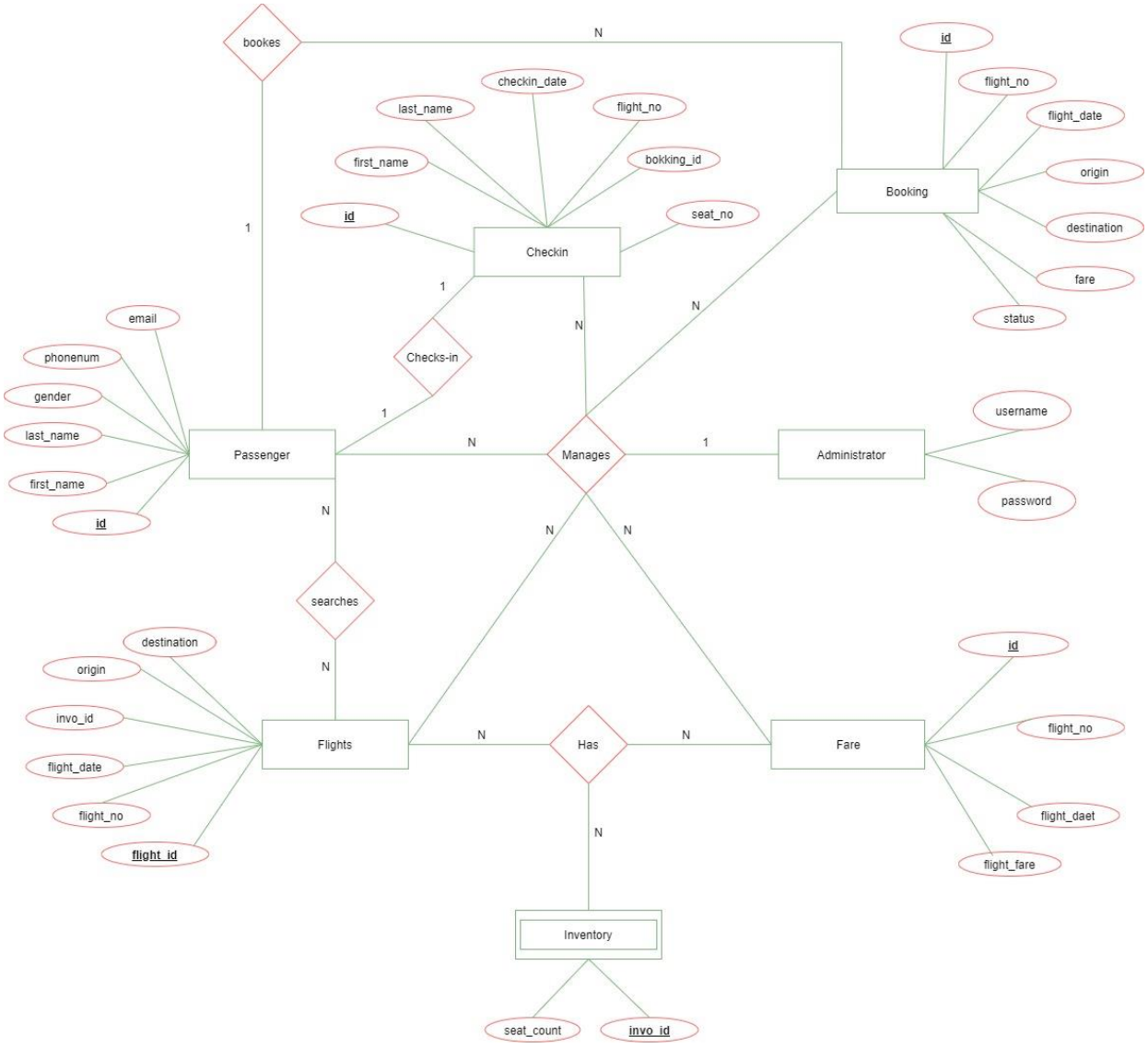
AIRLINE RESERVATION SCHEMA

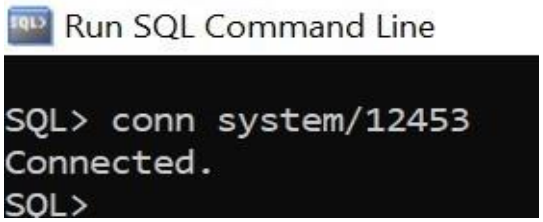
ER DIAGRAM:



