## CREATING FARE SCHEMA

Step 1: Connect to database

C:\>sqlplus system/manager@xe

Step2: Create tablespace

CREATE **TABLESPACE** tbs\_fareuser DATAFILE 'tbs\_fareuser.dat' SIZE 10M AUTOEXTEND ON;

Note: alter session set "\_ORACLE\_SCRIPT"=true; This is required in Oracle 12c

Step3: Create a new user in Oracle

CREATE **USER** fareuser IDENTIFIED BY aspire123 DEFAULT TABLESPACE tbs\_fareuser QUOTA unlimited on tbs\_fareuser;

**Note**: In oracle a schema is created when a user is created.

Step4: Grant permissions

GRANT create session TO fareuser;

GRANT create table TO fareuser;

GRANT create sequence TO fareuser;

Step5: Disconnect from system account and connect to fareuser

Sql>exit

C:\>sqlplus fareuser/aspire123@xe

Step6: Create tables and sequences

drop table fare cascade constraints;

drop sequence fare\_seq;

create table fare (id number(19) primary key, fare varchar2(255), flight\_date varchar2(255), flight\_number varchar2(255));

create sequence fare\_seq start with 1 increment by 1;

Step7: Insert records

insert into fare(id, fare, flight\_date, flight\_number) values (fare\_seq.nextVal, '100', '22-JAN-16', 'BF100');

insert into fare(id, fare, flight\_date, flight\_number) values (fare\_seq.nextVal, '101', '22-JAN-16', 'BF101');

insert into fare(id, fare, flight\_date, flight\_number) values (fare\_seq.nextVal, '102', '22-JAN-16', 'BF102');

insert into fare(id, fare, flight\_date, flight\_number) values (fare\_seq.nextVal, '103', '22-JAN-16', 'BF103');

insert into fare(id, fare, flight\_date, flight\_number) values (fare\_seq.nextVal, '104', '22-JAN-16', 'BF104');

insert into fare(id, fare, flight\_date, flight\_number) values (fare\_seq.nextVal, '105', '22-JAN-16', 'BF105');

insert into fare values (fare\_seq.nextVal, '106', '22-JAN-16', 'BF106');

commit;

Step8: Read data from FAREUSER schema

SELECT \* FROM "FAREUSER"."FARE";

|  |  |  |  |
| --- | --- | --- | --- |
| ID | FLIGHT\_NUMBER | FLIGHT\_DATE | FARE |
| 1 | BF100 | 22-JAN-16 | 100 |
| 2 | BF101 | 22-JAN-16 | 101 |
| 3 | BF102 | 22-JAN-16 | 102 |
| 4 | BF103 | 22-JAN-16 | 103 |
| 5 | BF104 | 22-JAN-16 | 104 |
| 6 | BF105 | 22-JAN-16 | 105 |
| 7 | BF106 | 22-JAN-16 | 106 |

## CREATING SEARCH SCHEMA

Step 1: Connect to database (ignore if already connected)

C:\>sqlplus system/manager@xe

Step2: Create tablespace

CREATE TABLESPACE tbs\_searchuser DATAFILE 'tbs\_searchuser.dat' SIZE 10M AUTOEXTEND ON;

Note: alter session set "\_ORACLE\_SCRIPT"=true; This is required in Oracle 12c

Step3: Create a new user in Oracle

CREATE USER searchuser IDENTIFIED BY aspire123 DEFAULT TABLESPACE tbs\_searchuser QUOTA unlimited on tbs\_searchuser;

Note: In oracle a schema is created when a user is created.

Step4: Grant permissions

GRANT create session TO searchuser;

GRANT create table TO searchuser;

GRANT create sequence TO searchuser;

Step5: Disconnect from system account and connect to searchuser

Sql>exit

C:\>sqlplus searchuser/aspire123@xe

Step6: Create tables and sequences

drop table fare cascade constraints;

drop table flight cascade constraints;

drop table inventory cascade constraints;

drop sequence fare\_seq;

drop sequence flight\_seq;

drop sequence inventory\_seq;

create sequence fare\_seq start with 1 increment by 1;

create sequence flight\_seq start with 1 increment by 1;

create sequence inventory\_seq start with 1 increment by 1;

create table **fare** (fare\_id number(19) primary key, currency varchar2(255), fare varchar2(255));

create table **inventory** (inv\_id number(19) primary key, count number(10) not null);

create table **flight** (id number(19) primary key, destination varchar2(255), flight\_date varchar2(255),

flight\_number varchar2(255), origin varchar2(255), fare\_id number(19) references fare(fare\_id), inv\_id number(19) references inventory(inv\_id));

