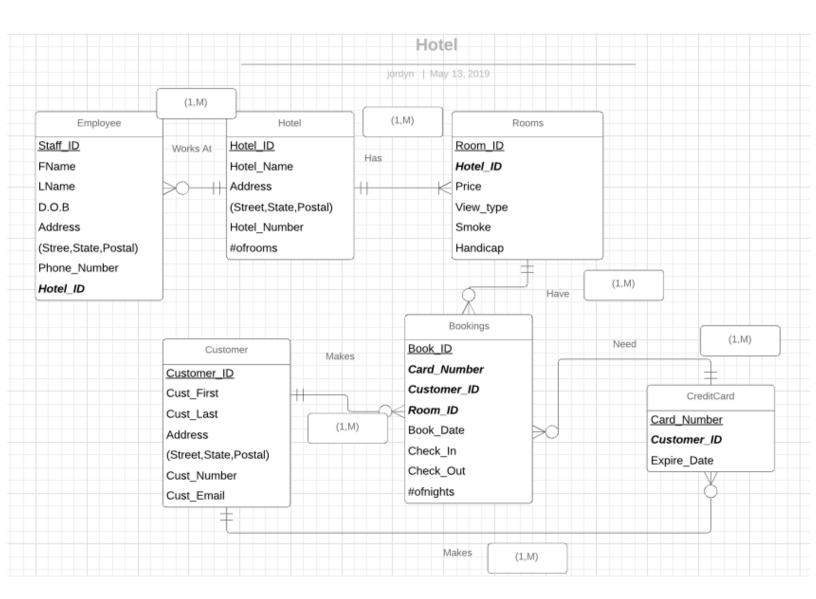
#### Hotel Database

This database design project was done for a Hotel. The ER diagram starts off with an employee that works at the hotel. The hotel has rooms, where there are different types of rooms. Customers make a booking for these rooms and payments happen to officially book them. The attributes that the employee entity type has are staff\_ID (as the primary key) followed by first name, last name, date of birth, address (followed by a sub of street, state and postal code), phone number and the hotel ID is the foreign key from the next up entity. The next entity type is the hotel. The primary key in this entity is hotel\_ID with attributes like name, address (with sub including street, state, postal), phone number and number of rooms that hotel has. The next entity in the diagram is rooms that this hotel has. Room\_ID is the primary key and hotel\_ID is the foreign key. Attributes in this entity include the price, view\_type, smoke and handicap options. Connected to the room's entity is the booking entity. Booking entity has the primary key of book ID, followed by three primary keys (card number, customer ID and room ID). The other attributes in the booking entity are booking date, check in, check out, and the number of nights that will be stayed. Connected to the booking entity are two entities. One being the customer entity with the attributes of customer\_ID (as the primary key), first name, last name, address (with sub of street, state and postal), phone number and email address. The second connecting entity is credit card. The primary key is card number, the foreign key is customer ID and the third attribute being expiration date of the credit card.

In regard to the minimum and maximum constraints: Optionally many employees work at mandatory one hotel. Mandatory one hotel has mandatory many rooms. Mandatory one room has optionally many bookings. Mandatory one customer makes optionally many bookings.

Mandatory one credit card has optionally many bookings. Mandatory one customer makes optionally many payments.



<u>Primary keys</u> are underlined. **Foreign keys** are in bold.

# **Logical Schema**

The underlined words are primary keys. The **bold** words are foreign keys.

Employee

<u>STAFF\_ID</u> FNAME LNAME DOB STAFF\_STREET STAFF\_STATE STAFF\_POSTAL PHONE\_NUMBER **HOTEL\_ID** 

Hotel

<u>HOTEL\_ID</u> HOTEL\_NAME HOTEL\_STREET HOTEL\_STATE HOTEL\_POSTAL HOTEL\_NUMBER NUMOFROOMS

Room

ROOM\_ID HOTEL\_ID PRICE VIEW\_TYPE SOME HANDICAP

**Booking** 

BOOK ID CARD\_NUMBER CUSTOMER\_ID ROOM\_ID BOOK\_DATE CHECK\_IN CHECK OUT NUMOFNIGHTS

Customer

<u>CUSTOMER\_ID</u> CUST\_FIRST CUST\_LAST CUST\_STREET CUST\_STATE CUST\_POSTAL CUST\_NUMBER CUST\_EMAIL

CreditCard

<u>CARD\_NUMBER</u> **CUSTOMER\_ID** EXPIRE\_DATE

#### SQL build

DROP TABLE CUSTOMER CASCADE CONSTRAINTS;
CREATE TABLE CUSTOMER
(CUSTOMER\_ID INT NOT NULL,
CUST\_FIRST VARCHAR(20) NOT NULL,
CUST\_LAST VARCHAR(20) NOT NULL,
CUST\_STREET VARCHAR(35) NOT NULL,
CUST\_STATE VARCHAR(15) NOT NULL,
CUST\_POSTAL VARCHAR(8) NOT NULL,
CUST\_NUMBER CHAR(12) NOT NULL,
CUST\_EMAIL VARCHAR(30) NOT NULL,
PRIMARY KEY (CUSTOMER ID));

DROP TABLE HOTEL CASCADE CONSTRAINTS; CREATE TABLE HOTEL (HOTEL\_ID INT NOT NULL, HOTEL\_NAME VARCHAR(20) NOT NULL, HOTEL\_STREET VARCHAR(35) NOT NULL, HOTEL\_STATE VARCHAR(15) NOT NULL, HOTEL\_POSTAL VARCHAR(8) NOT NULL, HOTEL\_NUMBER CHAR(12) NOT NULL, NUM\_ROOMS INT NOT NULL, PRIMARY KEY (HOTEL ID));

