



**The Faculty of Information and Communication Technology
Mahidol University**

**ITCS241 Database Management System
Project 2: Centara Hotel & Resorts**

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Business domain: Hotel and resorts

Company: The Centara Hotels & Resorts

Introduction

A hotel business is a sector of business that focuses on providing travelers and guests with accommodations to stay. It is a place that offers short-term, paid lodging. Providing a wide range of services and amenities, as well as attending to the needs of the targeted clientele, is essential for success in this industry. The hotel business may also include member registration, reservations, recommendations, providing food and drinks, and other services or facilities.

From a single hotel in Bangkok, which was founded in 1983, to 93 properties across Asia and the Middle East today, Centara has achieved significant milestones over the past four decades.

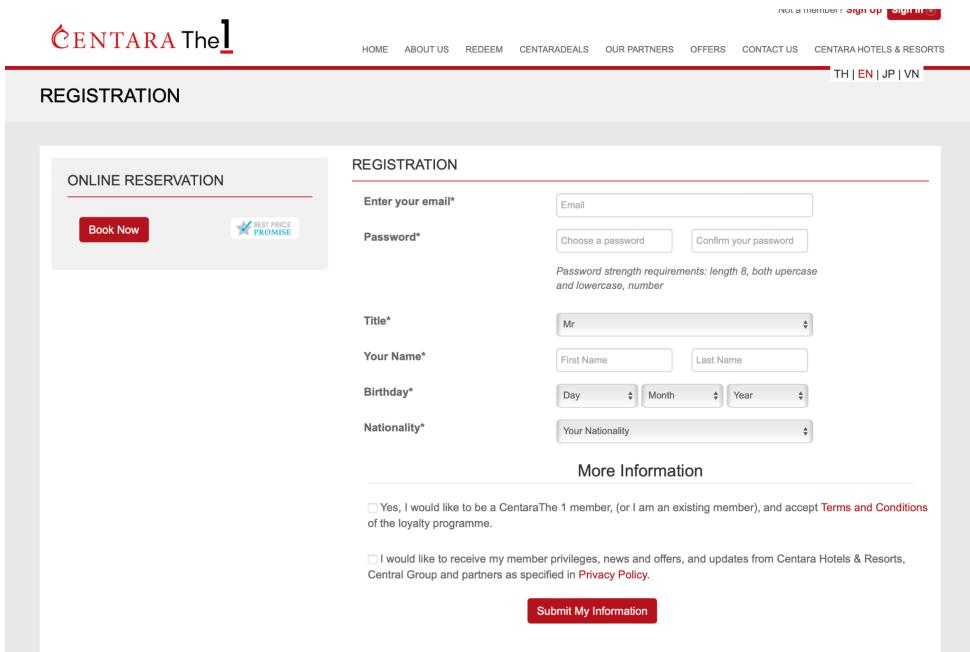
In 1990, Centara Hotels & Resorts became a publicly listed company on the Stock Exchange of Thailand. Subsequently, Centara became the first and only hotel group in Thailand to receive the Royal Warrant of Appointment (Garuda) from His Majesty King Adulyadej Bhumibol in 2014. With 46 deluxe and first-class hotels around Thailand and 24 hotels and resorts in the Maldives, Vietnam, Bali, Sri Lanka, Qatar, Laos, Oman, Turkey, and China, Centara is presently the top hotel chain in the country.

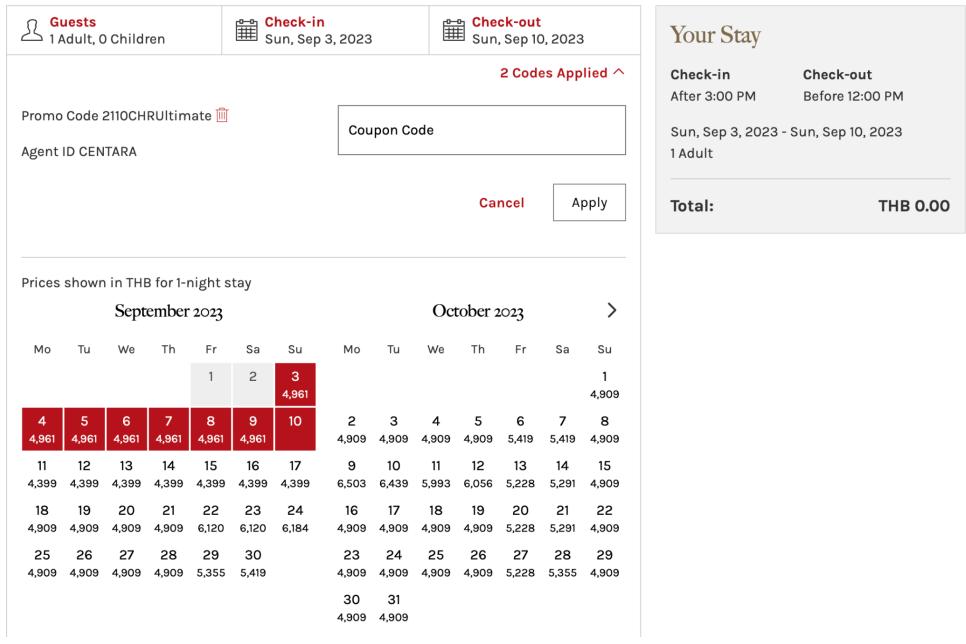
Nowadays, Centara places a high priority on both ongoing professional development and personal growth in order to create a workforce that provides guests with the highest quality service. Centara strives to create lasting memories for visitors of all ages since it is steadfastly committed to providing unforgettable family experiences.

As Centara looks to the future, Centara remains dedicated to growth and success, striving to become one of the world's top 100 hotel operators by 2027, with numerous projects in the pipeline in Thailand, across Asia, the Middle East, and beyond.

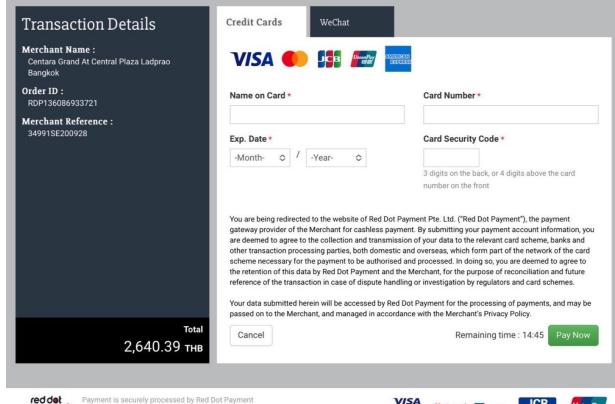
Business processes

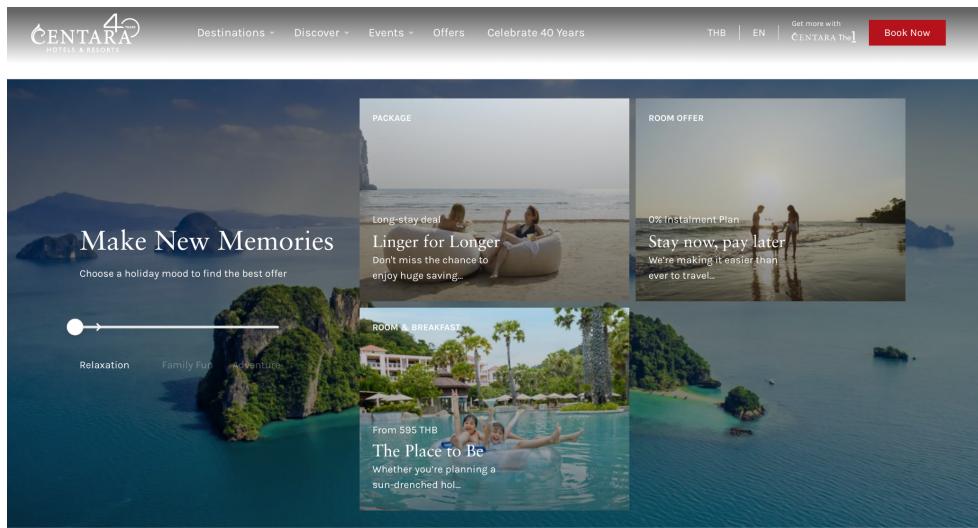
Within Centara's business processes and operations, there are various types of activities and responsibilities. Some of them are intended to expand customer channels and improve consumer experience.

Process:	CentaraThe1 registration
Explanation:	<p>Before a customer can engage in activities such as making a room booking or a payment via Centara's website, a customer needs a CentaraThe1 account. Customers can register for a CentaraThe1 card, earning points for their accommodations and receiving discounts. Additionally, these points can be managed to be redeemed for complimentary stays and a variety of other rewarding benefits.</p> <p>CentaraThe1 requires:</p> <ol style="list-style-type: none"> 1. An email address (as username), password, title, name and nationality. 2. Check the registered email and click on the verification link. 3. The registration is successful, and your CentaraThe1 account is ready, so you can log in to Centara's site. 

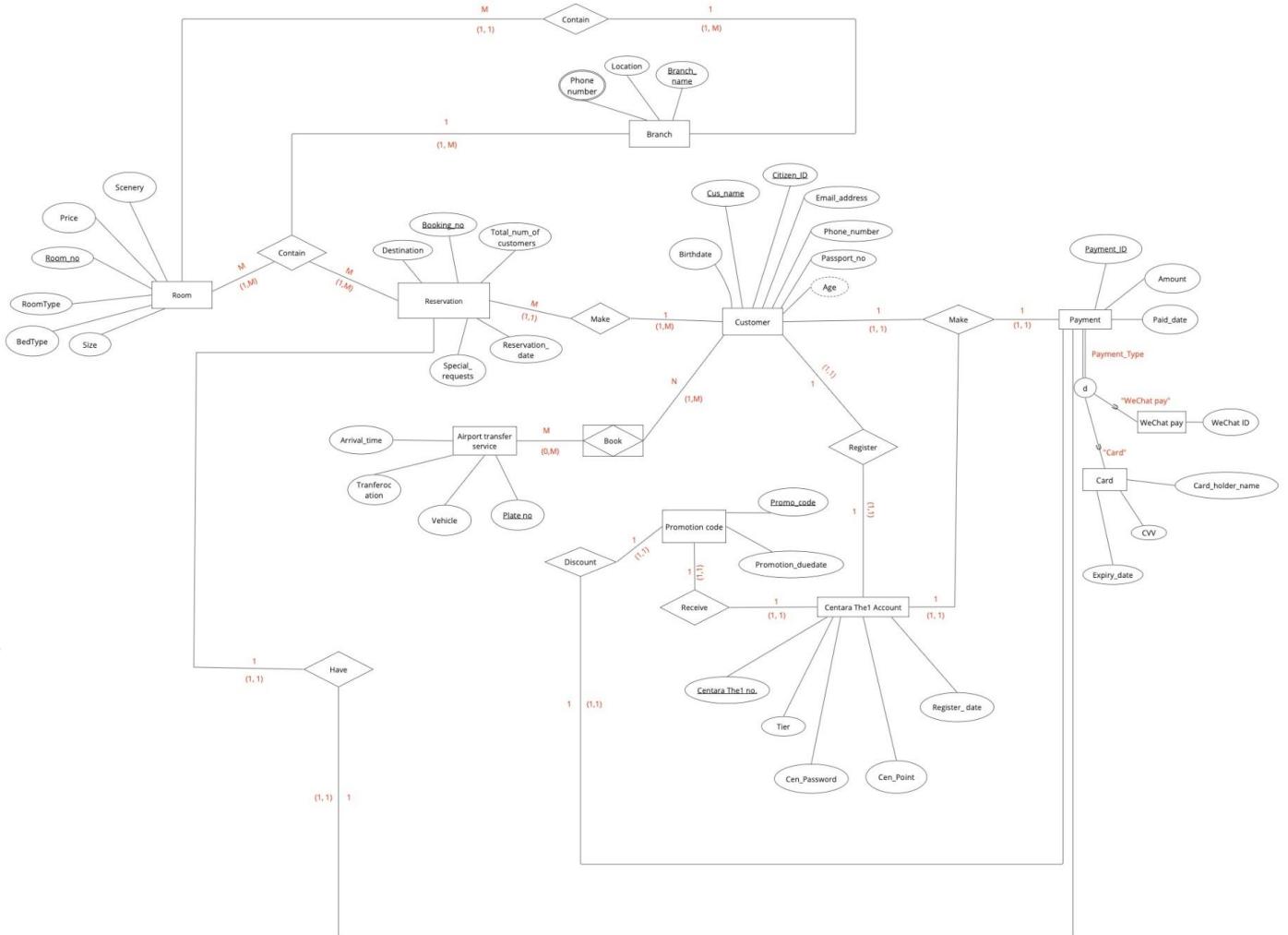
Process:	Hotel reservation
Explanation:	<p>When customers enter the hotel, they can reserve a room with hotel staff at the counter. The staff will inform customers about the package or available rooms, each type of room, the total expense, any discounts or promotions, and other services in which they might be interested, such as an airport transfer, a dining room, or an event room. After purchasing, the customer can check into the reserved accommodation.</p>  <p>The screenshot shows a hotel reservation form. At the top, it displays guest information (1 Adult, 0 Children), check-in date (Sun, Sep 3, 2023), and check-out date (Sun, Sep 10, 2023). It also shows a promotional code applied ('2 Codes Applied ^') and a coupon code input field. Below the form is a calendar grid for September and October 2023. The calendar highlights Saturday, September 3rd, and Sunday, September 10th, both of which are marked with red boxes and labeled '4,961'. The price for most other days in September ranges from 4,399 to 6,184 THB. In October, prices range from 4,909 to 5,419 THB. The right side of the interface shows a summary of the stay: Check-in after 3:00 PM, Check-out before 12:00 PM, dates from Sep 3 to Sep 10, 2023, 1 adult, and a total price of THB 0.00.</p>