CREATING FARE SCHEMA

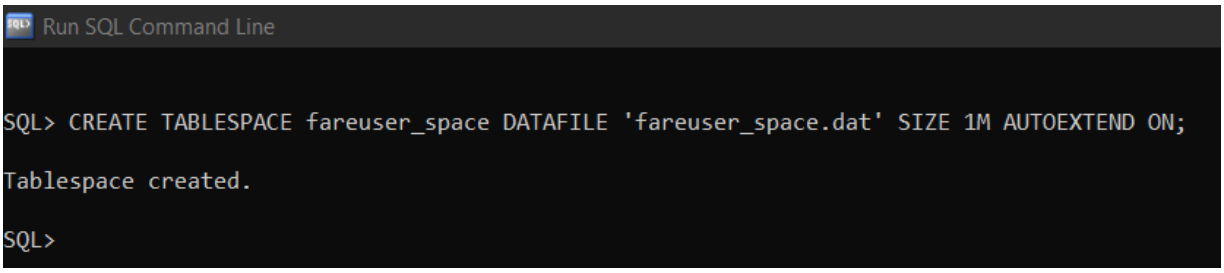
1) CONNECTING TO THE DATABASE :->

While connecting to the database you have to provide your credentials. And the command for connecting the database is, “conn username/password”.



2) CREATING TABLESPACES :->

Here we are creating a TABLESPACE. These are used for dividing a single table data to multiple locations, so that in data loss we don't loss all of the data.



3) CREATING USERS & GRANTING PERMISSION :->

Here we are creating a user credentials and assigning a TABLESPACE for the user. You can create multiple users in a database.

Create a new user in Oracle:

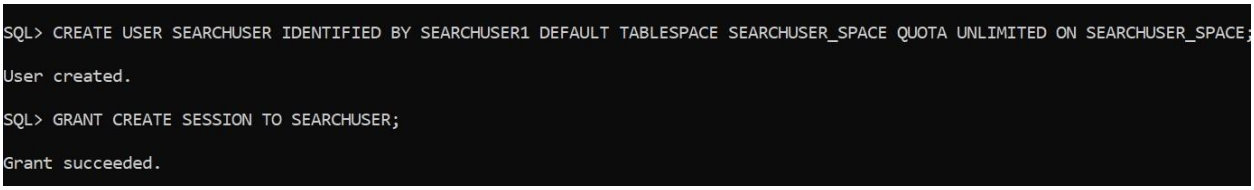
CREATE **USER** fareuser **IDENTIFIED** BY fareuser1 DEFAULT TABLESPACE fareuser_space QUOTA unlimited on fareuser_space;

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

GRANT create session TO fareuser;

GRANT create table TO fareuser;

GRANT create sequence TO fareuser;



4) DISCONNECT FROM SYSTEM ACCOUNT and CONNECT TO FAREUSER:->

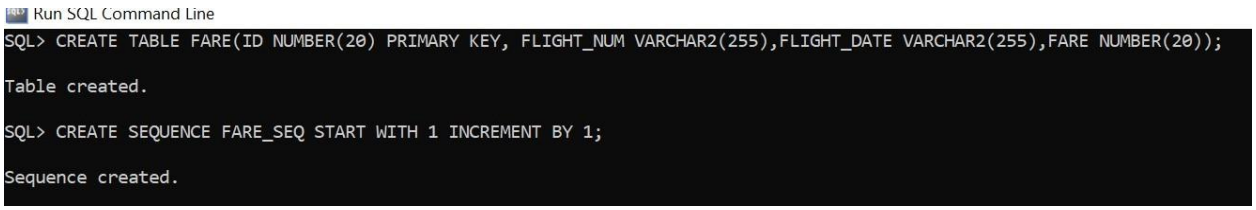
Sql>exit

C:\>sqlplus fareuser/fareuser1

5) CREATING TABLES & SEQUENCES :->

create table fare (id number(19) primary key, fare varchar2(255), flight_date varchar2(255), flight_number varchar2(255));

create sequence fare_sq start with 1 increment by 1;