DROP TABLE EMPLOYEE CASCADE CONSTRAINTS;
CREATE TABLE EMPLOYEE
(STAFF\_ID INT NOT NULL,
HOTEL\_ID INT NOT NULL,
FNAME VARCHAR(20) NOT NULL,
LNAME VARCHAR(20) NOT NULL,
DOB CHAR(18) NOT NULL,
STAFF\_STREET VARCHAR(35) NOT NULL,
STAFF\_STATE VARCHAR(15) NOT NULL,
STAFF\_POSTAL VARCHAR(8) NOT NULL,
PHONE\_NUMBER CHAR(12) NOT NULL,
PRIMARY KEY (STAFF\_ID),
FOREIGN KEY (HOTEL\_ID) REFERENCES HOTEL (HOTEL\_ID));

DROP TABLE ROOM CASCADE CONSTRAINTS; CREATE TABLE ROOM (ROOM\_ID INT NOT NULL, HOTEL\_ID INT NOT NULL, ROOM\_TYPE VARCHAR(20) NOT NULL, VIEW\_TYPE VARCHAR(30) NOT NULL,
PRICE INT NOT NULL,
SMOKE CHAR(1) NOT NULL,
HANDICAP CHAR(1) NOT NULL,
PRIMARY KEY (ROOM\_ID),
FOREIGN KEY (HOTEL\_ID) REFERENCES HOTEL (HOTEL\_ID));

# DROP TABLE CREDITCARD CASCADE CONSTRAINTS;

CREATE TABLE CREDITCARD

(CARD NUMBER INT NOT NULL,

CUSTOMER ID INT NOT NULL,

EXPIRE\_DATE VARCHAR(10) NOT NULL,

PRIMARY KEY (CARD NUMBER),

FOREIGN KEY (CUSTOMER\_ID) REFERENCES CUSTOMER (CUSTOMER\_ID));

# DROP TABLE BOOKING CASCADE CONSTRAINTS;

CREATE TABLE BOOKING

(BOOK ID INT NOT NULL,

CUSTOMER\_ID INT NOT NULL,

ROOM ID INT NOT NULL,

CARD NUMBER INT NOT NULL,

BOOK DATE VARCHAR(10) NOT NULL,

CHECK IN VARCHAR(10) NOT NULL,

CHECK OUT VARCHAR(10) NOT NULL,

NUM NIGHTS INT NOT NULL,

PRIMARY KEY (BOOK ID),

FOREIGN KEY (CUSTOMER\_ID) REFERENCES CUSTOMER (CUSTOMER\_ID),

FOREIGN KEY (ROOM ID) REFERENCES ROOM (ROOM ID),

FOREIGN KEY (CARD\_NUMBER) REFERENCES CREDITCARD (CARD\_NUMBER));

#### SQL Load

#### INSERT INTO CUSTOMER VALUES

(37604878, 'Tybalt', 'Varndell', '12907 Pearson Hill', 'Florida', '33763', '727-542-1246', 'tvarndell0@1und1.de');

# INSERT INTO CUSTOMER VALUES

(77325758, 'Cristin', 'Cromwell', '796 Schlimgen Place', 'Kentucky', '40298', '502-892-5852', 'ccromwell1@cloudflare.com');

#### INSERT INTO CUSTOMER VALUES

(92123508, 'Stephanus', 'Wantling', '82016 Walton Avenue', 'Florida', '33124', '786-152-1006', 'swantling2@discuz.net');

# INSERT INTO CUSTOMER VALUES

(60239167, 'Englebert', 'Stranger', '65920 Warner Parkway', 'Massachusetts', '02405', '508-349-3908', 'estranger3@irs.gov');

#### INSERT INTO CUSTOMER VALUES

(04524369, 'Maynord', 'McMurraya', '81742 Vidon Pass', 'California', '20530', '202-689-0520', 'mmcmurraya4@qq.com');

# INSERT INTO CUSTOMER VALUES

(53193626, 'Pauly', 'Monan', '201 Cherokee Place', 'California', '92132', '858-457-4501', 'pmonan5@youtube.com');

#### INSERT INTO CUSTOMER VALUES

(16132010, 'Catharina', 'Spieght', '466 Knutson Avenue', 'Texas', '75265', '214-399-8014', 'cspieght6@topsy.com');

#### INSERT INTO CUSTOMER VALUES

(14315054, 'Othelia', 'McOmish', '64 Grim Circle', 'Connecticut', '06905', '203-635-1952', 'omcomish7@dot.gov');

# INSERT INTO CUSTOMER VALUES

(35323650, 'Chloette', 'Midson', '80492 Packers Junction', 'California', '95298', '209-733-1718', 'cmidson8@ifeng.com');

# INSERT INTO CUSTOMER VALUES

(21258260, 'Pandora', 'Kupis', '022 Melby Terrace', 'South Carolina', '29240', '803-101-1459', 'pkupis9@paypal.com');

#### INSERT INTO CUSTOMER VALUES

(55590986, 'Lothario', 'Cowhig', '43502 Sage Center', 'Tennessee', '38188', '901-376-5297', 'lcowhiga@wufoo.com');

#### INSERT INTO CUSTOMER VALUES

(10398735, 'Cecil', 'Pittman', '4 3rd Pass', 'Idaho', '83757', '208-629-5314', 'cpittmanb@jimdo.com');

# INSERT INTO CUSTOMER VALUES

(24827593, 'Hyatt', 'Vassall', '1 Forest Place', 'Nevada', '89036', '702-208-1152', 'hvassallc@mysql.com');

#### INSERT INTO CUSTOMER VALUES

(93325471, 'Sergeant', 'Kalisz', '13 Pankratz Trail', 'Alabama', '36605', '251-898-2676', 'skaliszd@japanpost.jp');

#### INSERT INTO CUSTOMER VALUES

(62569877, 'Pren', 'Godrich', '2220 Mifflin Circle', 'Massachusetts', '01654', '508-412-8904', 'pgodriche@theguardian.com');

# INSERT INTO CUSTOMER VALUES

(32488824, 'Chloe', 'Melding', '0222 Elgar Avenue', 'Oklahoma', '73071', '405-369-6498', 'cmeldingf@google.de');