Process:	Hotels & Resorts recommendation
Explanation:	<p>For a customer who is unsure about where to go, Centara's website can suggest all the departments of the hotel and resort, along with its starting prices and review scores from other customers. The customer can easily find a room for their destination and manage their budget using the provided starting price.</p> 

Process:	Making payment
Explanation:	<p>The responsibility for the payment process lies with the customer, who is required to pay for the room booking they have confirmed during the booking process. Within Centara's website, payments can be made using credit/debit cards such as BBL, KBank, Krungsri, KTC, and other available options. The customer needs to enter their name on the card, card number, expiration date, and card security code. Holders of the CentaraThe1 card or those with valid coupons can receive a special discount on their booking. The payment process also supports various currency exchanges for convenience.</p> 

Process:	Package recommendation
Explanation:	<p>Recommend packages and special offers to customers. These include options such as 0% installment payment plans and exclusive discounts for stays at Centara hotels.</p>  <p>The screenshot shows the Centara Hotels & Resorts website. At the top, there's a navigation bar with links for Destinations, Discover, Events, Offers, and Celebrate 40 Years. Below the navigation, there's a large banner with the text "Make New Memories" and "Choose a holiday mood to find the best offer". A horizontal slider allows users to choose between "Relaxation", "Family Fun", and "Adventure". To the right of the slider, there are three promotional boxes: "PACKAGE" (Long-stay deal, Linger for Longer), "ROOM OFFER" (0% Instalment Plan, Stay now, pay later), and "ROOM + BREAKFAST" (From 595 THB, The Place to Be). The background of the page features a scenic image of a tropical island.</p>

Revised EERD



8-step Transformations (Step-by-step)

Step 1 : Regular Entity

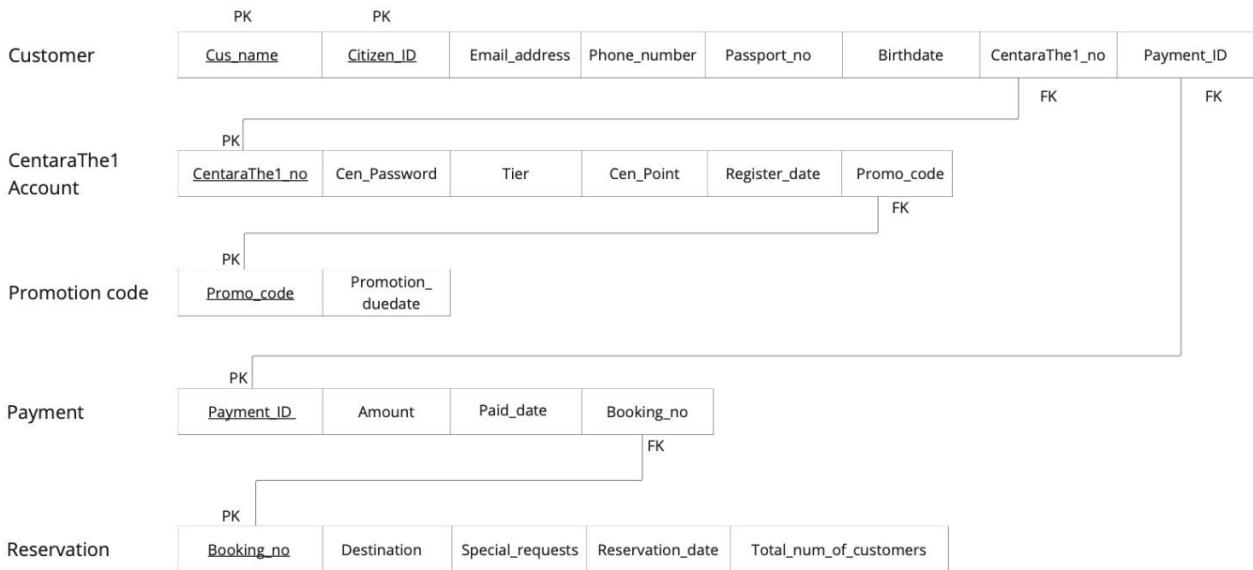
Customer	PK					
	Cus_name	Citizen_ID	Email_address	Phone_number	Passport_no	Birthdate
Centara The1 Account	PK					
	CentaraThe1_no.	Cen_Password	Cen_Point	Register_date	Tier	
Reservation	PK					
	Booking_no.	Destination	Special_requests	Reserve_date	Total_num_of_customers	
Payment	PK					
	Payment_ID	Amount	Paid_date			
Promotion code	PK					
	Promo_code	Promotion_duedate				
Branch	PK					
	Branch_name	Branch_location				
Airport transfer service	PK					
	Plate_no	Vehicle	Arrival_time	Tranfer_location		
Room	PK					
	Room's no.	Price	Size	Scenery	RoomType	BedType

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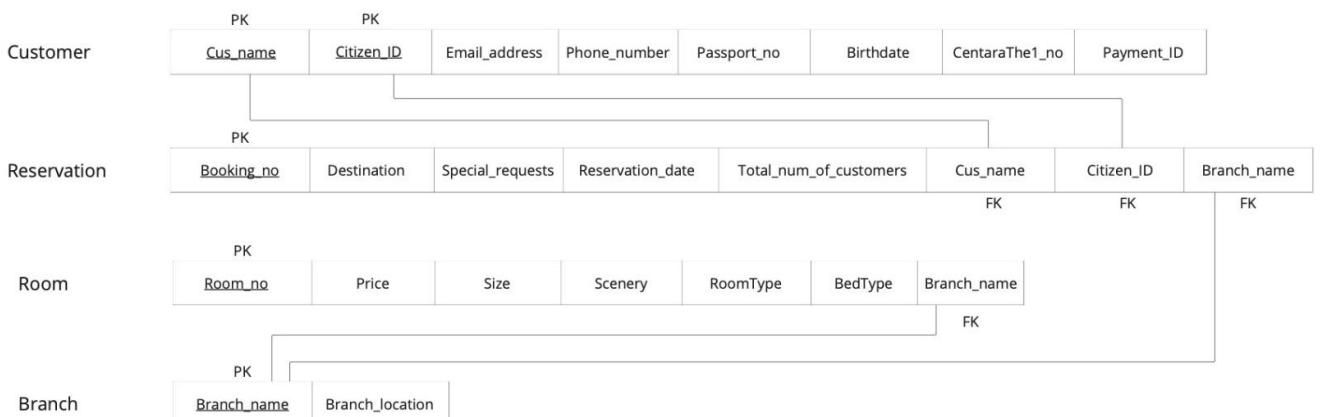
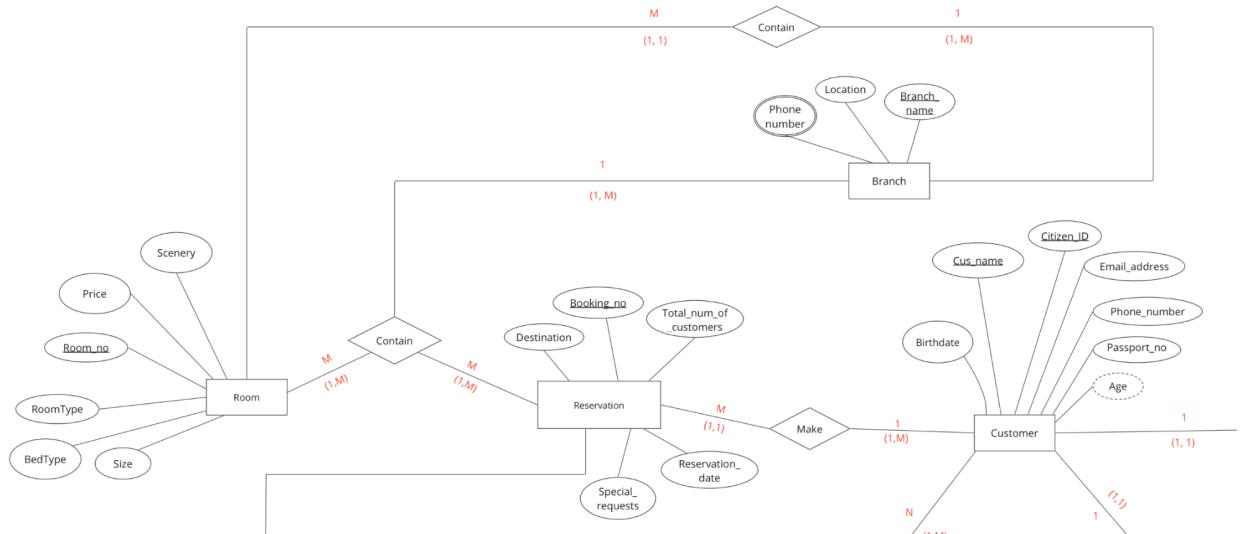
Step 2: Weak Entity