6) INSERT DATA :->

insert into fare(id, fare, flight_date, flight_number) values (fare_sq.nextVal, '100', '22-JAN-16', 'BF100');

insert into fare(id, fare, flight_date, flight_number) values (fare_sq.nextVal, '101', '22-JAN-16', 'BF101');

insert into fare(id, fare, flight_date, flight_number) values (fare_sq.nextVal, '102', '22-JAN-16', 'BF102');

insert into fare(id, fare, flight_date, flight_number) values (fare_sq.nextVal, '103', '22-JAN-16', 'BF103');

insert into fare(id, fare, flight_date, flight_number) values (fare_sq.nextVal, '104', '22-JAN-16', 'BF104');

insert into fare(id, fare, flight_date, flight_number) values (fare_sq.nextVal, '105', '22-JAN-16', 'BF105');

insert into fare id, fare, flight_date, flight_number) values (fare_sq.nextVal, '106','22-JAN-16', 'BF106');

commit;

```
SQL> INSERT INTO FARE VALUES(FARE_SEQ.NEXTVAL,'NYC100','25-JAN-2021',10000);
1 row created.
SQL> INSERT INTO FARE VALUES(FARE_SEQ.NEXTVAL,'DBC101','20-JAN-2021',8000);
1 row created.
SQL> INSERT INTO FARE VALUES(FARE_SEQ.NEXTVAL,'LAC102','22-JAN-2021',18000);
1 row created.
SQL> INSERT INTO FARE VALUES(FARE_SEQ.NEXTVAL,'SFC103','28-JAN-2021',15000);
1 row created.
SQL> INSERT INTO FARE VALUES(FARE_SEQ.NEXTVAL,'CAC104','23-JAN-2021',17000);
1 row created.
```

7) DROPPING USERS (Optional**) :->**

If required, we can drop the table and sequence

drop table fare cascade constraints; drop sequence fare_seq;

```
SQL> DROP USER SEARCHUSER CASCADE;

User dropped.
```

CREATING SEARCH SCHEMA

1) CONNECTING TO THE DATABASE :->

Connect to database (ignore if already connected)

C:\>sqlplus system/manager@xe

OR

SQL> conn username/password;

2) CREATING TABLESPACES :->

Here we are creating a TABLESPACE. These are used for dividing a single table data to multiple locations, so that in data loss we don't loss all the data.

3) CREATING USERS & GRANTING PERMISSION :->

Here we are creating a user credentials and assigning a TABLESPACE for the user. You can create multiple users in a database.

Create a new user in Oracle

CREATE USER searchuser IDENTIFIED BY searchuser1;

Grant permissions

GRANT create session TO searchuser;

GRANT create table TO searchuser;

GRANT create sequence TO searchuser;

4) DISCONNECT FROM SYSTEM ACCOUNT and CONNECT TO SEARCH USER:->

Sql>exit

SQL> conn searchuser/searchuser1;

5) CREATING TABLES & SEQUENCES :->

create sequence fare_sq start with 1 increment by 1; create sequence flight_sq start with 1 increment by 1; create sequence invo_sq start with 1 increment by 1;

create table fare (fare_idnumber(19) primary key, currency varchar2(255), fare varchar2(255));

create table inv (inv_idnumber(19) primary key, count number(10) not null);

create table flight (id number(19) primary key, origin varchar2(255), destination varchar2(255), flight_number varchar2(255), flight_date varchar2(255),

fare_idnumber(19) references fare(fare_id), inv_id number(19) references inventory(inv_id));