# INSERT INTO CUSTOMER VALUES

(57705854, 'Bobette', 'Mangion', '8724 Darwin Plaza', 'Michigan', '48550', '810-947-8058', 'bmangiong@squarespace.com');

# INSERT INTO CUSTOMER VALUES

(51357215, 'Myca', 'Lewisham', '362 Ludington Hill', 'Tennessee', '38308', '731-668-8886', 'mlewishamh@vistaprint.com');

# INSERT INTO CUSTOMER VALUES

(33479043, 'Patricio', 'Garlicke', '9158 Hallows Terrace', 'California', '94064', '650-843-8752', 'pgarlickei@businessinsider.com');

#### INSERT INTO CUSTOMER VALUES

(44574019, 'Budd', 'Varga', '898 Bobwhite Park', 'Connecticut', '06726', '203-258-9646', 'bvargaj@cdbaby.com');

#### INSERT INTO HOTEL VALUES

(50779101, 'Pfannerstill', '77 Blue Park Avenue', 'Hawaii', '90101', '213-417-5546', 40);

#### INSERT INTO HOTEL VALUES

(74232147, 'Nicolas', '7 Bobwhite Park', 'Hawaii', '34605', '352-212-9236', 27);

#### INSERT INTO HOTEL VALUES

(55949622, 'Hansen and Schulist', '12 Mandrake Crossing', 'Hawaii', '37131', '615-593-9962', 25):

#### INSERT INTO HOTEL VALUES

(42358026, 'Thiel', '5136 Larry Lane', 'Hawaii', '22217', '571-589-7482', 21);

#### INSERT INTO HOTEL VALUES

(72185384, 'Hartmann', '07459 Victoria Avenue', 'Hawaii', '79182', '806-330-3249', 28);

#### INSERT INTO EMPLOYEE VALUES

(57900845, 72185384, 'Jillian', 'Guillot', 'Sep-24-2018', '26723 Gale Hill', 'Hawaii', '20380', '202-924-6987');

#### INSERT INTO EMPLOYEE VALUES

(80204797, 50779101, 'Bella', 'Donohue', 'Sep-25-2018', '8 Fuller Pass', 'Hawaii', '20380', '212-215-6801');

#### INSERT INTO EMPLOYEE VALUES

(44259084, 50779101, 'Basile', 'Gowdy', 'Sep-26-2018', '6119 Anzinger Street', 'Hawaii', '20380', '253-560-4397');

#### INSERT INTO EMPLOYEE VALUES

(46784226, 74232147, 'Christopher', 'Dudny', 'Sep-27-2018', '5431 Stone Corner Plaza', 'Hawaii', '53263', '414-816-2767');

#### INSERT INTO EMPLOYEE VALUES

(19567544, 74232147, 'Terrence', 'Adamo', 'Sep-28-2018', '78246 Westend Lane', 'Hawaii', '37939', '865-473-1576');

```
INSERT INTO EMPLOYEE VALUES
```

(76395128, 72185384, 'Mayne', 'McComish', 'Sep-29-2018', '38439 Alpine Place', 'Utah', '84152', '801-519-5869');

#### INSERT INTO EMPLOYEE VALUES

(77144637, 55949622, 'Paulina', 'Le Page', 'Sep-14-2018', '639 Jenifer Center', 'Washington', '98417', '253-279-4029');

#### INSERT INTO EMPLOYEE VALUES

(61428348, 55949622, 'Elinor', 'Fittall', 'Sep-12-2018', '60 Everett Center', 'Texas', '77095', '713-601-9432');

#### INSERT INTO EMPLOYEE VALUES

(16965541, 42358026, 'Kipp', 'Dodswell', 'Sep-13-2018', '310 Carioca Trail', 'North Carolina', '28284', '704-168-4046');

#### INSERT INTO EMPLOYEE VALUES

(45917022, 42358026, 'Judah', 'Sallery', 'Sep-10-2018', '2 Lakewood Lane', 'Texas', '77844', '979-134-4402');

#### **INSERT INTO ROOM VALUES**

(91586673, 50779101, 'Single', 'Ocean', '100', 'Y', 'Y');

INSERT INTO ROOM VALUES

(98270788, 50779101, 'Double', 'Mountain', '150', 'Y', 'N');

INSERT INTO ROOM VALUES

(41641531, 50779101, 'Queen', 'Garden', '200', 'Y', 'N');

INSERT INTO ROOM VALUES

(78181066, 50779101, 'King', 'Ocean', '250', 'N', 'Y');

INSERT INTO ROOM VALUES

(43637536, 74232147, 'Suite', 'Mountain', '300', 'Y', 'Y');

INSERT INTO ROOM VALUES

(60719311, 74232147, 'King Suite', 'Mountain', '350', 'Y', 'Y');

INSERT INTO ROOM VALUES

(59923845, 74232147, 'Queen', 'Ocean', '200', 'N', 'Y');

INSERT INTO ROOM VALUES

(05894565, 74232147, 'Queen', 'Garden', '200', 'N', 'N');

INSERT INTO ROOM VALUES

(71924865, 55949622, 'Double', 'Mountain', '150', 'Y', 'Y');

INSERT INTO ROOM VALUES

(14567892, 55949622, 'Queen', 'Ocean', '200', 'Y', 'Y');

INSERT INTO ROOM VALUES

(91357673, 55949622, 'Single', 'Ocean', '100', 'Y', 'N');

INSERT INTO ROOM VALUES

(98278538, 55949622, 'Double', 'Mountain', '150', 'N', 'N');

INSERT INTO ROOM VALUES

(41268531, 42358026, 'Queen', 'Garden', '200', 'N', 'Y');

INSERT INTO ROOM VALUES

(91048673, 42358026, 'Single', 'Ocean', '100', 'Y', 'Y');