Step7: Insert records

insert into fare (currency, fare, fare\_id) values ('USD', 100, fare\_seq.nextVal);

insert into fares (currency, fare, fare\_id) values ('USD', 101, fare\_seq.nextVal);

insert into fare (currency, fare, fare\_id) values ('USD', 102, fare\_seq.nextVal);

insert into fare (currency, fare, fare\_id) values ('USD', 103, fare\_seq.nextVal);

insert into fare (currency, fare, fare\_id) values ('USD', 104, fare\_seq.nextVal);

insert into fare (currency, fare, fare\_id) values ('USD', 105, fare\_seq.nextVal);

insert into fare (currency, fare, fare\_id) values ('USD', 106, fare\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into inventory (count, inv\_id) values (100, inventory\_seq.nextVal);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF100', 'SEA', 'SFO', '22-JAN-16', 1, 1);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF101', 'NYC', 'SFO', '22-JAN-16', 2, 2);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF102', 'CHI', 'SFO', '22-JAN-16', 3, 3);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF103', 'HOU', 'SFO', '22-JAN-16', 4, 4);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF104', 'LAX', 'SFO', '22-JAN-16', 5, 5);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF105', 'NYC', 'SFO', '22-JAN-16', 6, 6);

insert into flight (id, flight\_number, origin, destination, flight\_date, fare\_id, inv\_id) values (flight\_seq.nextVal, 'BF106', 'NYC', 'SFO', '22-JAN-16', 7, 7);

commit;

Step8: Read data from SEARCHUSER schema

SELECT \* FROM "SEARCHUSER"."FARE";

|  |  |  |
| --- | --- | --- |
| FARE\_ID | FARE | CURRENCY |
| 1 | 100 | USD |
| 2 | 101 | USD |
| 3 | 102 | USD |
| 4 | 103 | USD |
| 5 | 104 | USD |
| 6 | 105 | USD |
| 7 | 106 | USD |

SELECT \* FROM "SEARCHUSER"."INVENTORY";

|  |  |
| --- | --- |
| INV\_ID | COUNT |
| 1 | 100 |
| 2 | 100 |
| 3 | 100 |
| 4 | 100 |
| 5 | 100 |
| 6 | 100 |
| 7 | 100 |

SELECT \* FROM "SEARCHUSER"."FLIGHT";

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | FLIGHT\_NUMBER | FLIGHT\_DATE | ORIGIN | DESTINATION | FARE\_ID | INV\_ID |
| 1 | BF100 | 22-JAN-16 | SEA | SFO | 1 | 1 |
| 2 | BF101 | 22-JAN-16 | NYC | SFO | 2 | 2 |
| 3 | BF102 | 22-JAN-16 | CHI | SFO | 3 | 3 |
| 4 | BF103 | 22-JAN-16 | HOU | SFO | 4 | 4 |
| 5 | BF104 | 22-JAN-16 | LAX | SFO | 5 | 5 |
| 6 | BF105 | 22-JAN-16 | NYC | SFO | 6 | 6 |
| 7 | BF106 | 22-JAN-16 | NYC | SFO | 7 | 7 |

## CREATING BOOKING SCHEMA

Step 1: Connect to database (ignore if already connected)

C:\>sqlplus system/manager@xe

Step2: Create tablespace

CREATE TABLESPACE tbs\_bookinguser DATAFILE 'tbs\_bookinguser.dat' SIZE 10M AUTOEXTEND ON;

Note: alter session set "\_ORACLE\_SCRIPT"=true; This is required in Oracle 12c

Step3: Create a new user in Oracle

CREATE USER bookinguser IDENTIFIED BY aspire123 DEFAULT TABLESPACE tbs\_bookinguser QUOTA unlimited on tbs\_bookinguser;

Note: In oracle a schema is created when a user is created.

Step4: Grant permissions

GRANT create session TO bookinguser;

GRANT create table TO bookinguser;

GRANT create sequence TO bookinguser;

Step5: Disconnect from system account and connect to bookinguser

Sql>exit

C:\>sqlplus bookinguser/aspire123@xe

Step6: Create tables and sequences

drop table booking\_record cascade constraints;

drop table inventory cascade constraints;

drop table passenger cascade constraints;

drop sequence booking\_seq;

drop sequence inventory\_seq;

drop sequence passenger\_seq;

create sequence booking\_seq start with 1 increment by 1;

create sequence inventory\_seq start with 1 increment by 1;

create sequence passenger\_seq start with 1 increment by 1;

create table booking\_record (id number(19) primary key, booking\_date timestamp, destination varchar2(255), fare varchar2(255), flight\_date varchar2(255), flight\_number varchar2(255), origin varchar2(255), **status** varchar2(255));

create table inventory (id number(19) primary key, available number(10) not null, flight\_date varchar2(255), flight\_number varchar2(255));

create table passenger (id number(19) primary key, first\_name varchar2(255), gender varchar2(255), last\_name varchar2(255), booking\_id number(19) references booking\_record(id));