6) INSERT DATA :->

insert into invo (seat count, inv_id) values (100,
invo_sq.nextVal);

insert into invo (seat count, inv_id) values (100,
invo_sq.nextVal);

insert into invo (seat count, inv_id) values (100,
invo_sq.nextVal);

insert into invo (seat count, inv_id) values (100,
invo_sq.nextVal);

insert into invo (seat count, inv_id) values (100,
invo_sq.nextVal);

insert into invo (seat count, inv_id) values (100,
invo_sq.nextVal);

insert into invo (seat count, inv_id) values (100,
invo_sq.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);

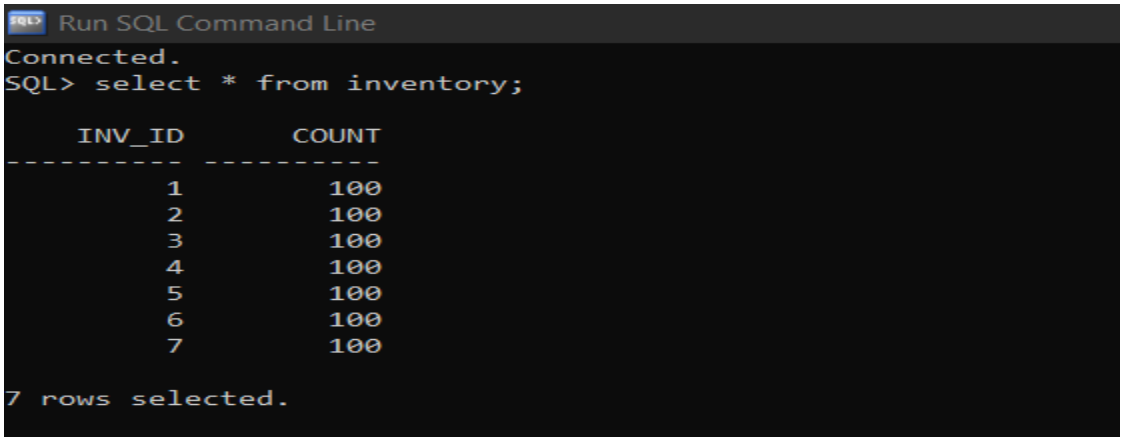
insert into flight (id, flight_number, origin, destination, flight_date,
fare_id, inv_id) values (flight_seq.nextVal, 'BF102', 'CHI', 'SFO', '22-
JAN-16', 3, 3);

Here we can insert as much data as we want.

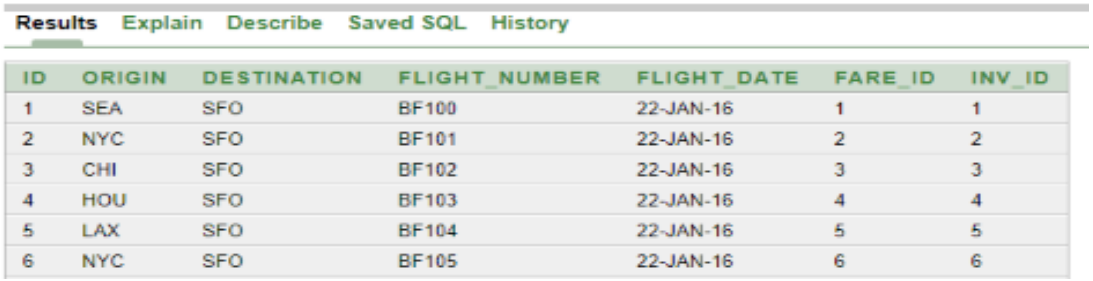
commit;

7) PRINTING TABLES :->

SELECT * FROM "SEARCH USER"."INVENTORY";



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



ID	ORIGIN	DESTINATION	FLIGHT_NUMBER	FLIGHT_DATE	FARE_ID	INV_ID
1	SEA	SFO	BF100	22-JAN-16	1	1
2	NYC	SFO	BF101	22-JAN-16	2	2
3	CHI	SFO	BF102	22-JAN-16	3	3
4	HOU	SFO	BF103	22-JAN-16	4	4
5	LAX	SFO	BF104	22-JAN-16	5	5
6	NYC	SFO	BF105	22-JAN-16	6	6

8) DROPPING USERS :->

drop table fare cascade constraints;

drop table invo cascade constraints;

drop table flight cascade constraints;

drop sequence fare_sq;

drop sequence flight_sq;

drop sequence invo_sq;

CREATING BOOKING SCHEMA

1) CONNECTING TO THE DATABASE :->

Connect to database (ignore if already connected)

C:\>sqlplus system/manager@xe

OR

SQL> conn username/password;

2) CREATING TABLESPACES :->

Here we are creating a TABLESPACE. These are used for dividing a single table data to multiple locations, so that in data loss we don't loss all the data.

