3.1.1 Table Creation

--1

create table employee

(employeeid numeric(9,0) primary key,

age number(3) not null,

salary\_rate numeric(9,2),

name varchar2(20),

state varchar2(2),

city varchar2(20),

street\_name varchar2(20),

street\_number varchar2(20),

zipcode varchar2(10),

event\_staff\_id numeric(9,0) null

)

alter table employee add constraint fk\_employee

foreign key (event\_staff\_id) references employee (employeeid);

--2

create table dinning

(shift varchar2(10) null,

type varchar2(20) null,

employeeid numeric(9,0) primary key

)

alter table dinning add constraint fk\_dinning

foreign key (employeeid) references employee (employeeid);

--3

create table concierge

(

concierge\_experience\_year number(3) null,

employeeid numeric(9,0) primary key

)

alter table concierge add constraint fk\_concierge

foreign key (employeeid) references employee (employeeid);

--4

create table housekeeping

(

housekeeping\_experience\_year number(3) null,

employeeid numeric(9,0) primary key

)

alter table housekeeping add constraint fk\_housekeeping

foreign key (employeeid) references employee (employeeid);

--5

create table receptionist

(

language varchar2(10) null,

employeeid numeric(9,0) primary key

)

alter table receptionist add constraint fk\_receptionist

foreign key (employeeid) references employee (employeeid);

--6

create table tech\_support

(

tech\_support\_licence varchar2(10) null,

employeeid numeric(9,0) primary key

)

alter table tech\_support add constraint fk\_tech

foreign key (employeeid) references employee (employeeid);

--7

create table management

(

title varchar2(20) null,

employeeid numeric(9,0) primary key

)

alter table management add constraint fk\_management

foreign key (employeeid) references employee (employeeid);

--8

create table catering

(

employeeid numeric(9,0) primary key

)

alter table catering add constraint fk\_catering

foreign key (employeeid) references employee (employeeid);

--9

create table accountant

(

accountant\_licence varchar2(20) null,

employeeid numeric(9,0) primary key

)

alter table accountant add constraint fk\_accountant

foreign key (employeeid) references employee (employeeid);

--10

create table event

(

event\_id numeric(4,0) primary key,

event\_date date,

event\_time timestamp(6) with time zone,

event\_manager\_id numeric(9,0) not null,

event\_deposit numeric(7,2)

)

alter table event add constraint fk\_event

foreign key (event\_manager\_ID) references employee (employeeid);

-- 11. Client

CREATE TABLE client

(

customerid NUMERIC(6,0) PRIMARY KEY

);

-- 12. Organization

CREATE TABLE organization

(

customerid NUMERIC(6,0) PRIMARY KEY

);

ALTER TABLE organization add CONSTRAINT fk\_organization

FOREIGN KEY (customerid) REFERENCES client (customerid);

-- 13. Individual

CREATE TABLE individual

(

customerid NUMERIC(6,0) PRIMARY KEY,

birthdate DATE NULL,

individual\_name VARCHAR2(20) NULL,

individual\_sex VARCHAR2(20) NULL

);

ALTER TABLE individual add CONSTRAINT fk\_individual

FOREIGN KEY (customerid) REFERENCES client (customerid);

-- 14. Membersip

CREATE TABLE membership

(

membership\_number NUMERIC(11,0) PRIMARY KEY

);

-- 15. Room

CREATE TABLE room

(

room\_number NUMERIC(4,0) PRIMARY KEY,

bed\_type VARCHAR2(20) NULL,

room\_type VARCHAR2(20) NULL,

per\_night\_price INTEGER NULL

);

-- 16. Clear

CREATE TABLE clear

(

employeeid NUMERIC(9,0) NOT NULL,

room\_number NUMERIC(4,0) NOT NULL,

cdate DATE NULL,

ctime TIMESTAMP(6) WITH TIME ZONE,

PRIMARY KEY (employeeid, room\_number)

);

ALTER TABLE clear add CONSTRAINT fk\_clear1

FOREIGN KEY (employeeid) REFERENCES employee (employeeid);

ALTER TABLE clear add CONSTRAINT fk\_clear2

FOREIGN KEY (room\_number) REFERENCES room (room\_number);

-- 17. check\_out\_bill

CREATE TABLE check\_out\_bill

(

room\_number NUMERIC(6,0) NOT NULL,

customerid NUMERIC(6,0) NOT NULL,

check\_out\_bill\_amount INTEGER NOT NULL,

check\_out\_bill\_issed\_date DATE NOT NULL,

check\_in\_date DATE NOT NULL,

check\_out\_date DATE NOT NULL,

PRIMARY KEY (room\_number, customerid)

);