Don't have

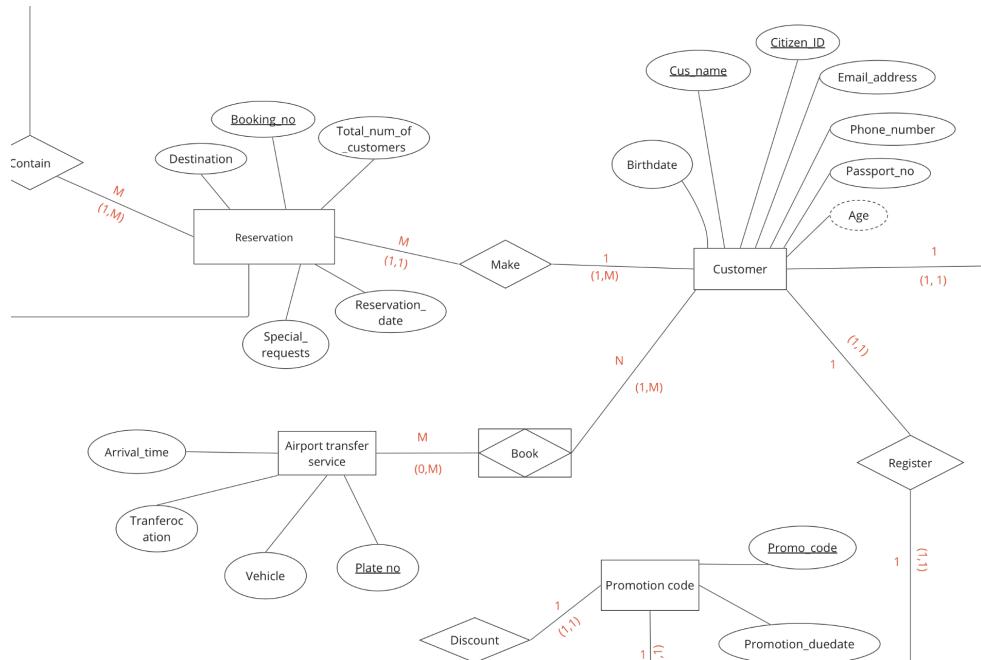
Step 3 : 1-to-1 Relationship



Step 4 : 1-to-M Relationship

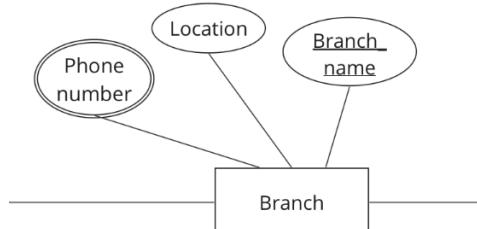


Step 5 : M-to-N Relationship



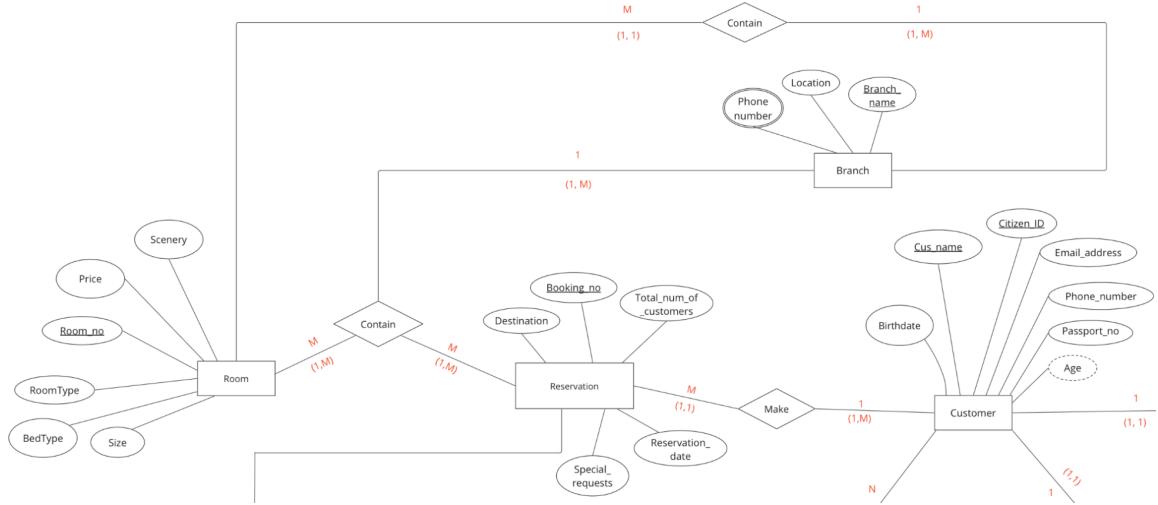
	PK	PK													
Customer	Cus_name	Citizen_ID	Email_address	Phone_number	Passport_no	Birthdate	CentraThe1_no	Payment_ID							
<hr/>															
Airport transfer service															
<table border="1"> <thead> <tr> <th>PK</th> <th>Plate_no</th> <th>Vehicle</th> <th>Arrival_time</th> <th>Tranfer_location</th> </tr> </thead> </table>										PK	Plate_no	Vehicle	Arrival_time	Tranfer_location	
PK	Plate_no	Vehicle	Arrival_time	Tranfer_location											
<hr/>															
Booking															
<table border="1"> <thead> <tr> <th>PK,FK</th> <th>PK,FK</th> <th>PK,FK</th> </tr> <tr> <td>Cus_name</td> <td>Citizen_ID</td> <td>Plate_no</td> </tr> </thead> </table>										PK,FK	PK,FK	PK,FK	Cus_name	Citizen_ID	Plate_no
PK,FK	PK,FK	PK,FK													
Cus_name	Citizen_ID	Plate_no													

Step 6 : Multivalue

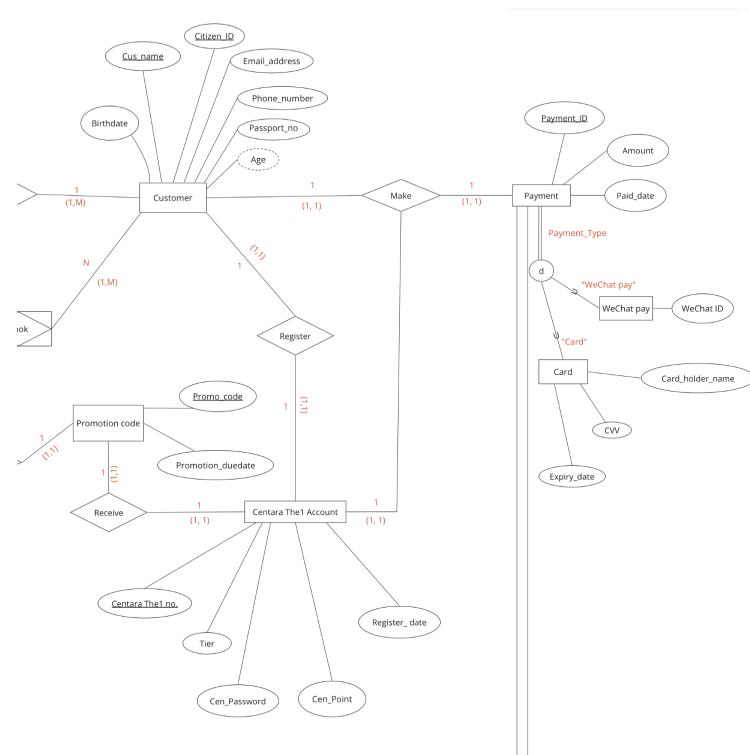


	PK	
Branch	Branch_name	Branch_location
<hr/>		
B_PhoneNumbers	Branch_name	Branch_phonenumber

Step 7 : N-ary Relationship

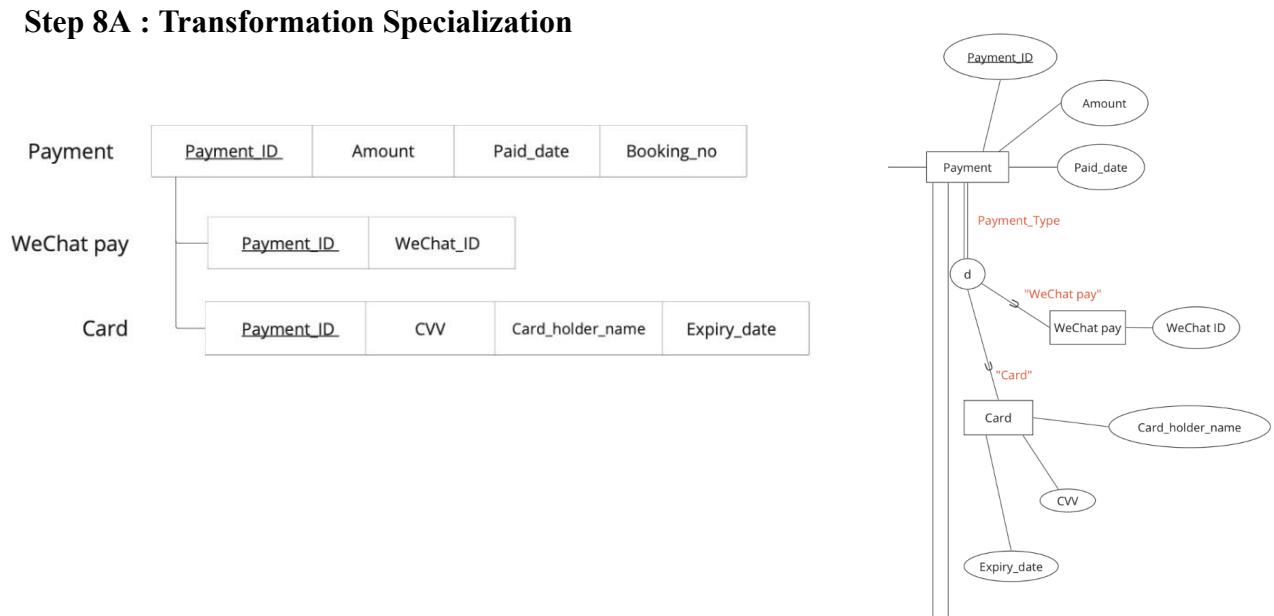


	PK						
Room	Room_no	Price	Size	Scenery	RoomType	BedType	
Branch	Branch_name						
Reservation	Booking_no	Destination	Special_requests	Reservation_date	Total_num_of_customers	Cus_name	
Contain	Booking_no	Branch_name	Room_no				



Customer	Cus_name	Citizen_ID	Email_address	Phone_number	Passport_no	Birthdate	CentaraThe1_no	Payment_ID
CentaraThe1 Account	CentaraThe1_no	Cen_Password	Tier	Cen_Point	Register_date	Promo_code		
Payment	Payment_ID	Amount	Paid_date	Booking_no				
Make	Payment_ID	CentaraThe1_no	Cus_name	Citizen_ID				

Step 8A : Transformation Specialization



Final Relational Schema



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Data dictionary

Table Name	Attribute	Contents	Type	Format	Nullable	Range	Key	FK Reference Table
Customer	Cus_name	Customer's name	varchar(50)	XXXXXX			PK	
	Citizen_ID	Customer's citizen ID	char(13)	XXXXXXXXXXXXX			PK	
	Email_address	Customer's email address	varchar(50)	XXXXXX				
	Phone_number	Customer's phone number	char(10)	XXXXXXXXXX				
	Passport_no	Customer's passport number	char(11)	XXXXXXXXXX	Y			
	Birthdate	Customer's birthdate	date	yyyy-mm-dd				
	CentaraThe1_no	Customer's Centara The1 account number	char(10)	XXXXXX			FK	CentaraThe1_no (CentaraThe1Account)
	Payment_ID	Customer's PaymentID	varchar(20)	XXXXXX			FK	Payment_ID (Payment)
	Branch_name	Branch's name	varchar(100)	XXXXXX			PK	
	Branch_location	Branch's location	varchar(50)	XXXXXX				
Reservation	Booking_no	Booking's number	char(10)	XXXXXX			PK	
	Destination	Booking's destination	varchar(50)	XXXXXX				
	Special_requests	Customer's special requests	varchar(50)	XXXXXX	Y			
	Reservation_date	Reservation date	date	yyyy-mm-dd				
	Total_num_of_customers	Total number of customers	int	xx				
	Cus_name	Customer's name	varchar(50)	XXXXXX			FK	Cus_name (Customer)
	Citizen_ID	Customer's citizen ID	char(13)	XXXXXXXXXXXXX			FK	Citizen_ID (Customer)
CentaraThe1Account	CentaraThe1_no	Customer's Centara The1 account number	char(10)	XXXXXX			PK	
	Tier	Centara The1 account's level	varchar(20)	XXXXXX				
	Cen_Password	Centara The1 account's password	varchar(20)	XXXXXX				
	Cen_Point	Customer's Centara The1 Account points	int	XXXXXXXXXXXX				
	Register_date	Customer's Centara The1 Account register date	date	yyyy-mm-dd				
	Promo_code	Customer's Centara The1 Account promotion code number	varchar(10)	XXXXXX	Y		FK	Promo_code (PromotionCode)
	Room_no	Room's number (from 101 to the last room)	varchar(4)	xxxx			PK	
Room	RoomType	Room's type	varchar(20)	XXXXXX				
	BedType	Bed's type	varchar(20)	XXXXXX				
	Price	Room's price	decimal(8,2)	XXXXXXXX.xx				
	Size	Room's size	decimal(5,2)	xxx.xx				
	Scenery	Room's view	varchar(20)	XXXXXX				
Payment	Payment_ID	Payment's ID	varchar(20)	XXXXXX			PK	
	Amount	Total amount of payment	decimal(8,2)	XXXXXXXX.xx				
	Paid_date	Payment date	date	yyyy-mm-dd				
	Booking_no	Booking number	char(10)	XXXXXX			FK	Booking_no (Reservation)
PromotionCode	Promo_code	Customer's Centara The1 Account promotion code number	varchar(10)	XXXXXX			PK	
WeChatPay	Promotion_duedate	Promotion due date	date	yyyy-mm-dd				
	Payment_ID	Payments ID	varchar(20)	XXXXXX			PK,FK	Payment_ID (Payment)
	WeChat_ID	WeChat's ID	varchar(10)	XXXXXX				
Card	Payment_ID	Payment's ID	varchar(20)	XXXXXX			PK,FK	Payment_ID (Payment)
	CVV	Card Verification Value	char(3)	xxx				
	Card_holder_name	Card holder's name	varchar(50)	XXXXXX				
	Expiry_date	Card's expiry date(the end of the month)	date	yyyy-mm-dd				
Contain	Booking_no	Booking number	varchar(20)	XXXXXX			PK,FK	Booking_no (Reservation)
	Branch_name	Branch's name	varchar(100)	XXXXXX			PK,FK	Branch_Name (Branch)
	Room_no	Room's number	varchar(4)	xxx			PK,FK	Room_no (Room)
Make	Payment_ID	Payment's ID	varchar(20)	XXXXXX			PK,FK	Payment_ID (Payment)
	CentaraThe1_no	Customer's Centara The1 account number	char(10)	XXXXXX			PK,FK	CentaraThe1_no (CentaraThe1Account)
	Cus_Name	Customer's name	varchar(50)	XXXXXX			PK,FK	Cus_name (Customer)
	Citizen_ID	Customer's citizen ID	char(13)	XXXXXXXXXXXXX			PK,FK	Citizen_ID (Customer)
B_PhoneNumbers	Branch_name	Branch's name	varchar(100)	XXXXXX			PK,FK	Branch_name (Branch)
Airport_transfer_service	Branch_phonenumber	Branch's phone number	varchar(12)	XXXXXXXXXXXX			PK	
	Plate_no	Vehicle's plate number	nvarchar(7)	XXXXXX			PK	
	Arrival_time	Arrival time	datetime	yyyy-mm-dd hh:min:ss				
	Transfer_location	Airport's location	varchar(50)	XXXXXX				
Booking	Vehicle	Airport transfer service's vehicle	varchar(20)	XXXXXX				
	Cus_Name	Customer's name	varchar(50)	XXXXXX			PK,FK	Cus_name (Customer)
	Citizen_ID	Customer's citizen ID	char(13)	XXXXXX			PK,FK	Citizen_ID (Customer)
Booking	Plate_no	Vehicle's plate number	nvarchar(7)	XXXXXX			PK,FK	Plate_no (Airport_transfer_service)

