FK R PRODUCT\_SOLD ENABLED DEFERRABLE

TAX\_ID\_PK P TAX ENABLED DEFERRABLE

PROD\_TAX\_ID\_FK R PRODUCT\_SOLD ENABLED DEFERRABLE

OFFICE\_ID\_PK P AGENT\_OFFICE ENABLED DEFERRABLE

27 rows selected.

SQL> select OBJECT\_NAME,OBJECT\_TYPE from user\_objects;

OBJECT\_NAME OBJECT\_TYPE

------------------------- -------------------

CITY\_SEQ SEQUENCE

OFFICE\_ID\_IDX INDEX

AGENT\_OFFICE TABLE

PROD\_SUPP\_BOOK\_IDX INDEX

EXCEPTIONS TABLE

PRODUCT\_CATEGORY TABLE

AFFILIATION TABLE

CUSTOMER\_BOOKING\_ID\_IDX INDEX

TRAVELLER TABLE

CLASS\_CODE\_IDX INDEX

CLASS\_TYPE TABLE

PAY\_TYPE\_IDX INDEX

PAYMENT\_TYPE TABLE

AGENT\_EMP TABLE

AGENT\_NUM\_IDX INDEX

PRODUCT\_CAT\_ID\_IDX INDEX

TRIP\_TYPE\_CODE\_IDX INDEX

TRIP\_TYPE TABLE

AFFIL\_CODE\_\_IDX INDEX

DESTINATION\_DEST\_ID\_IDX INDEX

DESTINATION TABLE

SUPPLIER\_ID\_IDX INDEX

SUPPLIER TABLE

SUPPLIER\_SEQ SEQUENCE

TAX\_SEQ SEQUENCE

TAX TABLE

TAX\_ID\_IDX INDEX

CREDIT\_CARD TABLE

CREDIT\_CARD\_SEQ SEQUENCE

SALE\_DATA TABLE

CARD\_CUSTOMER\_ID\_IDX INDEX

TRIP\_TYPE\_SEQ SEQUENCE

AGENT\_OFFICE\_SEQ SEQUENCE

AGENT\_EMP\_SEQ SEQUENCE

PRODUCT\_CATEGORY\_SEQ SEQUENCE

AFFILIATION\_SEQ SEQUENCE

CLASS\_TYPE\_SEQ SEQUENCE

REGION\_SEQ SEQUENCE

ITIN\_INVOICE\_SEQ SEQUENCE

BOOKING TABLE

ITIN\_INVC\_ID\_IDX INDEX

ITIN\_INVOICE TABLE

SUPPLIER1\_SEQ SEQUENCE

BOOKING\_ID\_IDX INDEX

CUSTOMER\_ID\_IDX INDEX

CUSTOMER TABLE

CUSTOMER\_DATA TABLE

SUPPLIER\_DATA TABLE

48 rows selected.

SQL> SELECT \* FROM user\_SEQUENCES;

SEQUENCE\_NAME MIN\_VALUE MAX\_VALUE INCREMENT\_BY C O CACHE\_SIZE LAST\_NUMBER

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AFFILIATION\_SEQ 1 10000 1 N N 0 1

AGENT\_EMP\_SEQ 1 10000 1 N N 0 1

AGENT\_OFFICE\_SEQ 1 10000 1 N N 0 3

CITY\_SEQ 1 10000 1 N N 0 1

CLASS\_TYPE\_SEQ 1 10000 1 N N 0 1

CREDIT\_CARD\_SEQ 1 10000 1 N N 0 751

ITIN\_INVOICE\_SEQ 1 10000 1 N N 0 1342

PRODUCT\_CATEGORY\_SEQ 1 10000 1 N N 0 1

SUPPLIER1\_SEQ 1 10000 1 N N 0 1

SUPPLIER\_SEQ 1 10000 1 N N 0 1194

TAX\_SEQ 1 10000 1 N N 0 2

TRIP\_TYPE\_SEQ 1 10000 1 N N 0 4

12 rows selected.