-- 18. has

CREATE TABLE has

(

customerid NUMERIC(6,0) NOT NULL,

membership\_number NUMERIC(11,0) NOT NULL,

PRIMARY KEY (customerid, membership\_number)

);

ALTER TABLE has add CONSTRAINT fk\_has1

FOREIGN KEY (customerid) REFERENCES client (customerid);

ALTER TABLE has add CONSTRAINT fk\_has2

FOREIGN KEY (membership\_number) REFERENCES membership (membership\_number);

--19

create table holds

(

customerid number(6,0) not null,

event\_id number(4,0) not null,

primary key (customerid, event\_id)

)

alter table holds add constraint fk\_holds

foreign key (customerid) references Client(customerid);

alter table holds add constraint fk\_holds2

foreign key (event\_id) references event (event\_id);

--20

create table serve

(

event\_id number(4,0) not null,

employeeid number(9,0) not null,

oncall\_speaker char(20) null,

oncall\_number number(4,0),

primary key (event\_id, employeeid)

)

alter table serve add constraint fk\_serve1

foreign key (employeeid) references employee (employeeid);

alter table serve add constraint fk\_serve2

foreign key (event\_id) references event (event\_id);

//////////////////////////////////////////

--21

create table bill\_event\_payment

(

customerid numeric(6,0),

event\_bill\_id numeric(6,0),

pdate date,

ptime TIMESTAMP(6) WITH TIME ZONE,

date\_of\_payment date,

amount\_of\_event\_payment numeric(8,2),

primary key (customerid, event\_bill\_id)

)

alter table bill\_event\_payment add constraint fk\_bill\_event\_payment

foreign key (customerid) references organization (customerid);

-- 22. direct\_bill\_account

CREATE TABLE direct\_bill\_account

(

customerid NUMERIC(6,0) NOT NULL,

direct\_bill\_account VARCHAR2(20) NOT NULL,

PRIMARY KEY (customerid, direct\_bill\_account)

);

ALTER TABLE direct\_bill\_account add CONSTRAINT fk\_direct\_bill\_account

FOREIGN KEY (customerid) REFERENCES client (customerid);

-- 23. phone

CREATE TABLE phone

(

customerid NUMERIC(6,0) PRIMARY KEY,

phone NUMERIC(10,0) NULL

)

ALTER TABLE phone add CONSTRAINT fk\_phone

FOREIGN KEY (customerid) REFERENCES client (customerid);

-- 24. check\_out\_payment\_id

CREATE TABLE check\_out\_payment\_id

(

customerid NUMERIC(6,0) NOT NULL,

room\_number NUMERIC(4,0) NOT NULL,

cop\_time TIMESTAMP(6) WITH TIME ZONE,

cop\_date DATE NOT NULL,

cop\_amount\_of\_payment NUMERIC(8,2),

PRIMARY KEY (customerid, room\_number)

);

ALTER TABLE check\_out\_payment\_id add CONSTRAINT fk\_check\_out\_payment\_id1

FOREIGN KEY (customerid) REFERENCES client (customerid);

ALTER TABLE check\_out\_payment\_id add CONSTRAINT fk\_check\_out\_payment\_id2

FOREIGN KEY (room\_number) REFERENCES room (room\_number);

--25

create table check\_in

(

customerid numeric(6,0) not null,

employeeid numeric(9,0) not null,

room\_number numeric(4,0) not null,

check\_in\_date date not null,

key\_type char(20),

check\_in\_time TIMESTAMP WITH LOCAL TIME ZONE not null,

length\_of\_stay numeric(9,0),

lounge numeric(1,0) default '0',

primary key (customerid, employeeid, room\_number, check\_in\_date, check\_in\_time)

)

alter table check\_in add constraint fk\_check\_in1

foreign key (employeeid) references receptionist(employeeid);

alter table check\_in add constraint fk\_check\_in2

foreign key (customerid) references client(customerid);

alter table check\_in add constraint fk\_check\_in3

foreign key (room\_number) references room(room\_number);

--26

create table bill\_for\_event

(

customerid number(6,0) not null,

event\_bill\_id number(6,0),

event\_id number(4,0) not null,

employeeid number(9,0) not null,

bill\_event\_date\_issued date,

bill\_event\_amount number(8,2),

primary key (customerid, event\_bill\_id)

)

alter table bill\_for\_event add constraint fk\_bill\_for\_event1

foreign key (employeeid) references accountant(employeeid);

alter table bill\_for\_event add constraint fk\_bill\_for\_event2

foreign key (customerid) references organization (customerid);

alter table bill\_for\_event add constraint fk\_bill\_for\_event3

foreign key (event\_id) references event (event\_id);