INSERT INTO ROOM VALUES

```
(98073788, 42358026, 'Double', 'Mountain', '150', 'N', 'Y');
INSERT INTO ROOM VALUES
(40481531, 42358026, 'Queen', 'Garden', '200', 'Y', 'N');
INSERT INTO ROOM VALUES
(78208066, 42358026, 'King', 'Ocean', '250', 'Y', 'Y');
INSERT INTO ROOM VALUES
(43684736, 42358026, 'Suite', 'Mountain', '300', 'N', 'Y');
INSERT INTO ROOM VALUES
(60706711, 42358026, 'King Suite', 'Mountain', '350', 'Y', 'N');
INSERT INTO ROOM VALUES
(59957845, 72185384, 'Queen', 'Ocean', '200', 'N', 'N');
INSERT INTO ROOM VALUES
(00674565, 72185384, 'Queen', 'Garden', '200', 'Y', 'Y');
INSERT INTO ROOM VALUES
(70674865, 72185384, 'Double', 'Mountain', '150', 'Y', 'N');
INSERT INTO ROOM VALUES
(85667892, 72185384, 'Queen', 'Ocean', '200', 'N', 'N');
INSERT INTO ROOM VALUES
(91089673, 72185384, 'Single', 'Ocean', '100', 'Y', 'Y');
INSERT INTO ROOM VALUES
(97678538, 72185384, 'Double', 'Mountain', '200', 'N', 'Y');
INSERT INTO ROOM VALUES
(49788531, 50779101, 'Queen', 'Garden', '200', 'N', 'Y');
```

INSERT INTO CREDITCARD VALUES (3555877580503138, 37604878, '11/25/2018'); INSERT INTO CREDITCARD VALUES (3575513068576959, 77325758, '09/30/2018'); INSERT INTO CREDITCARD VALUES (4041599148735479, 92123508, '01/19/2019'): INSERT INTO CREDITCARD VALUES (3585813432224858, 60239167, '05/22/2018'); INSERT INTO CREDITCARD VALUES (30236348963202, 04524369, '09/18/2018'); INSERT INTO CREDITCARD VALUES (4405715380723151, 53193626, '01/23/2019'); INSERT INTO CREDITCARD VALUES (30370025710733, 16132010, '08/30/2018'); INSERT INTO CREDITCARD VALUES (30314860272466, 14315054, '09/09/2018'); INSERT INTO CREDITCARD VALUES (201618725346064, 35323650, '06/06/2018'); INSERT INTO CREDITCARD VALUES (3579629014091335, 21258260, '05/31/2018'); INSERT INTO CREDITCARD VALUES (3564295351914591, 55590986, '04/23/2019');

INSERT INTO CREDITCARD VALUES (3535343799203015, 10398735, '10/18/2018'); INSERT INTO CREDITCARD VALUES (6767811141213116, 24827593, '04/17/2019'); INSERT INTO CREDITCARD VALUES (6709612276083829, 93325471, '06/08/2018'); INSERT INTO CREDITCARD VALUES (3556022549061444, 62569877, '06/20/2018'); INSERT INTO CREDITCARD VALUES (3572962716217149, 32488824, '10/17/2018'); INSERT INTO CREDITCARD VALUES (3577843646043521, 57705854, '08/15/2018'); INSERT INTO CREDITCARD VALUES (5602256408455446, 51357215, '04/15/2019'); INSERT INTO CREDITCARD VALUES (2015490069153034, 33479043, '05/30/2018'); INSERT INTO CREDITCARD VALUES (5018420550249833, 44574019, '05/05/2018');

#### INSERT INTO BOOKING VALUES

(68503130, 37604878, 91586673, 3555877580503138, '04/06/2019', '05/19/2018', '11/23/2018', 3);

#### INSERT INTO BOOKING VALUES

(16763378, 77325758, 98270788, 3575513068576959, '02/21/2019', '12/18/2018', '11/21/2018', 12);

#### INSERT INTO BOOKING VALUES

(65620193, 92123508, 41641531, 4041599148735479, '06/26/2018', '06/25/2018', '01/26/2019', 7);

#### INSERT INTO BOOKING VALUES

(08185357, 60239167, 78181066, 3585813432224858, '07/14/2018', '07/30/2018', '12/26/2018', 12);

# INSERT INTO BOOKING VALUES

(38320133, 04524369, 43637536, 30236348963202, '12/28/2018', '07/28/2018', '02/26/2019', 20);

#### INSERT INTO BOOKING VALUES

(17941818, 53193626, 60719311, 4405715380723151, '09/03/2018', '09/09/2018', '01/14/2019', 13);

#### INSERT INTO BOOKING VALUES

(63938417, 16132010, 59923845, 30370025710733, '07/26/2018', '09/23/2018', '03/14/2019', 8); INSERT INTO BOOKING VALUES

(43804739, 14315054, 05894565, 30314860272466, '03/10/2019', '12/04/2018', '05/15/2018', 15);

#### INSERT INTO BOOKING VALUES

(62733039, 35323650, 71924865, 201618725346064, '12/10/2018', '09/21/2018', '10/30/2018', 1);

#### INSERT INTO BOOKING VALUES

(91234277, 21258260, 14567892, 3579629014091335, '08/18/2018', '05/21/2018', '11/17/2018', 12);

#### INSERT INTO BOOKING VALUES

(28684070, 55590986, 91357673, 3564295351914591, '01/22/2019', '08/21/2018', '05/27/2018', 10);

#### INSERT INTO BOOKING VALUES

(49891850, 10398735, 98278538, 3535343799203015, '09/11/2018', '08/17/2018', '02/19/2019', 3);

#### INSERT INTO BOOKING VALUES

(89386369, 24827593, 41268531, 6767811141213116, '05/12/2018', '02/14/2019', '10/13/2018', 19);

#### INSERT INTO BOOKING VALUES

(17954188, 93325471, 91048673, 6709612276083829, '03/17/2019', '11/24/2018', '08/28/2018', 14);

#### INSERT INTO BOOKING VALUES

(32437738, 62569877, 98073788, 3556022549061444, '04/06/2019', '06/18/2018', '08/04/2018', '9);

#### INSERT INTO BOOKING VALUES

(63499902, 32488824, 40481531, 3572962716217149, '08/11/2018', '08/02/2018', '04/26/2019', 13);