SQL>

SQL>

SQL> SELECT INDEX\_NAME, INDEX\_TYPE, TABLE\_NAME, UNIQUENESS, STATUS

2 FROM USER\_INDEXES;

INDEX\_NAME INDEX\_TYPE TABLE\_NAME UNIQUENES STATUS

------------------------------ --------------------------- ------------------ --------- --------

TRIP\_TYPE\_CODE\_IDX NORMAL TRIP\_TYPE NONUNIQUE VALID

CUSTOMER\_BOOKING\_ID\_IDX NORMAL TRAVELLER NONUNIQUE VALID

TAX\_ID\_IDX NORMAL TAX NONUNIQUE VALID

SUPPLIER\_ID\_IDX NORMAL SUPPLIER NONUNIQUE VALID

PROD\_SUPP\_BOOK\_IDX NORMAL PRODUCT\_SOLD NONUNIQUE VALID

PRODUCT\_CAT\_ID\_IDX NORMAL PRODUCT\_CATEGORY NONUNIQUE VALID

PAY\_TYPE\_IDX NORMAL PAYMENT\_TYPE NONUNIQUE VALID

ITIN\_INVC\_ID\_IDX NORMAL ITIN\_INVOICE NONUNIQUE VALID

DESTINATION\_DEST\_ID\_IDX NORMAL DESTINATION NONUNIQUE VALID

CUSTOMER\_ID\_IDX NORMAL CUSTOMER NONUNIQUE VALID

CARD\_CUSTOMER\_ID\_IDX NORMAL CREDIT\_CARD NONUNIQUE VALID

VALID

CLASS\_CODE\_IDX NORMAL CLASS\_TYPE NONUNIQUE VALID

BOOKING\_ID\_IDX NORMAL BOOKING NONUNIQUE VALID

OFFICE\_ID\_IDX NORMAL AGENT\_OFFICE NONUNIQUE VALID

AGENT\_NUM\_IDX NORMAL AGENT\_EMP NONUNIQUE VALID

AFFIL\_CODE\_\_IDX NORMAL AFFILIATION NONUNIQUE VALID

16 rows selected.

SQL> SELECT table\_name, column\_name, data\_type,

2 data\_length, data\_default, nullable

3 FROM user\_tab\_columns;

TABLE\_NAME COLUMN\_NAME DATA\_TYPE DATA\_LENGTH DATA\_DEFAULT N

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CUSTOMER\_DATA CUST\_ID NUMBER 22 N