3) CREATING USERS & GRANTING PERMISSION :->

Here we are creating a user credentials and assigning a TABLESPACE for the user. You can create multiple users in a database.

Create a new user in Oracle

CREATE USER bookinguser IDENTIFIED BY bookinguser1;

Grant permissions

GRANT create session TO bookinguser;

GRANT create table TO bookinguser;

GRANT create sequence TO bookinguser;

4) DISCONNECT FROM SYSTEM ACCOUNT and CONNECT TO SEARCH USER:->

Sql>exit

C:\>sqlplus bookinguser/bookinguser1;

5) CREATING TABLES & SEQUENCES :->

create sequence booking_sq start with 1 increment by 1;

create sequence invo_sq start with 1 increment by 1;

create sequence passenger_sq 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 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));

6) INSERT DATA :->

insert into booking_record (id number, booking_date , destination , fare , flight_date , flight_number, origin , status)values(1,'2017-06-06','nyc','sfo',101,'22-jan-16','BF-101','BOOKING CONFIRMED');

insert into passenger (id, first_name , gender , last_name,booking_id) values (1,'Gean','Franc','Male',1);

commit;

7) PRINTING TABLES :->

Read data from BOOKINGUSER schema

Results Explain Describe Saved SQL History

ID	AVAILABLE	FLIGHT_DATE	FLIGHT_NUMBER
1	100	22-JAN-16	BF100
2	100	22-JAN-16	BF101
3	100	22-JAN-16	BF102
4	100	22-JAN-16	BF103
5	100	22-JAN-16	BF104
6	100	22-JAN-16	BF105
7	100	22-JAN-16	BF106

7 rows returned in 0.00 seconds CSV Export

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-21	BF101	**BOOKING_CONFIRMED**

SELECT * FROM "BOOKINGUSER"."PASSENGER";

ID	FIRST_NAME	LAST_NAME	GENDER	BOOKING_ID
1	NITISH	SINGH	Male	1

CREATING CHECKIN SCHEMA

1) CONNECTING TO THE DATABASE :->

Connect to database (ignore if already connected)

C:\>sqlplus system/manager@xe

OR

SQL> conn username/password;

2) CREATING TABLESPACES :->

Here we are creating a TABLESPACE. These are used for dividing a single table data to multiple locations, so that in data loss we don't loss all the data.

3) CREATING USERS & GRANTING PERMISSION :->

Here we are creating a user credentials and assigning a TABLESPACE for the user. You can create multiple users in a database.

Create a new user in Oracle

CREATE USER checkinuser IDENTIFIED BY checkinuser1;

Grant permissions

GRANT create session TO checkinuser;

GRANT create table TO checkinuser;

GRANT create sequence TO checkinuser;

4) DISCONNECT FROM SYSTEM ACCOUNT and CONNECT TO SEARCH USER :->

Sql>exit

C:\>sqlplus checkinuser/checkinuser1;

5) CREATING TABLES & SEQUENCES :->

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_numbervarchar2(255));

6) INSERT DATA :->

No need to insert data manually

7) PRINTING TABLES :->

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

FORMS

FLIGHT

Flight date :

Flight number :

ID :

Fare :

Inv_ID :

BOOKING RECORD

Id :

Booking date :

Destination :

Fare :

Flight Date :

Flight Number :

Origin :

Status :

Submit

PASSENGER

Id :

First Name :

Gender : male female

Last Name :

Booking Id :

Booking Record :

Submit

CHECKIN RECORD

Id :

Booking Id :

Checkin Time :

First Name :

Last Name :

Flight Date :

Flight Number :

Seat Number :

Submit