#### INSERT INTO BOOKING VALUES

(13413874, 57705854, 78208066, 3577843646043521, '02/06/2019', '05/01/2019', '12/22/2018', 13);

#### INSERT INTO BOOKING VALUES

(74934960, 51357215, 43684736, 5602256408455446, '11/26/2018', '06/09/2018', '02/01/2019', 16);

#### INSERT INTO BOOKING VALUES

(58514653, 33479043, 60706711, 2015490069153034, '03/29/2019', '02/12/2019', '08/22/2018', 3);

#### INSERT INTO BOOKING VALUES

(77912882, 44574019, 59957845, 5018420550249833, '08/20/2018', '05/13/2018', '02/04/2019', 19);

# **SQL** query

SELECT ROOM\_ID, ROOM\_TYPE, PRICE FROM ROOM WHERE PRICE > 200;

SELECT \*
FROM EMPLOYEE
WHERE STAFF POSTAL = '20380';

SELECT STAFF\_ID, FNAME, LNAME, HOTEL\_NAME FROM EMPLOYEE, HOTEL WHERE EMPLOYEE.HOTEL\_ID = HOTEL.HOTEL\_ID AND FNAME LIKE '%a%';

SELECT DISTINCT VIEW\_TYPE AS VIEWS FROM ROOM;

SELECT HOTEL\_NAME, COUNT(FNAME) AS NUMBEROFEMPLOYEES FROM EMPLOYEE, HOTEL WHERE HOTEL.HOTEL\_ID = EMPLOYEE.HOTEL\_ID GROUP BY HOTEL NAME;

SELECT CUST\_FIRST, CUST\_LAST, CARD\_NUMBER FROM CUSTOMER, CREDITCARD WHERE CUSTOMER.CUSTOMER\_ID = CREDITCARD.CUSTOMER\_ID AND CUST\_STATE = 'California';

SELECT BOOK\_ID, ROOM\_TYPE, CUSTOMER\_ID, (PRICE\*NUM\_NIGHTS) AS TOTAL FROM ROOM, BOOKING
WHERE ROOM.ROOM\_ID = BOOKING.ROOM\_ID
AND NOT VIEW\_TYPE = 'Ocean';

SELECT CUSTOMER\_ID, CUST\_FIRST, CUST\_LAST FROM CUSTOMER WHERE CUSTOMER\_ID IN (SELECT CUSTOMER\_ID FROM BOOKING WHERE NOT BOOK\_ID = 77912882); SELECT ROOM.ROOM\_ID, SUM(NUM\_NIGHTS)
FROM ROOM, BOOKING
WHERE ROOM.ROOM\_ID = BOOKING.ROOM\_ID
AND (ROOM.ROOM\_ID = 91586673 OR ROOM.ROOM\_ID = 78181066)
GROUP BY ROOM.ROOM\_ID;

SELECT HOTEL\_NAME, AVG(PRICE) AS AVG\_PRICE FROM HOTEL, ROOM WHERE HOTEL.HOTEL\_ID = ROOM.HOTEL\_ID GROUP BY HOTEL\_NAME;

SELECT DISTINCT HOTEL\_NAME, STAFF\_ID FROM HOTEL LEFT JOIN EMPLOYEE ON HOTEL.HOTEL\_ID = EMPLOYEE.HOTEL\_ID ORDER BY HOTEL\_NAME;

SELECT CUST\_FIRST, CUST\_LAST FROM CUSTOMER WHERE CUST\_LAST LIKE '\_a%' ORDER BY CUST\_LAST DESC;

SELECT HOTEL\_NAME, ROOM\_ID, PRICE FROM HOTEL INNER JOIN ROOM ON HOTEL.HOTEL\_ID = ROOM.HOTEL\_ID WHERE PRICE < 250 ORDER BY HOTEL NAME;