CUSTOMER\_DATA FNAME VARCHAR2 15 N

CUSTOMER\_DATA LNAME VARCHAR2 15 N

CUSTOMER\_DATA AGENT VARCHAR2 3 Y

CUSTOMER\_DATA EMAIL VARCHAR2 30 Y

CUSTOMER\_DATA HOME\_PHONE VARCHAR2 15 Y

CUSTOMER\_DATA B\_PHONE VARCHAR2 15 Y

CUSTOMER\_DATA BIRTH\_DATE DATE 7 Y

CUSTOMER\_DATA ADDRESS VARCHAR2 40 Y

CUSTOMER\_DATA CITY VARCHAR2 10 Y

CUSTOMER\_DATA POSTAL\_CODE VARCHAR2 10 Y

CUSTOMER\_DATA PROVINCE VARCHAR2 10 Y

CUSTOMER\_DATA COUNTRY VARCHAR2 10 Y

SUPPLIER\_DATA PRODUCT\_SUPPLIER NUMBER 22 Y

SUPPLIER\_DATA PRODUCT\_CATEGORY NUMBER 22 Y

SUPPLIER\_DATA SUPPLIER\_OFFICE CHAR 2 Y

SUPPLIER\_DATA PRODUCT\_DESCRIPTION VARCHAR2 30 Y

SUPPLIER\_DATA CONTACT\_NAME VARCHAR2 30 Y

SUPPLIER\_DATA COMPANY VARCHAR2 75 Y

SUPPLIER\_DATA ADDRESS1 VARCHAR2 30 Y

SUPPLIER\_DATA ADDRESS2 VARCHAR2 30 Y

SUPPLIER\_DATA CITY VARCHAR2 25 Y

SUPPLIER\_DATA PROV\_STATE VARCHAR2 5 Y

SUPPLIER\_DATA ZIP\_POSTAL VARCHAR2 10 Y

SUPPLIER\_DATA COUNTRY VARCHAR2 20 Y

SUPPLIER\_DATA PHONE VARCHAR2 15 Y

SUPPLIER\_DATA FAX VARCHAR2 15 Y

SUPPLIER\_DATA EMAIL VARCHAR2 40 Y

SUPPLIER\_DATA WEB VARCHAR2 40 Y

SUPPLIER\_DATA REPRESENTS VARCHAR2 30 Y

SUPPLIER\_DATA AFFILIATION VARCHAR2 15 Y

CREDIT\_CARD CUSTOMER\_ID NUMBER 22 N

CREDIT\_CARD CARD\_ID NUMBER 22 N

CREDIT\_CARD CARD\_NUMBER VARCHAR2 30 N

CREDIT\_CARD CARD\_TYPE VARCHAR2 20 Y

CREDIT\_CARD EXPIRY\_DATE DATE 7 N

SALE\_DATA SALE DATE 7 Y

SALE\_DATA CUST\_ID NUMBER 22 Y

SALE\_DATA ITINERARY\_ID NUMBER 22 Y

SALE\_DATA ITINERARY\_NUM NUMBER 22 Y

SALE\_DATA EMP\_NUM NUMBER 22 Y

SALE\_DATA AGENT CHAR 3 Y

SALE\_DATA BOOKING\_ID NUMBER 22 Y

SALE\_DATA BOOKING\_NUM VARCHAR2 20 Y

SALE\_DATA PRODUCT\_CATEGORY NUMBER 22 Y

SALE\_DATA PRODUCT\_SUPPLIER\_ID NUMBER 22 Y

SALE\_DATA SUPPLIER\_OFFICE CHAR 2 Y

SALE\_DATA TRIP\_START DATE 7 Y

SALE\_DATA TRIP\_END DATE 7 Y

SALE\_DATA CLASS VARCHAR2 5 Y

SALE\_DATA NUM\_OF\_TRAVELERS NUMBER 22 Y

SALE\_DATA PRODUCT\_ID NUMBER 22 Y