Step7: Insert records

insert into inventory (flight\_number, flight\_date, available, id) values ('BF100', '22-JAN-16', 100, inventory\_seq.nextVal);

insert into inventory (flight\_number, flight\_date, available, id) values ('BF101', '22-JAN-16', 100, inventory\_seq.nextVal);

insert into inventory (flight\_number, flight\_date, available, id) values ('BF102', '22-JAN-16', 100, inventory\_seq.nextVal);

insert into inventory (flight\_number, flight\_date, available, id) values ('BF103', '22-JAN-16', 100, inventory\_seq.nextVal);

insert into inventory (flight\_number, flight\_date, available, id) values ('BF104', '22-JAN-16', 100, inventory\_seq.nextVal);

insert into inventory (flight\_number, flight\_date, available, id) values ('BF105', '22-JAN-16', 100, inventory\_seq.nextVal);

insert into inventory (flight\_number, flight\_date, available, id) values ('BF106', '22-JAN-16', 100, inventory\_seq.nextVal);

commit;

Step8: Read data from BOOKINGUSER schema

SELECT \* FROM "BOOKINGUSER"."INVENTORY";

|  |  |  |  |
| --- | --- | --- | --- |
| ID | FLIGHT\_NUMBER | FLIGHT\_DATE | AVAILABLE |
| 1 | BF100 | 22-JAN-16 | 100 |
| 2 | BF101 | 22-JAN-16 | **99** |
| 3 | BF102 | 22-JAN-16 | 100 |
| 4 | BF103 | 22-JAN-16 | 100 |
| 5 | BF104 | 22-JAN-16 | 100 |
| 6 | BF105 | 22-JAN-16 | 100 |
| 7 | BF106 | 22-JAN-16 | 100 |

SELECT \* FROM "BOOKINGUSER"."BOOKING\_RECORD";

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | BOOKING\_DATE | ORIGIN | DESTINATION | FARE | FLIGHT\_DATE | FLIGHT\_NUMBER | STATUS |
| 1 | 2017-06-06 20:46:01 | NYC | SFO | 101 | 22-JAN-16 | BF101 | **BOOKING\_CONFIRMED** |

SELECT \* FROM "BOOKINGUSER"."PASSENGER";

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | FIRST\_NAME | LAST\_NAME | GENDER | BOOKING\_ID |
| 1 | Gean | Franc | Male | 1 |

## CREATING CHECKIN SCHEMA

Step 1: Connect to database (ignore if already connected)

C:\>sqlplus system/manager@xe

Step2: Create tablespace

CREATE TABLESPACE tbs\_checkinuser DATAFILE 'tbs\_checkinuser.dat' SIZE 10M AUTOEXTEND ON;

Note: alter session set "\_ORACLE\_SCRIPT"=true; This is required in Oracle 12c

Step3: Create a new user in Oracle

CREATE USER checkinuser IDENTIFIED BY aspire123 DEFAULT TABLESPACE tbs\_checkinuser QUOTA unlimited on tbs\_checkinuser;

Note: In oracle a schema is created when a user is created.

Step4: Grant permissions

GRANT create session TO checkinuser;

GRANT create table TO checkinuser;

GRANT create sequence TO checkinuser;

Step5: Disconnect from system account and connect to checkinuser

Sql>exit

C:\>sqlplus checkinuser/aspire123@xe

Step6: Create tables and sequences

drop table check\_in\_record cascade constraints;

drop sequence checkin\_seq;

create sequence checkin\_seq start with 1 increment by 1;

create table check\_in\_record (id number(19)primary key, booking\_id number(19) not null, check\_in\_time timestamp, first\_name varchar2(255), flight\_date varchar2(255), flight\_number varchar2(255), last\_name varchar2(255), **seat\_number** varchar2(255));

Step7: Insert records

No need to insert data manually

Step8: Read data from CHECKINUSER schema

SELECT \* FROM "CHECKINUSER"."CHECK\_IN\_RECORD";

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | BOOKING\_ID | CHECK\_IN\_TIME | FIRST\_ NAME | LAST\_NAME | FLIGHT\_DATE | FLIGHT\_NUMBER | SEAT\_NUMBER |
| 1 | 1 | 2017-06-06 21:18:46 | Gean | Franc | 22-JAN-16 | BF101 | **28A** |

**Other useful commands**

DROP TABLESPACE tbs\_testuser INCLUDING CONTENTS AND DATAFILES;

DROP USER testuser;