# Command line Logfiles

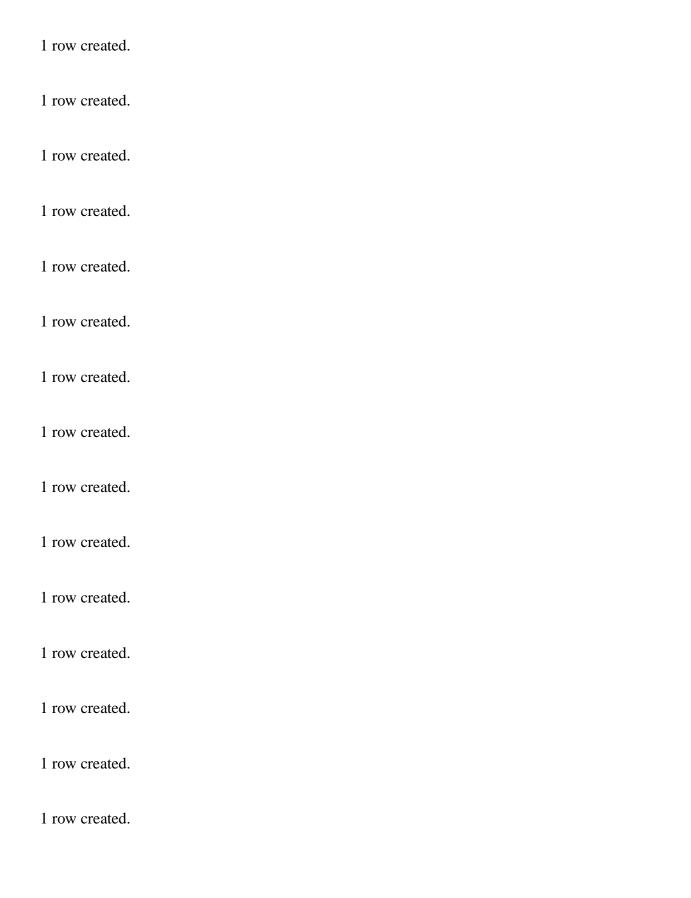
```
Last login: Tue May 7 13:41:55 2019 from dhcp-bus184-8.sfsu.edu
# WARNING: FOR AUTHORIZED USE ONLY. ALL ACTIVITES MAY BE MONITORED.
                                       #
#
                                       #
#
[vllanomarotta@unixlab ~]$ source /usr/bin/oracle_profile
[vllanomarotta@unixlab ~]$ who am i
                   2019-05-07 13:46 (dhcp-bus184-8.sfsu.edu)
vllanomarotta pts/1
[vllanomarotta@unixlab ~]$ ls -1
total 12
drwxr-xr-x+ 3 vllanomarotta vllanomarotta 4096 May 6 18:17 OracleFiles
drwx----- 2 vllanomarotta vllanomarotta 4096 Jan 4 2012 PRIVATE
drwxr-xr-x+ 2 vllanomarotta vllanomarotta 4096 Jan 4 2012 public html
[vllanomarotta@unixlab ~]$ cd OracleFiles
[vllanomarotta@unixlab OracleFiles]$ ls -1
total 12
-rw-r--r-+ 1 vllanomarotta vllanomarotta 1595 Apr 8 17:27 mailorder.sql
drwxr-xr-x+ 2 vllanomarotta vllanomarotta 4096 May 7 13:28 Project464
-rw-r--r-+ 1 vllanomarotta vllanomarotta 2774 Apr 8 18:14 student.sql
[vllanomarotta@unixlab OracleFiles]$ cd Project464
[vllanomarotta@unixlab Project464]$ ls -l
total 20
-rw-r--r-+ 1 vllanomarotta vllanomarotta 2169 May 6 19:09 hotel_build.sql
-rw-r--r-+ 1 vllanomarotta vllanomarotta 11209 May 7 09:58 hotel load.sql
-rw-r--r-+ 1 vllanomarotta vllanomarotta 1637 May 7 13:32 hotel_query.sql
[vllanomarotta@unixlab Project464]$ sqlplus /
SQL*Plus: Release 11.2.0.3.0 Production on Tue May 7 13:49:40 2019
Copyright (c) 1982, 2011, Oracle. All rights reserved.
Connected to:
```

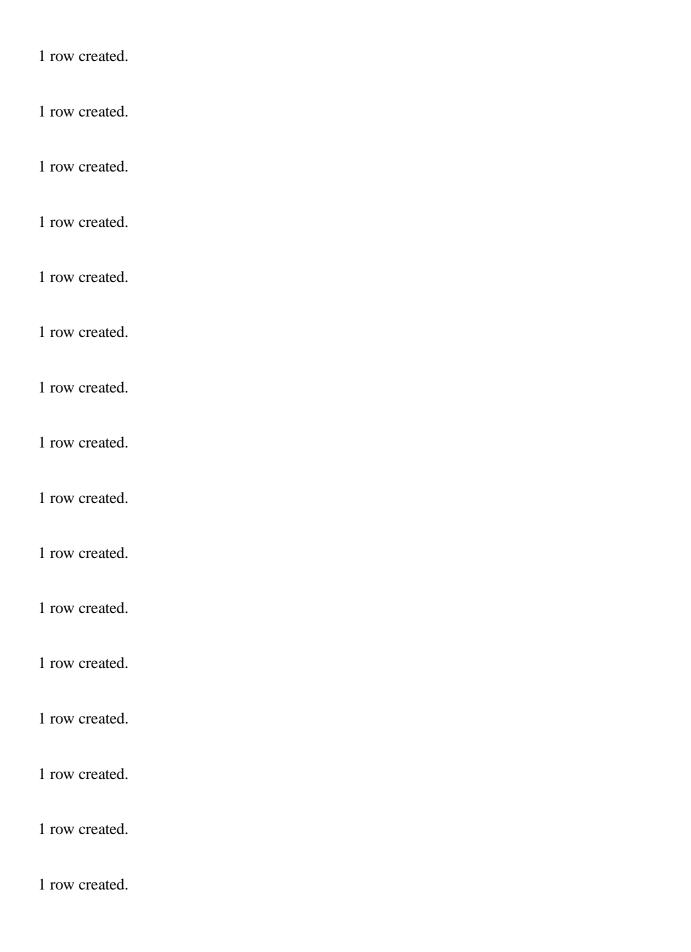
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options