SALE\_DATA PRODUCT VARCHAR2 50 Y

SALE\_DATA DESCRIPTION VARCHAR2 50 Y

SALE\_DATA DESTINATION VARCHAR2 35 Y

SALE\_DATA DEST\_ID VARCHAR2 5 Y

SALE\_DATA CREDIT\_CARD VARCHAR2 10 Y

SALE\_DATA EXPIRY\_DATE DATE 7 Y

SALE\_DATA CARD\_NUMBER VARCHAR2 20 Y

SALE\_DATA BILLING\_DATE DATE 7 Y

SALE\_DATA BILL\_DESCRIPTION VARCHAR2 15 Y

SALE\_DATA BASE\_PRICE NUMBER 22 Y

SALE\_DATA TOTAL\_PRICE NUMBER 22 Y

SALE\_DATA BILLED\_AMT NUMBER 22 Y

SALE\_DATA AGENCY\_FEE\_CODE VARCHAR2 5 Y

SALE\_DATA AGENCY\_FEE\_AMOUNT NUMBER 22 Y

SALE\_DATA AGENCY\_COMMISSION NUMBER 22 Y

TAX TAX\_ID NUMBER 22 Y

TAX TAX\_CODE VARCHAR2 10 Y

TAX TAX\_AMOUNT NUMBER 22 Y

TAX TAX\_DESCRIPTION VARCHAR2 20 Y

TAX TAX\_YEAR VARCHAR2 4 Y

EXCEPTIONS OWNER VARCHAR2 30 Y

EXCEPTIONS TABLE\_NAME VARCHAR2 30 Y

EXCEPTIONS CONSTRAINT VARCHAR2 30 Y

SUPPLIER SUPPLIER\_ID NUMBER 22 Y

SUPPLIER SUPPLIER\_NUM NUMBER 22 N

SUPPLIER SUPPLIER\_NAME VARCHAR2 40 Y

SUPPLIER SUPPLIER\_COMPANY\_NAME VARCHAR2 80 N

SUPPLIER SUPPLIER\_OFFICE VARCHAR2 3 Y

SUPPLIER SUPPLIER\_PHONE VARCHAR2 18 Y

SUPPLIER SUPPLIER\_FAX VARCHAR2 18 Y

SUPPLIER SUPPLIER\_ADDRESS1 VARCHAR2 50 Y

SUPPLIER SUPPLIER\_ADDRESS2 VARCHAR2 50 Y

SUPPLIER SUPPLIER\_ZIPCODE VARCHAR2 10 Y

SUPPLIER SUPPLIER\_EMAIL VARCHAR2 40 Y

SUPPLIER SUPPLIER\_WEBSITE VARCHAR2 40 Y

SUPPLIER REPRESENTATIVE VARCHAR2 30 Y

SUPPLIER SUPPLIER\_CITY VARCHAR2 30 Y

SUPPLIER SUPPLIER\_PROVINCE VARCHAR2 20 Y

SUPPLIER SUPPLIER\_COUNTRY VARCHAR2 30 Y

SUPPLIER AFFILIATION\_CODE VARCHAR2 10 Y

DESTINATION DESTINATION\_CODE VARCHAR2 10 Y

DESTINATION DESTINATION\_NAME VARCHAR2 30 Y

TRIP\_TYPE TRIP\_CODE VARCHAR2 3 Y

TRIP\_TYPE TRIP\_TYPE VARCHAR2 10 Y

PAYMENT\_TYPE PAY\_TYPE VARCHAR2 15 Y

CLASS\_TYPE CLASS\_CODE VARCHAR2 6 Y

CLASS\_TYPE CLASS\_NAME VARCHAR2 15 Y

AFFILIATION AFFILIATION\_CODE VARCHAR2 10 Y

AFFILIATION AFFILIATION\_NAME VARCHAR2 40 Y

PRODUCT\_CATEGORY PRODUCT\_CAT\_ID NUMBER 22 Y

PRODUCT\_CATEGORY PRODUCT\_CAT\_NAME VARCHAR2 35 Y

PRODUCT\_CATEGORY PRODUCT\_CAT\_MIN\_RANGE NUMBER 22 Y

PRODUCT\_CATEGORY PRODUCT\_CAT\_MAX\_RANGE NUMBER 22 Y

AGENT\_EMP EMP\_NUM NUMBER 22 Y

AGENT\_EMP EMP\_ID VARCHAR2 5 Y

AGENT\_EMP EMP\_FNAME VARCHAR2 20 Y

AGENT\_EMP EMP\_LNAME VARCHAR2 20 Y

AGENT\_EMP OFFICE\_ID NUMBER 22 Y

TRAVELLER CUSTOMER\_ID NUMBER 22 Y

TRAVELLER BOOKING\_ID NUMBER 22 Y

AGENT\_OFFICE OFFICE\_ID NUMBER 22 Y

AGENT\_OFFICE AGENT\_NAME VARCHAR2 25 Y

AGENT\_OFFICE AGENT\_ADDRESS VARCHAR2 40 Y

AGENT\_OFFICE AGENT\_ZIPCODE VARCHAR2 10 Y

AGENT\_OFFICE AGENT\_PHONE VARCHAR2 18 Y

AGENT\_OFFICE AGENT\_FAX VARCHAR2 18 Y

CUSTOMER CUSTOMER\_ID NUMBER 22 Y

CUSTOMER CUSTOMER\_FNAME VARCHAR2 20 N

CUSTOMER CUSTOMER\_LNAME VARCHAR2 20 N

CUSTOMER CUSTOMER\_BIRTH\_DATE DATE 7 Y

CUSTOMER CUSTOMER\_EMAIL VARCHAR2 40 Y

CUSTOMER CUSTOMER\_HOME\_PHONE VARCHAR2 40 N

CUSTOMER CUSTOMER\_BUSINESS\_PHONE VARCHAR2 18 Y

CUSTOMER CUSTOMER\_ADDRESS VARCHAR2 50 Y

CUSTOMER CUSTOMER\_ZIPCODE VARCHAR2 10 Y

CUSTOMER CUSTOMER\_CITY VARCHAR2 30 Y

CUSTOMER CUSTOMER\_PROVINCE VARCHAR2 20 Y

CUSTOMER CUSTOMER\_COUNTRY VARCHAR2 30 Y

CUSTOMER CUSTOMER\_DEPENDENT NUMBER 22 Y

ITIN\_INVOICE ITIN\_INVC\_ID NUMBER 22 Y

ITIN\_INVOICE ITIN\_INVC\_NO NUMBER 22 N

ITIN\_INVOICE ITIN\_INVC\_DATE DATE 7 N

ITIN\_INVOICE NO\_OF\_TRAVELLER NUMBER 22 Y

ITIN\_INVOICE BILLED\_AMOUNT NUMBER 22 Y

ITIN\_INVOICE PAY\_TYPE VARCHAR2 15 Y

BOOKING BOOKING\_ID NUMBER 22 Y

BOOKING BOOKING\_NO VARCHAR2 15 N

BOOKING BOOKING\_DATE DATE 7 N

BOOKING TRIP\_START\_DATE DATE 7 N

BOOKING TRIP\_END\_DATE DATE 7 N

BOOKING DESTINATION\_DESC VARCHAR2 50 Y

BOOKING DESTINATION\_CODE VARCHAR2 10 Y

BOOKING ITIN\_INVC\_ID NUMBER 22 Y

BOOKING EMP\_NUM NUMBER 22 Y

BOOKING TRIP\_CODE VARCHAR2 3 Y

BOOKING FEE\_CODE VARCHAR2 5 Y

EXCEPTIONS ROW\_ID UROWID 4000 Y

149 rows selected.

SQL> select index\_name,table\_name,column\_name

2 from user\_ind\_columns;