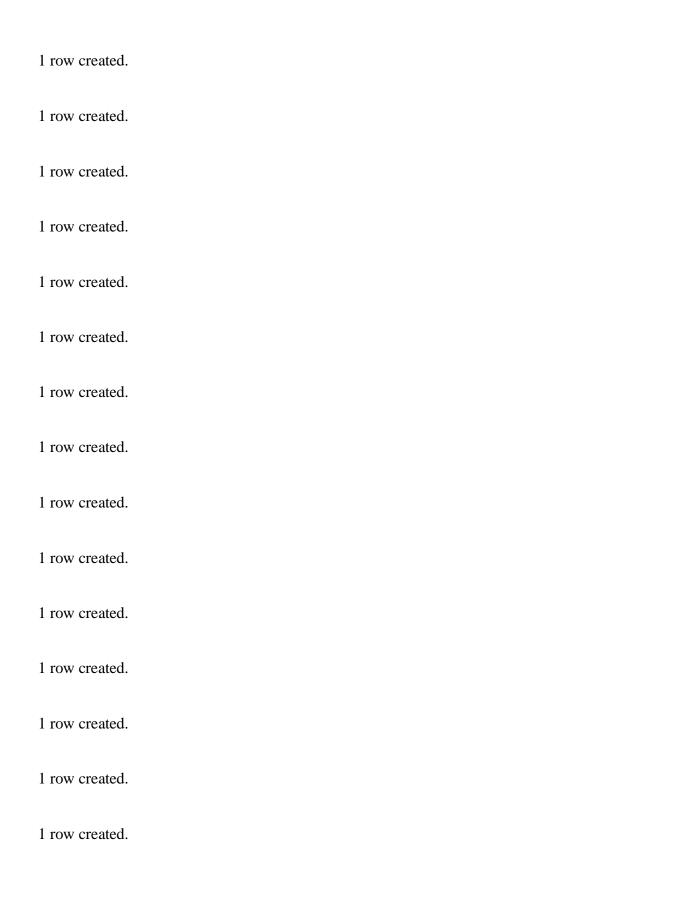
SQL> start hotel\_build.sql

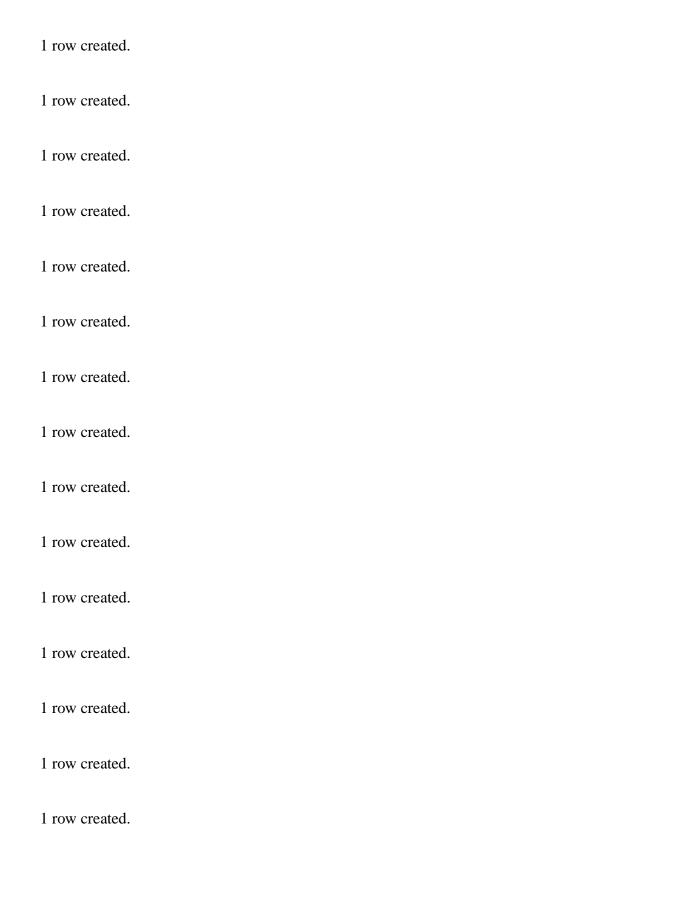
Table dropped.

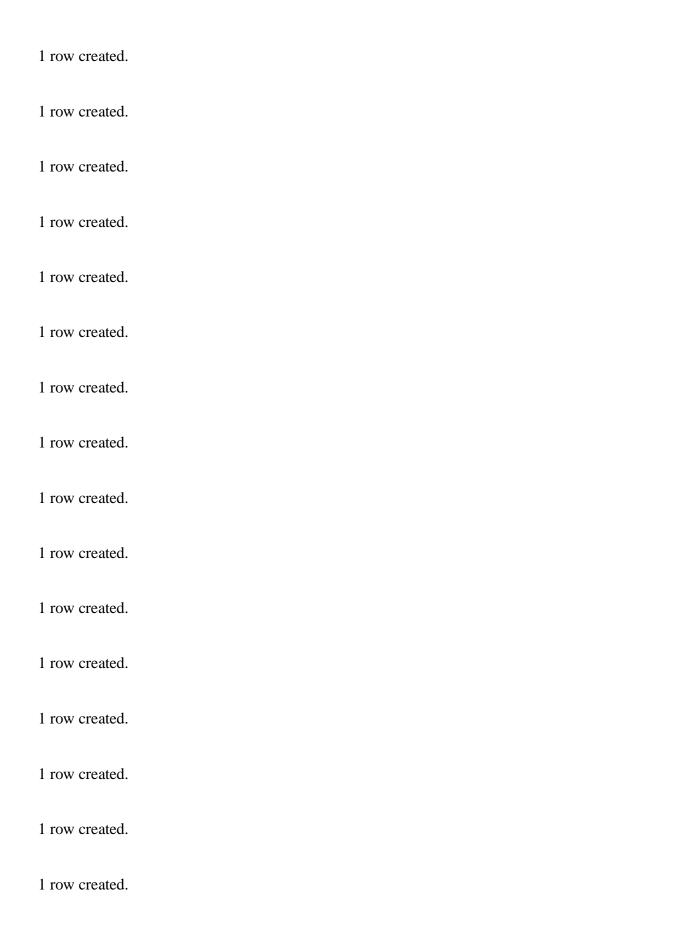
Table created.
Table dropped.
Table created.
SQL> start hotel_load.sql
1 row created.

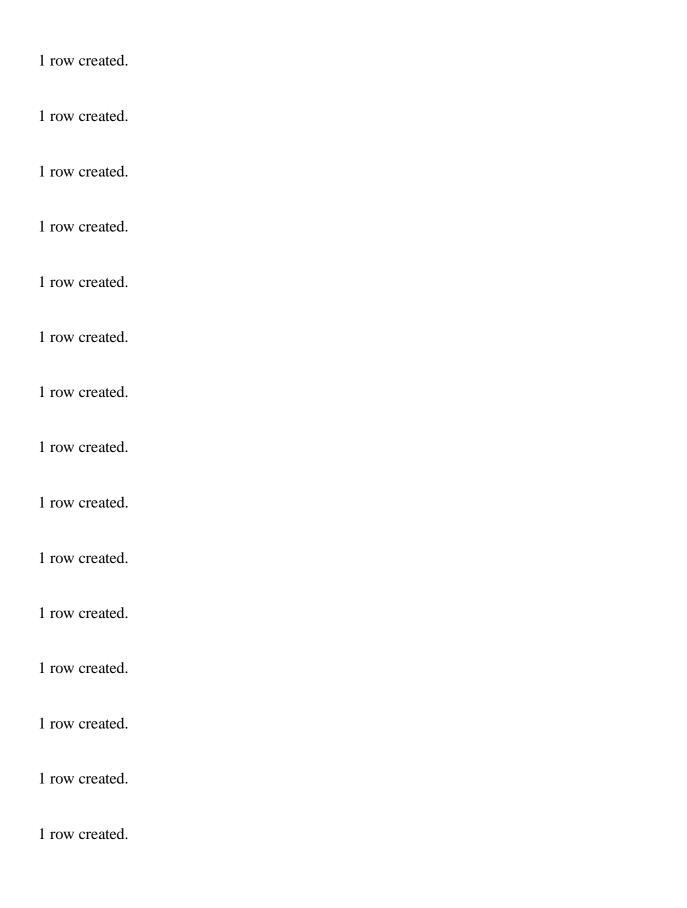












1 row created.