INDEX\_NAME TABLE\_NAME COLUMN\_NAME

------------------------------ ------------------ -------------------------

AFFIL\_CODE\_\_IDX AFFILIATION AFFILIATION\_CODE

AGENT\_NUM\_IDX AGENT\_EMP EMP\_NUM

BOOKING\_ID\_IDX BOOKING BOOKING\_ID

CARD\_CUSTOMER\_ID\_IDX CREDIT\_CARD CUSTOMER\_ID

CARD\_CUSTOMER\_ID\_IDX CREDIT\_CARD CARD\_ID

CLASS\_CODE\_IDX CLASS\_TYPE CLASS\_CODE

CUSTOMER\_BOOKING\_ID\_IDX TRAVELLER BOOKING\_ID

CUSTOMER\_BOOKING\_ID\_IDX TRAVELLER CUSTOMER\_ID

CUSTOMER\_ID\_IDX CUSTOMER CUSTOMER\_ID

DESTINATION\_DEST\_ID\_IDX DESTINATION DESTINATION\_CODE

ITIN\_INVC\_ID\_IDX ITIN\_INVOICE ITIN\_INVC\_ID

OFFICE\_ID\_IDX AGENT\_OFFICE OFFICE\_ID

PAY\_TYPE\_IDX PAYMENT\_TYPE PAY\_TYPE

PRODUCT\_CAT\_ID\_IDX PRODUCT\_CATEGORY PRODUCT\_CAT\_ID

PROD\_SUPP\_BOOK\_IDX PRODUCT\_SOLD SUPPLIER\_ID

PROD\_SUPP\_BOOK\_IDX PRODUCT\_SOLD BOOKING\_ID

PROD\_SUPP\_BOOK\_IDX PRODUCT\_SOLD PROD\_SALE\_ID

SUPPLIER\_ID\_IDX SUPPLIER SUPPLIER\_ID

TAX\_ID\_IDX TAX TAX\_ID

TRIP\_TYPE\_CODE\_IDX TRIP\_TYPE TRIP\_CODE

21 rows selected.

SQL> SELECT Table\_name, column\_name, data\_type, data\_length, data\_default

2 FROM user\_tab\_columns;

TABLE\_NAME COLUMN\_NAME DATA\_TYPE DATA\_LENGTH DATA\_DEFAULT

------------------ ------------------------- -------------------- ----------- --------------------

CUSTOMER\_DATA CUST\_ID NUMBER 22

CUSTOMER\_DATA FNAME VARCHAR2 15

CUSTOMER\_DATA LNAME VARCHAR2 15

CUSTOMER\_DATA AGENT VARCHAR2 3

CUSTOMER\_DATA EMAIL VARCHAR2 30

CUSTOMER\_DATA HOME\_PHONE VARCHAR2 15

CUSTOMER\_DATA B\_PHONE VARCHAR2 15

CUSTOMER\_DATA BIRTH\_DATE DATE 7

CUSTOMER\_DATA ADDRESS VARCHAR2 40

CUSTOMER\_DATA CITY VARCHAR2 10

CUSTOMER\_DATA POSTAL\_CODE VARCHAR2 10

CUSTOMER\_DATA PROVINCE VARCHAR2 10

CUSTOMER\_DATA COUNTRY VARCHAR2 10

SUPPLIER\_DATA PRODUCT\_SUPPLIER NUMBER 22

SUPPLIER\_DATA PRODUCT\_CATEGORY NUMBER 22

SUPPLIER\_DATA SUPPLIER\_OFFICE CHAR 2

SUPPLIER\_DATA PRODUCT\_DESCRIPTION VARCHAR2 30

SUPPLIER\_DATA CONTACT\_NAME VARCHAR2 30

SUPPLIER\_DATA COMPANY VARCHAR2 75

SUPPLIER\_DATA ADDRESS1 VARCHAR2 30

SUPPLIER\_DATA ADDRESS2 VARCHAR2 30

SUPPLIER\_DATA CITY VARCHAR2 25

SUPPLIER\_DATA PROV\_STATE VARCHAR2 5

SUPPLIER\_DATA ZIP\_POSTAL VARCHAR2 10

SUPPLIER\_DATA COUNTRY VARCHAR2 20

SUPPLIER\_DATA PHONE VARCHAR2 15

SUPPLIER\_DATA FAX VARCHAR2 15

SUPPLIER\_DATA EMAIL VARCHAR2 40

SUPPLIER\_DATA WEB VARCHAR2 40

SUPPLIER\_DATA REPRESENTS VARCHAR2 30

SUPPLIER\_DATA AFFILIATION VARCHAR2 15

CREDIT\_CARD CUSTOMER\_ID NUMBER 22

CREDIT\_CARD CARD\_ID NUMBER 22

CREDIT\_CARD CARD\_NUMBER VARCHAR2 30

CREDIT\_CARD CARD\_TYPE VARCHAR2 20

CREDIT\_CARD EXPIRY\_DATE DATE 7

SALE\_DATA SALE DATE 7

SALE\_DATA CUST\_ID NUMBER 22

SALE\_DATA ITINERARY\_ID NUMBER 22

SALE\_DATA ITINERARY\_NUM NUMBER 22

SALE\_DATA EMP\_NUM NUMBER 22

SALE\_DATA AGENT CHAR 3

SALE\_DATA BOOKING\_ID NUMBER 22

SALE\_DATA BOOKING\_NUM VARCHAR2 20

SALE\_DATA PRODUCT\_CATEGORY NUMBER 22

SALE\_DATA PRODUCT\_SUPPLIER\_ID NUMBER 22

SALE\_DATA SUPPLIER\_OFFICE CHAR 2

SALE\_DATA TRIP\_START DATE 7

SALE\_DATA TRIP\_END DATE 7

SALE\_DATA CLASS VARCHAR2 5

SALE\_DATA NUM\_OF\_TRAVELERS NUMBER 22

SALE\_DATA PRODUCT\_ID NUMBER 22

SALE\_DATA PRODUCT VARCHAR2 50

SALE\_DATA DESCRIPTION VARCHAR2 50

SALE\_DATA DESTINATION VARCHAR2 35

SALE\_DATA DEST\_ID VARCHAR2 5

SALE\_DATA CREDIT\_CARD VARCHAR2 10

SALE\_DATA EXPIRY\_DATE DATE 7

SALE\_DATA CARD\_NUMBER VARCHAR2 20

SALE\_DATA BILLING\_DATE DATE 7

SALE\_DATA BILL\_DESCRIPTION VARCHAR2 15

SALE\_DATA BASE\_PRICE NUMBER 22

SALE\_DATA TOTAL\_PRICE NUMBER 22

SALE\_DATA BILLED\_AMT NUMBER 22

SALE\_DATA AGENCY\_FEE\_CODE VARCHAR2 5

SALE\_DATA AGENCY\_FEE\_AMOUNT NUMBER 22

SALE\_DATA AGENCY\_COMMISSION NUMBER 22

TAX TAX\_ID NUMBER 22

TAX TAX\_CODE VARCHAR2 10

TAX TAX\_AMOUNT NUMBER 22

TAX TAX\_DESCRIPTION VARCHAR2 20

TAX TAX\_YEAR VARCHAR2 4

EXCEPTIONS OWNER VARCHAR2 30

EXCEPTIONS TABLE\_NAME VARCHAR2 30

EXCEPTIONS CONSTRAINT VARCHAR2 30

SUPPLIER SUPPLIER\_ID NUMBER 22  
SUPPLIER SUPPLIER\_NUM NUMBER 22

SUPPLIER SUPPLIER\_NAME VARCHAR2 40

SUPPLIER SUPPLIER\_COMPANY\_NAME VARCHAR2 80