SQL> start hotel\_query.sql

ROOM_ID ROOM_TYPE		PRICE
78181066 King	250	
43637536 Suite	300	
60719311 King Suite	350	
78208066 King	250	
43684736 Suite	300	
60706711 King Suite	350	

6 rows selected.

STAFF_ID	HOTEL_ID FNAME	LNAME

DOB STAFF\_STREET STAFF\_PO

.....

PHONE NUMBER

-----

57900845 72185384 Jillian Guillot

Sep-24-2018 26723 Gale Hill Hawaii 20380

202-924-6987

80204797 50779101 Bella Donohue

Sep-25-2018 8 Fuller Pass Hawaii 20380

212-215-6801

STAFF\_ID HOTEL\_ID FNAME LNAME

..........

DOB STAFF\_STREET STAFF\_PO

------

# PHONE\_NUMBER

-----

44259084 50779101 Basile Gowdy

Sep-26-2018 6119 Anzinger Street Hawaii 20380

253-560-4397

STAFF_ID FN	AME	LNAME	HOTEL_NAME
57900845 Jillia 80204797 Bell 44259084 Basi 76395128 May 77144637 Paul 45917022 Juda	a Dor le Gov ne M ina Le	nohue I wdy I cComish Page I	rtmann Pfannerstill Pfannerstill Hartmann Hansen and Schulist

6 rows selected.

**VIEWS** 

-----

Garden

Ocean

Mountain

HOTEL_NAME	NUMBEROFEMPLOYEES	5			
Nicolas	2				

Nicolas 2 Thiel 2 Hansen and Schulist

Hartmann 2
Pfannerstill 2

CUST_FIRST	CUST_LAST	CARD_NUMBER

2

Maynord McMurraya 3.0236E+13

Pauly Monan 4.4057E+15 Chloette Midson 2.0162E+14 Patricio Garlicke 2.0155E+15

BOOK_ID ROOM_TYPE	CUST	TOMER_ID	TOTAL
16763378 Double	77325758	1800	
65620193 Queen	92123508	1400	
38320133 Suite	4524369	6000	
17941818 King Suite	53193626	4550	
43804739 Queen	14315054	3000	
62733039 Double	35323650	150	
49891850 Double	10398735	450	
89386369 Queen	24827593	3800	
32437738 Double	62569877	1350	
63499902 Queen	32488824	2600	
74934960 Suite	51357215	4800	
BOOK_ID ROOM_TYPE	CUST	TOMER_ID	TOTAL
58514653 King Suite	33479043	1050	

12 rows selected.

# CUSTOMER\_ID CUST\_FIRST CUST\_LAST

37604878 Tybalt	Varndell
77325758 Cristin	Cromwell
92123508 Stephanus	Wantling
60239167 Englebert	Stranger
4524369 Maynord	McMurraya
53193626 Pauly	Monan
16132010 Catharina	Spieght
14315054 Othelia	McOmish
35323650 Chloette	Midson
21258260 Pandora	Kupis
55590986 Lothario	Cowhig

# CUSTOMER\_ID CUST\_FIRST CUST\_LAST

10398735 Cecil	Pittman
24827593 Hyatt	Vassall
93325471 Sergeant	Kalisz
62569877 Pren	Godrich
32488824 Chloe	Melding
57705854 Bobette	Mangion
51357215 Myca	Lewisham
33479043 Patricio	Garlicke

# 19 rows selected.

# ROOM\_ID SUM(NUM\_NIGHTS)

-----

78181066 12 91586673 3

# HOTEL\_NAME AVG\_PRICE

-----

Nicolas 262.5 Thiel 221.428571 Hansen and Schulist 150 Pfannerstill 180 Hartmann 175

# HOTEL\_NAME STAFF\_ID

-----

Hansen and Schulist 61428348 Hansen and Schulist 77144637 Hartmann 57900845 76395128 Hartmann **Nicolas** 19567544 **Nicolas** 46784226 Pfannerstill 44259084 Pfannerstill 80204797 Thiel 16965541 Thiel 45917022

10 rows selected.

# CUST\_FIRST CUST\_LAST

-----

Stephanus Wantling
Hyatt Vassall
Tybalt Varndell
Budd Varga
Bobette Mangion
Sergeant Kalisz
Patricio Garlicke

7 rows selected.

HOTEL_NAM	IE RO	OM_ID	PRICE
Hansen and Sc	hulist 71924	865 1	50
Hansen and Sc	hulist 98278	538 1	.50
Hansen and Sc	hulist 91357	673 1	.00
Hansen and Sc	hulist 14567	892 2	200
Hartmann	91089673	100	
Hartmann Hartmann Hartmann	97678538	200	
Hartmann	70674865	150	
Hartmann	59957845	200	
Hartmann	674565	200	
Nicolas	5894565		
HOTEL_NAME ROOM_ID PRICE			PRICE
Nicolas	59923845	200	
Pfannerstill	41641531	200	
Pfannerstill	49788531	200	
Pfannerstill	91586673	100	
Pfannerstill	98270788	150	
Thiel			
Thiel	91048673	100	
Thiel	41268531	200	
Thiel	40481531	200	

20 rows selected.

SQL>