SUPPLIER SUPPLIER\_OFFICE VARCHAR2 3

SUPPLIER SUPPLIER\_PHONE VARCHAR2 18

SUPPLIER SUPPLIER\_FAX VARCHAR2 18

SUPPLIER SUPPLIER\_ADDRESS1 VARCHAR2 50

SUPPLIER SUPPLIER\_ADDRESS2 VARCHAR2 50

SUPPLIER SUPPLIER\_ZIPCODE VARCHAR2 10

SUPPLIER SUPPLIER\_EMAIL VARCHAR2 40

SUPPLIER SUPPLIER\_WEBSITE VARCHAR2 40

SUPPLIER REPRESENTATIVE VARCHAR2 30

SUPPLIER SUPPLIER\_CITY VARCHAR2 30

SUPPLIER SUPPLIER\_PROVINCE VARCHAR2 20

SUPPLIER SUPPLIER\_COUNTRY VARCHAR2 30

SUPPLIER AFFILIATION\_CODE VARCHAR2 10

DESTINATION DESTINATION\_CODE VARCHAR2 10

DESTINATION DESTINATION\_NAME VARCHAR2 30

TRIP\_TYPE TRIP\_CODE VARCHAR2 3

TRIP\_TYPE TRIP\_TYPE VARCHAR2 10

PAYMENT\_TYPE PAY\_TYPE VARCHAR2 15

CLASS\_TYPE CLASS\_CODE VARCHAR2 6

CLASS\_TYPE CLASS\_NAME VARCHAR2 15

AFFILIATION AFFILIATION\_CODE VARCHAR2 10

AFFILIATION AFFILIATION\_NAME VARCHAR2 40

PRODUCT\_CATEGORY PRODUCT\_CAT\_ID NUMBER 22

PRODUCT\_CATEGORY PRODUCT\_CAT\_NAME VARCHAR2 35

PRODUCT\_CATEGORY PRODUCT\_CAT\_MIN\_RANGE NUMBER 22

PRODUCT\_CATEGORY PRODUCT\_CAT\_MAX\_RANGE NUMBER 22

AGENT\_EMP EMP\_NUM NUMBER 22

AGENT\_EMP EMP\_ID VARCHAR2 5

AGENT\_EMP EMP\_FNAME VARCHAR2 20

AGENT\_EMP EMP\_LNAME VARCHAR2 20

AGENT\_EMP OFFICE\_ID NUMBER 22

REWARD REWARD\_ID NUMBER 22

REWARD REWARD\_CODE VARCHAR2 25

REWARD REWARD\_NAME VARCHAR2 30

REWARD CUSTOMER\_ID NUMBER 22

TRAVELLER CUSTOMER\_ID NUMBER 22

TRAVELLER BOOKING\_ID NUMBER 22

AGENT\_OFFICE OFFICE\_ID NUMBER 22

AGENT\_OFFICE AGENT\_NAME VARCHAR2 25

AGENT\_OFFICE AGENT\_ADDRESS VARCHAR2 40

AGENT\_OFFICE AGENT\_ZIPCODE VARCHAR2 10

AGENT\_OFFICE AGENT\_PHONE VARCHAR2 18

AGENT\_OFFICE AGENT\_FAX VARCHAR2 18

CUSTOMER CUSTOMER\_ID NUMBER 22

CUSTOMER CUSTOMER\_FNAME VARCHAR2 20

CUSTOMER CUSTOMER\_LNAME VARCHAR2 20

CUSTOMER CUSTOMER\_BIRTH\_DATE DATE 7

CUSTOMER CUSTOMER\_EMAIL VARCHAR2 40

CUSTOMER CUSTOMER\_HOME\_PHONE VARCHAR2 40

CUSTOMER CUSTOMER\_BUSINESS\_PHONE VARCHAR2 18

CUSTOMER CUSTOMER\_ADDRESS VARCHAR2 50

CUSTOMER CUSTOMER\_ZIPCODE VARCHAR2 10

CUSTOMER CUSTOMER\_CITY VARCHAR2 30

CUSTOMER CUSTOMER\_PROVINCE VARCHAR2 20

CUSTOMER CUSTOMER\_COUNTRY VARCHAR2 30

CUSTOMER CUSTOMER\_DEPENDENT NUMBER 22

ITIN\_INVOICE ITIN\_INVC\_ID NUMBER 22

ITIN\_INVOICE ITIN\_INVC\_NO NUMBER 22

ITIN\_INVOICE ITIN\_INVC\_DATE DATE 7

ITIN\_INVOICE NO\_OF\_TRAVELLER NUMBER 22

ITIN\_INVOICE BILLED\_AMOUNT NUMBER 22

ITIN\_INVOICE PAY\_TYPE VARCHAR2 15

BOOKING BOOKING\_ID NUMBER 22

BOOKING BOOKING\_NO VARCHAR2 15

BOOKING BOOKING\_DATE DATE 7

BOOKING TRIP\_START\_DATE DATE 7

BOOKING TRIP\_END\_DATE DATE 7

BOOKING DESTINATION\_DESC VARCHAR2 50

BOOKING DESTINATION\_CODE VARCHAR2 10

BOOKING ITIN\_INVC\_ID NUMBER 22

BOOKING EMP\_NUM NUMBER 22

BOOKING TRIP\_CODE VARCHAR2 3

BOOKING FEE\_CODE VARCHAR2 5

EXCEPTIONS ROW\_ID UROWID 4000

149 rows selected.