Sample data of Centara database

Table: Branch	Branch_name	Branch_location
Al Hail Waves Hotel Managed By Centara	Oman	
Centara Anda Dhevi Resort and Spa Krabi	Thailand	
Centara Ao Nang Beach Resort & Spa Krabi	Thailand	
Centara Ayutthaya	Thailand	
Centara Azure Hotel Pattaya	Thailand	
Centara Ceysands Resort & Spa Sri Lanka	Sri Lanka	
Centara Chaan Talay Resort & Villas, Trat	Thailand	
Centara Grand at Central Plaza Ladprao Bangkok	Thailand	
Centara Grand at CentralWorld	Thailand	
Centara Grand Beach Resort & Villas Hua Hin	Thailand	
Centara Grand Beach Resort & Villas, Krabi	Thailand	
Centara Grand Beach Resort Phuket	Thailand	
Centara Grand Hotel Osaka	Japan	
Centara Grand Island Resort & Spa Maldives	Republic of Maldives	
Centara Grand Mirage Beach Resort Pattaya	Thailand	
Centara Hotel Hat Yai	Thailand	
Centara Karon Resort Phuket	Thailand	
Centara Kata Resort Phuket	Thailand	

Table: Promotion Code	Promo_code	Promotion_duedate
BIRTHDAY12	2012-12-31	
BIRTHDAY15	2015-12-31	
BIRTHDAY20	2020-12-31	
BIRTHDAY21	2021-12-31	
BIRTHDAY22	2022-12-31	
BIRTHDAY23	2023-12-31	
SUMMER16	2016-12-31	
SUMMER18	2018-12-31	
SUMMER19	2019-12-31	
SUMMER20	2020-12-31	
SUMMER2...	2022-12-31	
SUMMER23	2023-12-31	
WINTER20	2020-12-31	
WINTER2023	2023-12-31	
WINTER21	2021-12-31	
WINTER22	2022-12-31	
WINTER23	2023-12-31	

Table:
CentaraThe1 Account

CentaraThe1_no	Tier	Cen_Password	Cen_Point	Register_date	Promo_code
0038372584	Classic	jsjf882PP	847	2022-03-19	BIRTHDAY22
0075345887	Silver	ll00d8s	2234	2020-03-28	SUMMER20
0077635212	Classic	dkdijed8898	223	2022-04-30	WINTER2023
0078954324	Classic	ooppr334	965	2022-08-17	WINTER22
0087654876	Gold	33uyyt8	38553	2021-02-22	BIRTHDAY21
0088654677	Gold	3jmd88ssd	68805	2020-05-21	SUMMER20
0088798665	Gold	dddijd337	43992	2020-09-01	SUMMER20
0092746538	Classic	slkxapp	127	2020-08-05	SUMMER20
0098476340	Platinum Elite	smkceklm	878432	2020-06-22	WINTER20
0238366211	Classic	kdidjjd99	223	2023-08-11	BIRTHDAY23
0280288373	Silver	HYFw995	9675	2021-08-25	BIRTHDAY21
0293088373	Silver	skfjs00s7	6708	2020-04-22	WINTER20
0293713422	Silver	pprp8338	3455	2022-01-12	WINTER21
0777782714	Gold	sjsu2827	40093	2020-04-11	SUMMER20...
0800968765	Platinum Elite	skj88gs0	2083342	2016-04-14	SUMMER16
0809865878	Silver	osncjs9f0	9374	2023-01-01	SUMMER23
0900872523	Platinum Elite	skds883ko	7464974	2018-12-08	SUMMER18
0998372310	Classic	kdijj9783	234	2023-04-19	WINTER23
8754900864	Platinum Elite	99dj8sppep	8477322	2012-10-16	BIRTHDAY12
8798622345	Gold	djd99duus6	53434	2019-09-13	SUMMER19
9283736353	Silver	hus83632	8862	2021-03-21	BIRTHDAY22
9736293746	Gold	kkkuuop245	34566	2021-09-01	BIRTHDAY21
9778649900	Platinum Elite	mdkkdj9937	8005345	2015-12-16	BIRTHDAY15
9900765876	Gold	slknis88s0	38429	2020-04-11	BIRTHDAY20
9980967543	Silver	kskdud8hsl	9485	2020-02-03	BIRTHDAY20

Table: Customer

Cus_name	Citizen_ID	Email_address	Phone_number	Passport_no	CentaraThe1_no	Payment_ID	Birthdate
Annelise Paulus	1100492727999	Anneney@gmail.com	0856743326	0238863053	0098476340	00048869977555	1996-01-17
Anney Smithson	1200973517352	Ananney@hotmail.com	0908876342	39948852	0088798665	93826290784	1995-10-16
Anton Jubilar	5343090036782	Aniupo@gmail.com	0945579876	948575354	0280288373	03947282727383	1998-01-25
Beam Jeong	3309966251828	beamJL@hotmail.com	0768341631	C03002927	9900765876	484638993744	1998-01-19
Carlos Innugado	1809972535188	Carr657@gmail.com	0645436687	274759533	0293088373	020048047363454	1995-05-30
Chanyeol Richter	1100482639246	ChanYRK@gmail.com	0312678899	HULL	0092746538	0048832079686	1999-02-19
Georgee Papar	1200903615371	gogottor@gmail.com	0873443578	C03003805	9778649900	39748290584	1989-02-04
Georgette Schlumberg	1200905628361	Hittle@hotmail.com	0804327854	948572395	0900872523	92827293736463	1994-12-30
Gerald Robertson	1728075637599	grnalg@hotmail.com	0657885495	C03007568	8754900864	9383629373927	1999-05-21
Heinz Schloss	1728073618361	henntou@hotmail.com	0657894563	533827734	0077635212	928362839238	1993-01-13
Jaehyun Oblonski	1723840002947	Jaehyunlb@gmail.com	0548366740	C03009817	0087654876	9383628403	1996-11-09
Jaemin Weston	1182749386480	jamin01@hotmail.com	0808967756	948659534	0800968765	004838837475	1988-03-03
Janny Huizinga	1200901443526	Jannywr@gmail.com	0945489998	PA0940443	9283736353	083762539	1999-11-29
Jinnipa Suh	1100403837362	jinnilee@gmail.com	0345678995	9872642442	0088654677	393826392839273	1987-03-22
Jisung Olenqa	3101488261039	jissuugg@gmail.com	0536612326	C03005912	8798622345	746229273094736	1989-04-24
Johnny Smith	1100482638221	Jjhohny@hotmail.com	0643786542	C03098762	9980967543	5885847556505	2000-05-18
Juliette Brewer	1100498263919	ju154@hotmail.com	0678900745	34887321	0078954324	94857393744	1988-12-05
Mark Bowser	1809973622836	markmarker@hotmail...	0447688964	783947563	0998372310	03938485039	1987-04-11
Nichakul Park	1809907353827	nichak@hotmail.com	0868354683	XN0092736	0075345887	00484775939	1999-09-17

Table:
Reservation

Booking_no	Destination	Special_requests	Reservation_date	Total_num_of_customers	Cus_name	Citizen_ID
CTR0127432	Centara Ayutthaya	City tour package	2023-02-19	4	Jaehyun Oblonski	1723840002947
CTR0463245	Centara Grand Hotel Osaka	Room service	2021-02-24	2	Georgee Papar	1200903615371
CTR0953881	Malakhao Hotel managed by Centara	Extra towels	2019-12-20	4	Suzanna Grafton	1200903736183
CTR0983751	Centara Koh Chang Tropicana Resort	Beachfront dinner	2020-07-11	2	Gerald Robertson	1728075637599
CTR1160043	Centra by Centara Hotel Resort Jomtien	HULL	2021-01-27	4	Tim Warren	1100484630484
CTR1441854	Centra by Centara Hotel Mae Sot	Spa package	2023-01-12	5	Sidney Wesson	178236592834
CTR1468359	Centara Azure Hotel Pattaya	Nightclub access	2019-08-24	3	Jisung Olenqa	3101488261039
CTR2358476	Centara West Bay Hotel & Residences Doha	Cultural tour	2021-01-21	5	Anton Jubilar	534090036782
CTR2468513	Centara Grand Beach Resort & Villas Hua Hin	Golf package	2020-01-02	3	Jaemin Weston	1182749386480
CTR3186835	Centara Korat	Wi-Fi access	2022-12-16	1	Anney Smithson	1200973517352
CTR3996541	Centara Grand at Central Plaza Ladprao Ba...	Gym access	2019-04-22	3	Jinnipa Suh	1100403837362
CTR4273869	Centra by Centara Maris Resort Jomtien	Airport transfer	2020-11-22	2	Carlos Innugado	1809972535188
CTR5003476	Centara Ras Fushi Resort & Spa Maldives	Diving excursion	2021-09-27	5	Nichakul Park	1809907353827
CTR5339017	Centara Ao Nang Beach Resort & Spa Krabi	HULL	2023-03-07	4	Mark Bowser	1809973622836
CTR5775239	Centra by Centara Hotel Mae Sot	Complimentary breakf...	2023-12-05	5	Tring Robertson	1809902242071
CTR6359903	Centara Grand at Central Plaza Ladprao Ba...	Shopping voucher	2023-11-14	3	Beam Jeong	3309966251828
CTR6534921	Centara Villas Samui	Yoga retreat	2023-07-12	6	Chanyeol Richter	110482639246
CTR6735981	Centara Villas Samui	In-room massage	2023-07-17	6	Robert Smith	110463519377
CTR7549812	Centra by Centara Phu Pano Resort Krabi	Island hopping	2022-07-17	3	Anneise Paulus	1100492727999
CTR7601347	Centra by Centara Hotel Bangkok Phra Nak...	Late checkout	2021-01-23	2	Heinz Schloss	1728073618361
CTR7607241	Centara Reserve Samui	Private pool	2022-05-28	3	Johnny Smith	110482639221
CTR8865673	Centara Koh Chang Tropicana Resort	Breakfast in bed	2022-02-04	4	Janny Huizinga	1200901443526
CTR8945213	Centra By Centara Muscat Dunes Hotel	Desert safari	2023-05-29	5	William Browning	110472638299
CTR9162543	Centara Riverside Hotel Chiang Mai	Cooking class	2022-03-04	6	Georgette Schlumberg	1200905628361
CTR9176645	Centara Mirage Beach Resort Dubai	Early check-in	2020-08-05	5	Juliette Brewer	1100498263919

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	2022-11-17 08:30:00	Suvarnabhumi Airport	Sedan	กษ1234
	2021-11-29 18:15:00	Krabi International Airport	Limousine	ชช2626
	2020-01-04 10:45:00	Don Mueang International Airport	SUV	คจ5678
	2022-09-12 13:15:00	Phuket International Airport	Van	พพ9101
	2021-11-05 15:30:00	Chiang Mai International Airport	Limousine	งจ1212
	2021-10-21 17:45:00	Krabi International Airport	Sedan	ฉช1414
	2021-04-23 09:00:00	Suvarnabhumi Airport	Limousine	ทท2020
	2021-01-25 11:15:00	Don Mueang International Airport	Sedan	ชา2222
	2020-03-18 09:00:00	Suvarnabhumi Airport	SUV	บศ2121
	2023-05-31 11:15:00	Don Mueang International Airport	Van	ปส3434
	2021-11-18 13:45:00	Phuket International Airport	Limousine	พว5656
	2022-04-18 16:00:00	Chiang Mai International Airport	Sedan	กส7878
	2022-03-05 18:15:00	Krabi International Airport	SUV	มล9090
	2020-06-19 08:30:00	Suvarnabhumi Airport	Van	ขม1111
	2020-11-12 16:00:00	Chiang Mai International Airport	Van	ชว2525
	2019-10-11 10:45:00	Don Mueang International Airport	Limousine	ราช1212

Table: Booking	Cus_name	Citizen_ID	Plate_no
	Annelise Paulus	1100492727999	กษ1234
	Jaemin Weston	1182749386480	คจ5678
	Mark Bowser	1809973622836	พพ9101
	Heinz Schloss	1728073618361	ฉช1414
	Anney Smithson	1200973517352	ทท2020
	Anton Jubilar	5343090036782	ชา2222
	William Browning	1100472638299	ปส3434
	Georgette Schlumberg	1200905628361	มล9090
	Jisung Olenga	3101488261039	ขม1111
	Johnny Smith	1100482638221	ลช1414
	Gerald Robertson	1728075637599	วต1616

Database Query

Table 1:

Report: The booking numbers with not-null special requests and make reservations in 2022.																						
Objective	To display information on booking numbers with not-null special requests and make reservations in 2022, including booking number and special request.																					
SQL Command																						
<pre>SELECT r.Booking_no, r.Special_requests, r.Reservation_date AS 'Reservation date' FROM Reservation r WHERE Special_requests IS NOT NULL AND YEAR(r.Reservation_date) = 2022;</pre>																						
Query Result																						
<table border="1"> <thead> <tr> <th>Booking_no</th><th>Special_requests</th><th>Reservation date</th></tr> </thead> <tbody> <tr> <td>CTR3186835</td><td>Wi-Fi access</td><td>2022-12-16</td></tr> <tr> <td>CTR7549812</td><td>Island hopping</td><td>2022-07-17</td></tr> <tr> <td>CTR7607241</td><td>Private pool</td><td>2022-05-28</td></tr> <tr> <td>CTR8865673</td><td>Breakfast in bed</td><td>2022-02-04</td></tr> <tr> <td>CTR9162543</td><td>Cooking class</td><td>2022-03-04</td></tr> <tr> <td>NULL</td><td>NULL</td><td>NULL</td></tr> </tbody> </table>		Booking_no	Special_requests	Reservation date	CTR3186835	Wi-Fi access	2022-12-16	CTR7549812	Island hopping	2022-07-17	CTR7607241	Private pool	2022-05-28	CTR8865673	Breakfast in bed	2022-02-04	CTR9162543	Cooking class	2022-03-04	NULL	NULL	NULL
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NULL	NULL	NULL																				

Table 2:

Report: The customers who made reservations at Centara Villas Samui.							
Objective	To display information on customers who made reservations at Centara Villas Samui, including name and branch's name.						
SQL Command							
<pre>SELECT r.Cus_name AS Customer, c.Branch_name AS Branch FROM Reservation r JOIN Contain c ON r.Booking_no = c.Booking_no WHERE c.Branch_name = 'Centara Villas Samui';</pre>							
Query Result							
<table border="1"> <thead> <tr> <th>Customer</th><th>Branch</th></tr> </thead> <tbody> <tr> <td>Chanyeol Richter</td><td>Centara Villas Samui</td></tr> <tr> <td>Robert Smith</td><td>Centara Villas Samui</td></tr> </tbody> </table>		Customer	Branch	Chanyeol Richter	Centara Villas Samui	Robert Smith	Centara Villas Samui
Customer	Branch						
Chanyeol Richter	Centara Villas Samui						
Robert Smith	Centara Villas Samui						

Table 3:

Report: The payment ID and amount for payments where the amount to be paid is greater than 10000.																													
Objective	To display information on payment ID and amount for payments where the amount of cost is greater than 10000, including payment ID and amount to be paid.																												
SQL Command																													
<pre>SELECT Payment_ID, Amount FROM Payment WHERE Amount > 10000 ORDER BY Amount desc;</pre>																													
Query Result																													
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Report: The list of customers with centaraThe1 numbers.																																																					
Objective	To display information on customers with centaraThe1 numbers, and the result sorted by ascending alphabetical order of customers' names.																																																				
SQL Command																																																					
<pre>SELECT m.Cus_Name AS Customer, m.CentaraThe1_no AS 'CentaraThe1 number' FROM Make m ORDER BY m.Cus_Name ASC;</pre>																																																					
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Table 5:

Report: The list of Payment ID, Card holder's name, and Expiry date of card.																																																	
Objective	To display information on Payment ID, Card holder's name, and Expiry date of card, and sort the result by expiry date in ascending order.																																																
SQL Command																																																	
<pre>SELECT c.Payment_ID, c.Card_holder_name AS 'Cardholder name', c.Expiry_date AS 'Expiry date' FROM Card c ORDER BY Expiry_date ASC;</pre>																																																	
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Table 6:

Report: The list of customers' names that start with 'J' and their airport transfer cars' plate numbers.									
Objective	To display information on customers' names that start with 'J' and their airport transfer cars' plate numbers, including names and plate numbers, and sort the result by the customers' name.								
SQL Command									
<pre>SELECT Cus_name AS Customer, Plate_no FROM Booking WHERE Cus_name LIKE 'J%' ORDER BY Cus_name ASC;</pre>									
Query Result									
<table border="1"> <thead> <tr> <th>Customer</th><th>Plate_no</th></tr> </thead> <tbody> <tr> <td>Jaemin Weston</td><td>គោ5678</td></tr> <tr> <td>Jisung Olenga</td><td>ខោ1111</td></tr> <tr> <td>Johnny Smith</td><td>លោ1414</td></tr> </tbody> </table>		Customer	Plate_no	Jaemin Weston	គោ5678	Jisung Olenga	ខោ1111	Johnny Smith	លោ1414
Customer	Plate_no								
Jaemin Weston	គោ5678								
Jisung Olenga	ខោ1111								
Johnny Smith	លោ1414								

Table 7:

Report: The list of customers who reserved rooms on the 7th floor.																
Objective	To display information on customers who reserved rooms on the 7th floor at each branch, including customers' names, branch's names and room number															
SQL Command																
<pre>SELECT r.Cus_name AS Customer, c.Branch_name, c.Room_no AS Room FROM Reservation r JOIN Contain c ON r.Booking_no = c.Booking_no WHERE c.Room_no LIKE '7%' ORDER BY r.Cus_name ASC;</pre>																
Query Result																
<table border="1"> <thead> <tr> <th>Customer</th><th>Branch_name</th><th>Room</th></tr> </thead> <tbody> <tr> <td>Anton Jubilar</td><td>Centara West Bay Hotel & Residences Doha</td><td>708</td></tr> <tr> <td>Gerald Robertson</td><td>Centara Koh Chang Tropicana Resort</td><td>704</td></tr> <tr> <td>Heinz Schloss</td><td>Centra by Centara Hotel Bangkok Phra Nakhon</td><td>702</td></tr> <tr> <td>Suzanna Grafton</td><td>Maikhao Hotel managed by Centara</td><td>710</td></tr> </tbody> </table>		Customer	Branch_name	Room	Anton Jubilar	Centara West Bay Hotel & Residences Doha	708	Gerald Robertson	Centara Koh Chang Tropicana Resort	704	Heinz Schloss	Centra by Centara Hotel Bangkok Phra Nakhon	702	Suzanna Grafton	Maikhao Hotel managed by Centara	710
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Heinz Schloss	Centra by Centara Hotel Bangkok Phra Nakhon	702														
Suzanna Grafton	Maikhao Hotel managed by Centara	710														

Table 8:

Report: The number of rooms that have a City View in each branch.			
Objective	To display information on the number of rooms that have a City View.		
SQL Command			
<pre>SELECT COUNT(*) AS 'City View Room Count' FROM Room WHERE Scenery LIKE '%City view%';</pre>			
Query Result			
<table border="1"> <thead> <tr> <th>City View Room Count</th></tr> </thead> <tbody> <tr> <td>40</td></tr> </tbody> </table>		City View Room Count	40
City View Room Count			
40			

Table 9:

Report: The list of room numbers that have the Pool Ocean view in their scenery.				
Objective	To display information on room numbers that have the Pool Ocean view, including room number, price and its scenery.			
SQL Command				
<pre>SELECT Room_no AS Room, Scenery, Price FROM Room WHERE Scenery LIKE '%Pool%' ORDER BY Price DESC;</pre>				
Query Result				
Room	Scenery	Price		
1208	Pool Ocean view	15500.00		
1207	Pool Ocean view	14300.00		
1108	Pool Ocean view	14000.00		
908	Pool Ocean view	13900.00		
808	Pool Ocean view	13850.00		
708	Pool Ocean view	13800.00		
608	Pool Ocean view	13750.00		
508	Pool Ocean view	13700.00		
408	Pool Ocean view	13600.00		
208	Pool Ocean view	13550.00		
108	Pool Ocean view	13500.00		
308	Pool Ocean view	13500.00		
1107	Pool Ocean view	13200.00		
907	Pool Ocean view	13150.00		
807	Pool Ocean view	13100.00		
407	Pool Ocean view	13000.00		
707	Pool Ocean view	13000.00		
607	Pool Ocean view	12950.00		
307	Pool Ocean view	12910.00		
107	Pool Ocean view	12900.00		
507	Pool Ocean view	12900.00		
207	Pool Ocean view	12800.00		
506	Pool Ocean view	9600.00		
406	Pool Ocean view	9200.00		
1205	Pool Ocean view	8400.00		
1105	Pool Ocean view	8350.00		
805	Pool Ocean view	8250.00		

Table 10:

Report: The list of customers who made reservations in January.						
Objective	To display information on customers who made reservations in January, including their citizen ID, name, destination, and reservation date					
SQL Command						
<pre>SELECT r.Citizen_ID, r.Cus_name AS Customer, r.Destination, r.Reservation_date FROM Reservation r LEFT JOIN Contain C ON R.Booking_no = C.Booking_no WHERE MONTH(r.Reservation_date) = 1;</pre>						
Query Result						
Citizen_ID	Customer	Destination	Reservtive_date			
1100484630484	Tim Warren	Centra by Centara Maris Resort Jomtien	2021-01-27			
1788236592834	Sidney Wesson	Centra by Centara Hotel Mae Sot	2023-01-12			
5343090036782	Anton Jubilar	Centara West Bay Hotel & Residences Doha	2021-01-21			
1182749386480	Jaemin Weston	Centara Grand Beach Resort & Villas Hua Hin	2020-01-02			
1728073618361	Heinz Schloss	Centra by Centara Hotel Bangkok Phra Nakhon	2021-01-23			

Table 11:

Report: The list of customers who make payments by wechat pay.																																																	
Objective	To display information on customers who make payments by wechat pay, result in ascending alphabetical order of customer names, including names, booking numbers, payment ids, and wechat ids.																																																
SQL Command																																																	
<pre>SELECT r.Cus_name AS Customer, r.booking_no, p.payment_id, w.wechat_id FROM Reservation r JOIN Payment p ON r.booking_no = p.booking_no JOIN WechatPay w ON p.payment_id = w.payment_id ORDER BY Customer ASC;</pre>																																																	
Query Result																																																	
<table border="1"> <thead> <tr> <th>Customer</th><th>booking_no</th><th>payment_id</th><th>wechat_id</th></tr> </thead> <tbody> <tr><td>Anney Smithson</td><td>CTR3186835</td><td>93826290784</td><td>WC45678901</td></tr> <tr><td>Georgee Papar</td><td>CTR0463245</td><td>39748290584</td><td>WC34567890</td></tr> <tr><td>Heinz Schloss</td><td>CTR7601347</td><td>928362839238</td><td>WC34567890</td></tr> <tr><td>Jaehyun Oblonski</td><td>CTR0127432</td><td>9383628403</td><td>WC67890123</td></tr> <tr><td>Janny Huizinga</td><td>CTR8865673</td><td>083762539</td><td>WC23456789</td></tr> <tr><td>Juliette Brewer</td><td>CTR9176645</td><td>94857393744</td><td>WC56789012</td></tr> <tr><td>Mark Bowser</td><td>CTR5339017</td><td>03938485039</td><td>WC12345678</td></tr> <tr><td>Nichakul Park</td><td>CTR5003476</td><td>00484775939</td><td>WC45678901</td></tr> <tr><td>Sidney Wesson</td><td>CTR1441854</td><td>93837203948</td><td>WC23456789</td></tr> <tr><td>Suzanna Grafton</td><td>CTR0953881</td><td>03938095853</td><td>WC45678901</td></tr> <tr><td>Tring Robertson</td><td>CTR5775239</td><td>8827169208</td><td>WC12345678</td></tr> </tbody> </table>		Customer	booking_no	payment_id	wechat_id	Anney Smithson	CTR3186835	93826290784	WC45678901	Georgee Papar	CTR0463245	39748290584	WC34567890	Heinz Schloss	CTR7601347	928362839238	WC34567890	Jaehyun Oblonski	CTR0127432	9383628403	WC67890123	Janny Huizinga	CTR8865673	083762539	WC23456789	Juliette Brewer	CTR9176645	94857393744	WC56789012	Mark Bowser	CTR5339017	03938485039	WC12345678	Nichakul Park	CTR5003476	00484775939	WC45678901	Sidney Wesson	CTR1441854	93837203948	WC23456789	Suzanna Grafton	CTR0953881	03938095853	WC45678901	Tring Robertson	CTR5775239	8827169208	WC12345678
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Tring Robertson	CTR5775239	8827169208	WC12345678																																														

Table 12:

Report: The list of customers who have CentaraThe1 accounts with tier 'gold'.																	
Objective	To display information on customers who have CentaraThe1 accounts with tier 'gold', including Centara The1 number and name, and result in ascending alphabetical order of customer names..																
SQL Command																	
<pre>SELECT c.CentaraThe1_no AS 'CentaraThe1 Number' , c.cus_name AS Customer FROM Customer c WHERE c.CentaraThe1_no IN (SELECT cen.CentaraThe1_no FROM CentaraThe1Account cen WHERE cen.tier LIKE '%Gold%') ORDER BY Customer ASC;</pre>																	
Query Result																	
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Table 13:

Report: The list of customers and age of customers who are older than 30.																	
Objective	To display information on customers and age of customers who are older than 30 in case of assuming the amount of customers in their working age, including name and age, and sort the result by age in descending order.																
SQL Command																	
<pre>SELECT cus_name AS Customer, YEAR(curdate())-YEAR(birthdate) AS Age FROM Customer WHERE YEAR(curdate())-YEAR(birthdate) > 30 ORDER BY Age desc;</pre>																	
Query Result																	
<table border="1"> <thead> <tr> <th>Customer</th><th>Age</th></tr> </thead> <tbody> <tr><td>Jinnipa Suh</td><td>36</td></tr> <tr><td>Mark Bowser</td><td>36</td></tr> <tr><td>Jaemin Weston</td><td>35</td></tr> <tr><td>Juliette Brewer</td><td>35</td></tr> <tr><td>Georgee Papar</td><td>34</td></tr> <tr><td>Jisung Olenga</td><td>34</td></tr> <tr><td>Tring Robertson</td><td>34</td></tr> </tbody> </table>		Customer	Age	Jinnipa Suh	36	Mark Bowser	36	Jaemin Weston	35	Juliette Brewer	35	Georgee Papar	34	Jisung Olenga	34	Tring Robertson	34
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Mark Bowser	36																
Jaemin Weston	35																
Juliette Brewer	35																
Georgee Papar	34																
Jisung Olenga	34																
Tring Robertson	34																

Table 14:

Report: The list of customers who reserve a room overseas.				
Objective	To display information on customers who reserve a room overseas, including names, their destination, and their destination's country.			
SQL Command				
<pre>SELECT r.cus_name AS Customer, r.Destination, b.branch_location FROM Reservation r JOIN Branch b ON r.Destination = b.branch_name WHERE b.branch_location NOT LIKE '%Thailand%';</pre>				
Query Result				
Customer	Destination	branch_location		
Georgee Papar	Centara Grand Hotel Osaka	Japan		
Anton Jubilar	Centara West Bay Hotel & Residences Doha	Qatar		
Nichakul Park	Centara Ras Fushi Resort & Spa Maldives	Republic of Maldives		
William Browning	Centra By Centara Muscat Dunes Hotel	Oman		
Juliette Brewer	Centara Mirage Beach Resort Dubai	UAE		

Table 15:

Report: The list of customers whose ages are older than the average age of customers who are born in december.																												
Objective	To display information on customers whose ages are older than the average age of customers who are born in December in case of creating marketing, including names, their birth date, their ages.																											
SQL Command																												
<pre>SELECT cus_name AS Customer, birthdate, YEAR(curdate())-YEAR(birthdate) AS Age FROM Customer WHERE YEAR(curdate())-YEAR(birthdate) > (SELECT AVG(YEAR(curdate())-YEAR(birthdate)) FROM Customer WHERE MONTH(birthdate) = 12) ORDER BY Age desc;</pre>																												
Query Result																												
<table border="1"> <thead> <tr> <th>Customer</th><th>birthdate</th><th>Age</th></tr> </thead> <tbody> <tr> <td>Jinnipa Suh</td><td>1987-03-22</td><td>36</td></tr> <tr> <td>Mark Bowser</td><td>1987-04-11</td><td>36</td></tr> <tr> <td>Jaemin Weston</td><td>1988-03-03</td><td>35</td></tr> <tr> <td>Juliette Brewer</td><td>1988-12-05</td><td>35</td></tr> <tr> <td>Georgee Papar</td><td>1989-02-04</td><td>34</td></tr> <tr> <td>Jisung Olenga</td><td>1989-04-24</td><td>34</td></tr> <tr> <td>Tring Robertson</td><td>1989-03-09</td><td>34</td></tr> <tr> <td>Heinz Schloss</td><td>1993-01-13</td><td>30</td></tr> </tbody> </table>		Customer	birthdate	Age	Jinnipa Suh	1987-03-22	36	Mark Bowser	1987-04-11	36	Jaemin Weston	1988-03-03	35	Juliette Brewer	1988-12-05	35	Georgee Papar	1989-02-04	34	Jisung Olenga	1989-04-24	34	Tring Robertson	1989-03-09	34	Heinz Schloss	1993-01-13	30
Customer	birthdate	Age																										
Jinnipa Suh	1987-03-22	36																										
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Tring Robertson	1989-03-09	34																										
Heinz Schloss	1993-01-13	30																										

Table 16:

Report: The average age of customers who are born in December.			
Objective	To display information on the average age of customers who are born in December in case of creating marketing.		
SQL Command			
<pre>SELECT AVG(YEAR(curdate()) - YEAR(birthdate)) As AvgAge FROM Customer WHERE MONTH(birthdate) = 12;</pre>			
Query Result			
<table border="1"> <thead> <tr> <th>AvgAge</th> </tr> </thead> <tbody> <tr> <td>29.3333</td> </tr> </tbody> </table>		AvgAge	29.3333
AvgAge			
29.3333			

Table 17:

Report: The list of customers who have passports.																																																	
Objective	To display information on customers who have passports, including names and passport numbers, the result is sorted by ascending alphabetical order of customers' names.																																																
SQL Command																																																	
<pre>SELECT cus_name AS Customer, passport_no FROM Customer WHERE passport_no IS NOT NULL ORDER BY Customer ASC;</pre>																																																	
Query Result																																																	
<table border="1"> <thead> <tr> <th>Customer</th><th>passport_no</th></tr> </thead> <tbody> <tr><td>Annelise Paulus</td><td>023863053</td></tr> <tr><td>Anney Smithson</td><td>39948852</td></tr> <tr><td>Anton Jubilar</td><td>948575354</td></tr> <tr><td>Beam Jeong</td><td>C03002927</td></tr> <tr><td>Carlos Innugado</td><td>274759533</td></tr> <tr><td>Georgee Papar</td><td>C03003805</td></tr> <tr><td>Georgette Schlumberg</td><td>948572395</td></tr> <tr><td>Gerald Robertson</td><td>C03007568</td></tr> <tr><td>Heinz Schloss</td><td>533827734</td></tr> <tr><td>Jaehyun Oblonski</td><td>C03009817</td></tr> <tr><td>Jaemin Weston</td><td>948659534</td></tr> <tr><td>Janny Huizinga</td><td>PA0940443</td></tr> <tr><td>Jinnipa Suh</td><td>987264242</td></tr> <tr><td>Jisung Olenga</td><td>C03005912</td></tr> <tr><td>Johnny Smith</td><td>C03098762</td></tr> <tr><td>Juliette Brewer</td><td>34887321</td></tr> <tr><td>Mark Bowser</td><td>783947563</td></tr> <tr><td>Nichakul Park</td><td>XN0092736</td></tr> <tr><td>Robert Smith</td><td>XN0093744</td></tr> <tr><td>Sidney Wesson</td><td>C03028735</td></tr> <tr><td>Suzanna Grafton</td><td>098263543</td></tr> <tr><td>Tring Robertson</td><td>C03008905</td></tr> <tr><td>William Browning</td><td>475858363</td></tr> </tbody> </table>		Customer	passport_no	Annelise Paulus	023863053	Anney Smithson	39948852	Anton Jubilar	948575354	Beam Jeong	C03002927	Carlos Innugado	274759533	Georgee Papar	C03003805	Georgette Schlumberg	948572395	Gerald Robertson	C03007568	Heinz Schloss	533827734	Jaehyun Oblonski	C03009817	Jaemin Weston	948659534	Janny Huizinga	PA0940443	Jinnipa Suh	987264242	Jisung Olenga	C03005912	Johnny Smith	C03098762	Juliette Brewer	34887321	Mark Bowser	783947563	Nichakul Park	XN0092736	Robert Smith	XN0093744	Sidney Wesson	C03028735	Suzanna Grafton	098263543	Tring Robertson	C03008905	William Browning	475858363
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William Browning	475858363																																																

Table 18:

Report: A view named ‘vw_PlatinumCustomers’ to store a list of customers whose tier is platinum.																															
Objective	To create and display a view, named ‘vw_PlatinumCustomers’ to store a list of customers whose tier is platinum, including names, citizen IDs, centara thel numbers, email addresses and payment IDs, and also sorted by names in ascending alphabetical order.																														
SQL Command																															
<pre> DROP VIEW IF EXISTS vw_PlatinumCustomers; CREATE VIEW vw_PlatinumCustomers AS (SELECT c.cus_name, c.Citizen_ID, c.CentaraThe1_no, c.Email_address, c.Payment_ID FROM Customer c WHERE c.CentaraThe1_no IN (SELECT cen.CentaraThe1_no FROM CentaraThe1Account cen WHERE cen.tier LIKE '%Platinum%')) ORDER BY cus_name ASC; SELECT * FROM vw_PlatinumCustomers; </pre>																															
Query Result																															
<table border="1"> <thead> <tr> <th>cus_name</th><th>Citizen_ID</th><th>CentaraThe1_no</th><th>Email_address</th><th>Payment_ID</th></tr> </thead> <tbody> <tr> <td>Annelise Paulus</td><td>1100492727999</td><td>0098476340</td><td>Annenne@gmail.com</td><td>00048869977555</td></tr> <tr> <td>Georgee Papar</td><td>1200903615371</td><td>9778649900</td><td>gogottor@gmail.com</td><td>39748290584</td></tr> <tr> <td>Georgette Schlumberg</td><td>1200905628361</td><td>0900872523</td><td>Hittle@hotmail.comr</td><td>92827293736463</td></tr> <tr> <td>Gerald Robertson</td><td>1728075637599</td><td>8754900864</td><td>grnalg@hotmail.com</td><td>9383629373927</td></tr> <tr> <td>Jaemin Weston</td><td>1182749386480</td><td>0800968765</td><td>jamin01@hotmail.com</td><td>004838837475</td></tr> </tbody> </table>		cus_name	Citizen_ID	CentaraThe1_no	Email_address	Payment_ID	Annelise Paulus	1100492727999	0098476340	Annenne@gmail.com	00048869977555	Georgee Papar	1200903615371	9778649900	gogottor@gmail.com	39748290584	Georgette Schlumberg	1200905628361	0900872523	Hittle@hotmail.comr	92827293736463	Gerald Robertson	1728075637599	8754900864	grnalg@hotmail.com	9383629373927	Jaemin Weston	1182749386480	0800968765	jamin01@hotmail.com	004838837475
cus_name	Citizen_ID	CentaraThe1_no	Email_address	Payment_ID																											
Annelise Paulus	1100492727999	0098476340	Annenne@gmail.com	00048869977555																											
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Georgette Schlumberg	1200905628361	0900872523	Hittle@hotmail.comr	92827293736463																											
Gerald Robertson	1728075637599	8754900864	grnalg@hotmail.com	9383629373927																											
Jaemin Weston	1182749386480	0800968765	jamin01@hotmail.com	004838837475																											

Table 19:

Report: The list of 10 youngest customers.																							
Objective	To display information on 10 youngest customers, including names and ages, and sorted by age from youngest to greatest.																						
SQL Command																							
<pre>SELECT cus_name AS Customer, YEAR(curdate())-YEAR(birthdate) AS Age FROM Customer ORDER BY AGE ASC LIMIT 10;</pre>																							
Query Result																							
<table border="1"> <thead> <tr> <th>Customer</th><th>Age</th></tr> </thead> <tbody> <tr><td>Johnny Smith</td><td>23</td></tr> <tr><td>Tim Warren</td><td>24</td></tr> <tr><td>Robert Smith</td><td>24</td></tr> <tr><td>Gerald Robertson</td><td>24</td></tr> <tr><td>Suzanna Grafton</td><td>24</td></tr> <tr><td>Janny Huizinga</td><td>24</td></tr> <tr><td>Chanyeol Richter</td><td>24</td></tr> <tr><td>Nichakul Park</td><td>24</td></tr> <tr><td>Beam Jeong</td><td>25</td></tr> <tr><td>Anton Jubilar</td><td>25</td></tr> </tbody> </table>		Customer	Age	Johnny Smith	23	Tim Warren	24	Robert Smith	24	Gerald Robertson	24	Suzanna Grafton	24	Janny Huizinga	24	Chanyeol Richter	24	Nichakul Park	24	Beam Jeong	25	Anton Jubilar	25
Customer	Age																						
Johnny Smith	23																						
Tim Warren	24																						
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Janny Huizinga	24																						
Chanyeol Richter	24																						
Nichakul Park	24																						
Beam Jeong	25																						
Anton Jubilar	25																						

Table 20:

Report: The list of the customers who make a reservation that number of customers more than 3.																															
Objective	To display information on customers who make a reservation that number of customers more than 3, including names and number of customers.																														
SQL Command																															
<pre>SELECT cus_name AS Customer, Total_num_of_customers AS 'NO. of customers' FROM Reservation WHERE Total_num_of_customers > 3;</pre>																															
Query Result																															
<table border="1"> <thead> <tr> <th>Customer</th><th>NO. of customers</th></tr> </thead> <tbody> <tr><td>Jaehyun Oblonski</td><td>4</td></tr> <tr><td>Suzanna Grafton</td><td>4</td></tr> <tr><td>Tim Warren</td><td>4</td></tr> <tr><td>Sidney Wesson</td><td>5</td></tr> <tr><td>Anton Jubilar</td><td>5</td></tr> <tr><td>Nichakul Park</td><td>5</td></tr> <tr><td>Mark Bowser</td><td>4</td></tr> <tr><td>Tring Robertson</td><td>5</td></tr> <tr><td>Chanyeol Richter</td><td>6</td></tr> <tr><td>Robert Smith</td><td>6</td></tr> <tr><td>Janny Huizinga</td><td>4</td></tr> <tr><td>William Browning</td><td>5</td></tr> <tr><td>Georgette Schlumberg</td><td>6</td></tr> <tr><td>Juliette Brewer</td><td>5</td></tr> </tbody> </table>		Customer	NO. of customers	Jaehyun Oblonski	4	Suzanna Grafton	4	Tim Warren	4	Sidney Wesson	5	Anton Jubilar	5	Nichakul Park	5	Mark Bowser	4	Tring Robertson	5	Chanyeol Richter	6	Robert Smith	6	Janny Huizinga	4	William Browning	5	Georgette Schlumberg	6	Juliette Brewer	5
Customer	NO. of customers																														
Jaehyun Oblonski	4																														
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Robert Smith	6																														
Janny Huizinga	4																														
William Browning	5																														
Georgette Schlumberg	6																														
Juliette Brewer	5																														

Table 21:

Report: The list of customers, destinations, total number of customers, and booking numbers.								
Objective	To display information on customers, destinations, total number of customers, and booking numbers. Sort the results by customer name.							
SQL Command								
<pre>SELECT cus_name AS Name, destination AS Destination, total_num_of_customers AS 'Total number of customers', booking_no AS 'Booking number' FROM reservation ORDER BY cus_name;</pre>								
Query Result								
Name	Destination	Total number of customers	Booking number					
Annelise Paulus	Centara by Centara Phu Pano Resort Krabi	3	CTR7549812					
Anney Smithson	Centara Korat	1	CTR3186835					
Anton Jubilar	Centara West Bay Hotel & Residences Doha	5	CTR2358476					
Beam Jeong	Centara Grand at Central Plaza Ladprao Bangkok	3	CTR6359903					
Carlos Innugado	Centra by Centara Maris Resort Jomtien	2	CTR4273859					
Chanyeol Richter	Centara Villas Samui	6	CTR6534921					
Georgee Papar	Centara Grand Hotel Osaka	2	CTR0463245					
Georgette Schlumberg	Centara Riverside Hotel Chiang Mai	6	CTR9162543					
Gerald Robertson	Centara Koh Chang Tropicana Resort	2	CTR0983751					
Heinz Schloss	Centra by Centara Hotel Bangkok Phra Nakhon	2	CTR7601347					
Jaehyun Oblonski	Centara Ayutthaya	4	CTR0127432					
Jaemin Weston	Centara Grand Beach Resort & Villas Hua Hin	3	CTR2468513					
Janny Huizinga	Centara Koh Chang Tropicana Resort	4	CTR8865673					
Jinnipa Suh	Centara Grand at Central Plaza Ladprao Bangkok	3	CTR3996541					
Jisung Olenga	Centara Azure Hotel Pattaya	3	CTR1468359					
Johnny Smith	Centara Reserve Samui	3	CTR7607241					
Juliette Brewer	Centara Mirage Beach Resort Dubai	5	CTR9176645					
Mark Bowser	Centara Ao Nang Beach Resort & Spa Krabi	4	CTR5339017					
Nichakul Park	Centara Ras Fushi Resort & Spa Maldives	5	CTR5003476					
Robert Smith	Centara Villas Samui	6	CTR6735981					
Sidney Wesson	Centra by Centara Hotel Mae Sot	5	CTR1441854					
Suzanna Grafton	Maikhao Hotel managed by Centara	4	CTR0953881					
Tim Warren	Centra by Centara Maris Resort Jomtien	4	CTR1160043					
Tring Robertson	Centra by Centara Hotel Mae Sot	5	CTR5775239					
William Browning	Centra By Centara Muscat Dunes Hotel	5	CTR8945213					

Table 22:

Report: The list of top 10 spending customer				
Objective	To display information on the top 10 spending customer names and their tier and amount. The result must contain three columns: Name, Tier, and Amount, sorted by the amount from the highest to the lowest.			
SQL Command				
<pre>SELECT c.cus_name as Name, cen.tier as Tier, p.amount as Amount FROM customer c JOIN payment p on c.Payment_ID = p.Payment_ID LEFT JOIN CentaraThe1Account cen on c.CentaraThe1_no = cen.CentaraThe1_no ORDER BY Amount desc LIMIT 10;</pre>				
Query Result				
Name	Tier	Amount		
Georgette Schlumberg	Platinum Elite	15800.00		
Chanyeol Richter	Classic	15700.00		
Juliette Brewer	Classic	15500.25		
Nichakul Park	Silver	15350.00		
Anton Jubilar	Silver	14800.00		
William Browning	Classic	14560.50		
Robert Smith	Gold	13500.00		
Sidney Wesson	Classic	13500.00		
Tring Robertson	Gold	13367.50		
Jaemin Weston	Platinum Elite	12900.00		

Table 23:

Report: The list of all customers who have special requests for early check-in or late checkout.										
Objective	To display information on the list of all customers who have special requests for early check-in or late checkout. The result must have three columns: Name, Room number, and Special requests.									
SQL Command										
<pre>SELECT r.cus_name as Name, con.room_no as 'Room number', r.Special_requests as 'Special requests' FROM reservation r LEFT JOIN Contain con on r.booking_no = con.booking_no WHERE Special_requests = 'Early check-in' or Special_requests = 'Late checkout';</pre>										
Query Result										
<table border="1"> <thead> <tr> <th>Name</th> <th>Room number</th> <th>Special requests</th> </tr> </thead> <tbody> <tr> <td>Heinz Schloss</td> <td>702</td> <td>Late checkout</td> </tr> <tr> <td>Juliette Brewer</td> <td>1207</td> <td>Early check-in</td> </tr> </tbody> </table>		Name	Room number	Special requests	Heinz Schloss	702	Late checkout	Juliette Brewer	1207	Early check-in
Name	Room number	Special requests								
Heinz Schloss	702	Late checkout								
Juliette Brewer	1207	Early check-in								

Table 24:

Report: To list the number of customers in each branch.																																											
Objective	To display information on the number of customers in each branch. Sort the results by total number of customers from the highest to the lowest.																																										
SQL Command																																											
<pre>SELECT con.Branch_name as Branch, sum(r.total_num_of_customers) as 'Total number of customers' FROM contain con LEFT JOIN reservation r on r.booking_no = con.booking_no GROUP BY con.Branch_name ORDER BY sum(r.total_num_of_customers) desc;</pre>																																											
Query Result																																											
<table border="1"> <thead> <tr> <th>Branch</th><th>Total number of custom...</th></tr> </thead> <tbody> <tr><td>Centara Villas Samui</td><td>12</td></tr> <tr><td>Centra by Centara Hotel Mae Sot</td><td>10</td></tr> <tr><td>Centara Grand at Central Plaza Ladprao Bangkok</td><td>6</td></tr> <tr><td>Centara Koh Chang Tropicana Resort</td><td>6</td></tr> <tr><td>Centara Riverside Hotel Chiang Mai</td><td>6</td></tr> <tr><td>Centra by Centara Maris Resort Jomtien</td><td>6</td></tr> <tr><td>Centara Mirage Beach Resort Dubai</td><td>5</td></tr> <tr><td>Centara Ras Fushi Resort & Spa Maldives</td><td>5</td></tr> <tr><td>Centara West Bay Hotel & Residences Doha</td><td>5</td></tr> <tr><td>Centra By Centara Muscat Dunes Hotel</td><td>5</td></tr> <tr><td>Centara Ao Nang Beach Resort & Spa Krabi</td><td>4</td></tr> <tr><td>Centara Ayutthaya</td><td>4</td></tr> <tr><td>Maikhao Hotel managed by Centara</td><td>4</td></tr> <tr><td>Centara Azure Hotel Pattaya</td><td>3</td></tr> <tr><td>Centara Grand Beach Resort & Villas Hua Hin</td><td>3</td></tr> <tr><td>Centara Reserve Samui</td><td>3</td></tr> <tr><td>Centra by Centara Phu Pano Resort Krabi</td><td>3</td></tr> <tr><td>Centara Grand Hotel Osaka</td><td>2</td></tr> <tr><td>Centra by Centara Hotel Bangkok Phra Nakhon</td><td>2</td></tr> <tr><td>Centara Korat</td><td>1</td></tr> </tbody> </table>		Branch	Total number of custom...	Centara Villas Samui	12	Centra by Centara Hotel Mae Sot	10	Centara Grand at Central Plaza Ladprao Bangkok	6	Centara Koh Chang Tropicana Resort	6	Centara Riverside Hotel Chiang Mai	6	Centra by Centara Maris Resort Jomtien	6	Centara Mirage Beach Resort Dubai	5	Centara Ras Fushi Resort & Spa Maldives	5	Centara West Bay Hotel & Residences Doha	5	Centra By Centara Muscat Dunes Hotel	5	Centara Ao Nang Beach Resort & Spa Krabi	4	Centara Ayutthaya	4	Maikhao Hotel managed by Centara	4	Centara Azure Hotel Pattaya	3	Centara Grand Beach Resort & Villas Hua Hin	3	Centara Reserve Samui	3	Centra by Centara Phu Pano Resort Krabi	3	Centara Grand Hotel Osaka	2	Centra by Centara Hotel Bangkok Phra Nakhon	2	Centara Korat	1
Branch	Total number of custom...																																										
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Centara Grand Hotel Osaka	2																																										
Centra by Centara Hotel Bangkok Phra Nakhon	2																																										
Centara Korat	1																																										

Table 25:

Report: The average age of customers.			
Objective	To display information on the average age of the customers. The result must have only one column:Average age of customer.		
SQL Command			
<pre>SELECT round(avg((year(curdate())-year(Birthdate)))) as "Average age of customer" FROM customer;</pre>			
Query Result			
<table border="1"> <thead> <tr> <th>Average age of customer</th> </tr> </thead> <tbody> <tr> <td>28</td> </tr> </tbody> </table>		Average age of customer	28
Average age of customer			
28			

Table 26:

Report: The list of customers who have made reservations in Krabi, Thailand.							
Objective	To display information on the names of customers who have made reservations in Krabi, Thailand. The result must have two columns: name and destination						
SQL Command							
<pre>select Cus_name as Name, destination as destination from Reservation where destination like '%Krabi%';</pre>							
Query Result							
<table border="1"> <thead> <tr> <th>Name</th> <th>destination</th> </tr> </thead> <tbody> <tr> <td>Mark Bowser</td> <td>Centara Ao Nang Beach Resort & Spa Krabi</td> </tr> <tr> <td>Annelise Paulus</td> <td>Centra by Centara Phu Pano Resort Krabi</td> </tr> </tbody> </table>		Name	destination	Mark Bowser	Centara Ao Nang Beach Resort & Spa Krabi	Annelise Paulus	Centra by Centara Phu Pano Resort Krabi
Name	destination						
Mark Bowser	Centara Ao Nang Beach Resort & Spa Krabi						
Annelise Paulus	Centra by Centara Phu Pano Resort Krabi						

Table 27:

Report: The list of customers who have amounts to be paid between 2000 and 9000.																																					
Objective	To display information on customers who have amounts to be paid between 2000 and 9000. The result must have three columns: Payment_ID, Name, and Amount, sorted by the amount from greatest to least.																																				
SQL Command																																					
<pre>SELECT c.Payment_ID as 'Payment ID', c.cus_name as Name, p.amount as Amount FROM customer c JOIN payment p on c.Payment_ID = p.Payment_ID WHERE (p.amount between 2000 and 9000) ORDER BY Amount desc;</pre>																																					
Query Result																																					
<table border="1"> <thead> <tr> <th>Payment ID</th> <th>Name</th> <th>Amount</th> </tr> </thead> <tbody> <tr><td>484638993744</td><td>Beam Jeong</td><td>9000.00</td></tr> <tr><td>393826392839273</td><td>Jinnipa Suh</td><td>7760.50</td></tr> <tr><td>03938095853</td><td>Suzanna Grafton</td><td>7680.50</td></tr> <tr><td>5885847556505</td><td>Johnny Smith</td><td>7650.00</td></tr> <tr><td>38470048656</td><td>Tim Warren</td><td>5580.50</td></tr> <tr><td>083762539</td><td>Janny Huizinga</td><td>5560.35</td></tr> <tr><td>746229273094736</td><td>Jisung Olenga</td><td>4743.00</td></tr> <tr><td>00048869977555</td><td>Annelise Paulus</td><td>4370.00</td></tr> <tr><td>020048047363454</td><td>Carlos Innugado</td><td>3650.00</td></tr> <tr><td>9383629373927</td><td>Gerald Robertson</td><td>3240.00</td></tr> <tr><td>928362839238</td><td>Heinz Schloss</td><td>2780.00</td></tr> </tbody> </table>		Payment ID	Name	Amount	484638993744	Beam Jeong	9000.00	393826392839273	Jinnipa Suh	7760.50	03938095853	Suzanna Grafton	7680.50	5885847556505	Johnny Smith	7650.00	38470048656	Tim Warren	5580.50	083762539	Janny Huizinga	5560.35	746229273094736	Jisung Olenga	4743.00	00048869977555	Annelise Paulus	4370.00	020048047363454	Carlos Innugado	3650.00	9383629373927	Gerald Robertson	3240.00	928362839238	Heinz Schloss	2780.00
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Table 28:

Report: The list of customers who have a tier of Platinum Elite.													
Objective	To display information on customers who have a tier of Platinum Elite. The result must have two columns: Name and Tier.												
SQL Command													
<pre>SELECT c.cus_name as Name, cen.tier as Tier FROM customer c LEFT JOIN CentaraThe1Account cen on c.CentaraThe1_no = cen.CentaraThe1_no WHERE cen.tier = 'Platinum Elite';</pre>													
Query Result													
<table border="1"> <thead> <tr> <th>Name</th><th>Tier</th></tr> </thead> <tbody> <tr> <td>Annelise Paulus</td><td>Platinum Elite</td></tr> <tr> <td>Jaemin Weston</td><td>Platinum Elite</td></tr> <tr> <td>Georgette Schlumberg</td><td>Platinum Elite</td></tr> <tr> <td>Gerald Robertson</td><td>Platinum Elite</td></tr> <tr> <td>Georgee Papar</td><td>Platinum Elite</td></tr> </tbody> </table>		Name	Tier	Annelise Paulus	Platinum Elite	Jaemin Weston	Platinum Elite	Georgette Schlumberg	Platinum Elite	Gerald Robertson	Platinum Elite	Georgee Papar	Platinum Elite
Name	Tier												
Annelise Paulus	Platinum Elite												
Jaemin Weston	Platinum Elite												
Georgette Schlumberg	Platinum Elite												
Gerald Robertson	Platinum Elite												
Georgee Papar	Platinum Elite												

Table 29:

Report: The list of customers who have the letter 'C' in their passport number.		
Objective	To display information on customers who have the letter 'C' in their passport number. The result must have three columns: Name, Phone number, and Passport number	
SQL Command		
<pre>SELECT cus_name as Name, Phone_number as 'Phone number', Passport_no as 'Passport number' FROM customer WHERE Passport_no like '%C%';</pre>		
Query Result		
Name	Phone number	Passport number
Beam Jeong	0768341631	C03002927
Georgee Papar	0873443578	C03003805
Gerald Robertson	0657885495	C03007568
Jaehyun Oblonski	0548366740	C03009817
Jisung Olenga	0536612326	C03005912
Johnny Smith	0643786542	C03098762
Sidney Wesson	0995735690	C03028735
Tring Robertson	0805604824	C03008905

Table 30:

Report: The list of customers who have amounts to be paid less than the average amount.				
Objective	To display information on customers who have amounts to be paid less than the average amount. The result must have three columns: Name, Destination, and Amount, sorted by the amount from least to greatest.			
SQL Command				
<pre>SELECT r.cus_name AS Name, r.destination as Destination, p.amount AS Amount FROM reservation r JOIN payment p on r.booking_no = p.booking_no WHERE p.amount < (SELECT AVG(amount) FROM payment) ORDER BY p.amount ASC;</pre>				
Query Result				
Name	Destination	Amount		
Anney Smithson	Centara Korat	1890.00		
Georgee Papar	Centara Grand Hotel Osaka	1920.50		
Heinz Schloss	Centra by Centara Hotel Bangkok Phra Nakhon	2780.00		
Gerald Robertson	Centara Koh Chang Tropicana Resort	3240.00		
Carlos Innugado	Centra by Centara Maris Resort Jomtien	3650.00		
Annelise Paulus	Centra by Centara Phu Pano Resort Krabi	4370.00		
Jisung Olenga	Centara Azure Hotel Pattaya	4743.00		
Janny Huizinga	Centara Koh Chang Tropicana Resort	5560.35		
Tim Warren	Centra by Centara Maris Resort Jomtien	5580.50		
Johnny Smith	Centara Reserve Samui	7650.00		
Suzanna Grafton	Maikhao Hotel managed by Centara	7680.50		
Jinnipa Suh	Centara Grand at Central Plaza Ladprao Bangkok	7760.50		
Beam Jeong	Centara Grand at Central Plaza Ladprao Bangkok	9000.00		

Table 31:

Report: The list of branches and their phone numbers.				
Objective	To display information on the phone numbers of the branches, including branch name and location.			
SQL Command				
<pre>SELECT b.Branch_name, b.Branch_location, bn.Branch_Phonenumbe FROM Branch b JOIN B_PhoneNumbers bn ON b.Branch_name = bn.Branch_name;</pre>				
Query Result				
Branch_name	Branch_location	Branch_Phonenumbe		
Al Hail Waves Hotel Managed By Centara	Oman	96824429300		
Centara Anda Dhevi Resort and Spa Krabi	Thailand	6675626222		
Centara Ao Nang Beach Resort & Spa Krabi	Thailand	6675815999		
Centara Ayutthaya	Thailand	6627691234		
Centara Azure Hotel Pattaya	Thailand	6633083333		
Centara Ceysands Resort & Spa Sri Lanka	Sri Lanka	94342275073		
Centara Chaan Talay Resort & Villas, Trat	Thailand	663952156170		
Centara Grand at Central Plaza Ladprao Bangkok	Thailand	6625411234		
Centara Grand at CentralWorld	Thailand	6621001234		
Centara Grand Beach Resort & Villas Hua Hin	Thailand	6632512021		
Centara Grand Beach Resort & Villas, Krabi	Thailand	6675637789		
Centara Grand Beach Resort Phuket	Thailand	6676201234		
Centara Grand Hotel Osaka	Japan	81666169945		
Centara Grand Island Resort & Spa Maldives	Republic of Maldives	9604009999		
Centara Grand Mirage Beach Resort Pattaya	Thailand	6638301234		
Centara Hotel Hat Yai	Thailand	6674352222		
Centara Karon Resort Phuket	Thailand	66763962008		
Centara Kata Resort Phuket	Thailand	6676370300		
Centara Koh Chang Tropicana Resort	Thailand	6639557122		
Centara Korat	Thailand	6644251234		
Centara Mirage Beach Resort Dubai	UAE	97145229999		
Centara Mirage Resort Mui Ne	Vietnam	84252222202		
Centara Muscat Hotel Oman	Oman	96824236600		
Centara Nova Hotel Pattaya	Thailand	6638725999		
Centara Pattaya Hotel	Thailand	6638295999		
Centara Q Resort Rayong	Thailand	6638657378		
Centara Ras Fushi Resort & Spa Maldives	Republic of Maldives	9606643880		
Centara Reserve Samui	Thailand	6677230500		
Centara Riverside Hotel Chiang Mai	Thailand	6653275300		
Centara Sonrisa Residences and Suites Sriracha	Thailand	6638316888		
Centara Ubon	Thailand	6645319556		
Centara Udon	Thailand	6642343555		
Centara Villas Phuket	Thailand	6676372299		
Centara Villas Samui	Thailand	6677424020		
Centara Watergate Pavillion Hotel Bangkok	Thailand	6626251234		
Centara West Bay Hotel & Residences Doha	Qatar	97440095555		
Centra by Centara Avenue Hotel Pattaya	Thailand	6638723900		
Centra by Centara Cha Am Beach Resort Hua Hin	Thailand	66325082349		
Centra by Centara Government Complex Hotel & Convention Centre Chaeng Watthana	Thailand	6621431234		
Centra by Centara Hotel Bangkok Phra Nakhon	Thailand	6620226336		
Centra by Centara Hotel Mae Sot	Thailand	6655532601		
Centra by Centara Maris Resort Jomtien	Thailand	6638103333		
Centra By Centara Muscat Dunes Hotel	Oman	96824397500		
Centra by Centara Phu Pano Resort Krabi	Thailand	66756078889		
COSI Krabi Ao Nang Beach	Thailand	6675819999		
COSI Pattaya Wong Amat Beach	Thailand	6638182345		
COSI Samui Chaweng Beach	Thailand	6621021232		
Maikhao Dream Villa Resort and Spa, Centara Boutique Collection	Thailand	6676371371		
Maikhao Hotel managed by Centara	Thailand	6676371388		
ROUKH KIRI KHAO YAI	Thailand	6644001300		
Waterfront Suites Phuket by Centara	Thailand	6676396767		

Table 32:

Report: The list of total amount to be paid for each reservation.																																																					
Objective	To display information on the total amount paid for each reservation, including the booking number and total paid.																																																				
SQL Command																																																					
<pre>SELECT r.Booking_no, SUM(p.Amount) AS Total_Paid FROM Reservation r LEFT JOIN Payment p ON r.Booking_no = p.Booking_no GROUP BY r.Booking_no;</pre>																																																					
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Table 33:

Report: The list of WeChat payment details for reservations made by customers in the 'Gold' tier.									
Objective	To display information on WeChat payment details for reservations made by customers in the 'Gold' tier, including payment ID and WeChat ID.								
SQL Command									
<pre>SELECT W.Payment_ID, W.WeChat_ID FROM WeChatPay W JOIN Payment P ON W.Payment_ID = P.Payment_ID JOIN Reservation R ON P.Booking_no = R.Booking_no JOIN Customer C ON R.Cus_name = C.Cus_name AND R.Citizen_ID = C.Citizen_ID JOIN CentaraThe1Account A ON C.CentaraThe1_no = A.CentaraThe1_no WHERE A.Tier = 'Gold';</pre>									
Query Result									
<table border="1"> <thead> <tr> <th>Payment_ID</th><th>WeChat_ID</th></tr> </thead> <tbody> <tr> <td>9383628403</td><td>WC67890123</td></tr> <tr> <td>93826290784</td><td>WC45678901</td></tr> <tr> <td>8827169208</td><td>WC12345678</td></tr> </tbody> </table>		Payment_ID	WeChat_ID	9383628403	WC67890123	93826290784	WC45678901	8827169208	WC12345678
Payment_ID	WeChat_ID								
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93826290784	WC45678901								
8827169208	WC12345678								

Table 34:

Report: The list of total revenue generated by each branch.																																											
Objective	To display information on the total revenue generated by each branch, including branch name and total revenue.																																										
SQL Command																																											
<pre>SELECT B.Branch_name, SUM(P.Amount) AS TotalRevenue FROM Payment P JOIN Reservation R ON P.Booking_no = R.Booking_no JOIN Contain C ON R.Booking_no = C.Booking_no JOIN Branch B ON C.Branch_name = B.Branch_name GROUP BY B.Branch_name;</pre>																																											
Query Result																																											
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Table 35:

Report: The list of points in each centara the1 number.																																																					
Objective	To display information on points in each centara the1 number, including the centara the1 number and point. Sorted by point from the least to the highest.																																																				
SQL Command																																																					
<pre>SELECT CentaraThe1_no as 'CentaraThe1 number', Cen_Point as Point FROM CentaraThe1Account ORDER BY Cen_Point;</pre>																																																					
Query Result																																																					
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8754900864	8477322																																																				

Table 36:

Report: The list of customers who made a payment using a credit card.																															
Objective	To display information on customers who made a payment using a credit card, including the card holder's name and citizen ID.																														
SQL Command																															
<pre>SELECT DISTINCT C.Cus_name AS 'Card holder name', C.Citizen_ID FROM Customer C JOIN Payment P ON C.Payment_ID = P.Payment_ID JOIN Card CD ON P.Payment_ID = CD.Payment_ID;</pre>																															
Query Result																															
<table border="1"> <thead> <tr> <th>Card holder name</th><th>Citizen_ID</th></tr> </thead> <tbody> <tr><td>Annelise Paulus</td><td>1100492727999</td></tr> <tr><td>Jaemin Weston</td><td>1182749386480</td></tr> <tr><td>William Browning</td><td>1100472638299</td></tr> <tr><td>Chanyeol Richter</td><td>1100482639246</td></tr> <tr><td>Carlos Innugado</td><td>1809972535188</td></tr> <tr><td>Anton Jubilar</td><td>5343090036782</td></tr> <tr><td>Robert Smith</td><td>1100463519377</td></tr> <tr><td>Tim Warren</td><td>1100484630484</td></tr> <tr><td>Jinnipa Suh</td><td>1100403837362</td></tr> <tr><td>Beam Jeong</td><td>3309966251828</td></tr> <tr><td>Johnny Smith</td><td>1100482638221</td></tr> <tr><td>Jisung Olenga</td><td>3101488261039</td></tr> <tr><td>Georgette Schlumberg</td><td>1200905628361</td></tr> <tr><td>Gerald Robertson</td><td>1728075637599</td></tr> </tbody> </table>		Card holder name	Citizen_ID	Annelise Paulus	1100492727999	Jaemin Weston	1182749386480	William Browning	1100472638299	Chanyeol Richter	1100482639246	Carlos Innugado	1809972535188	Anton Jubilar	5343090036782	Robert Smith	1100463519377	Tim Warren	1100484630484	Jinnipa Suh	1100403837362	Beam Jeong	3309966251828	Johnny Smith	1100482638221	Jisung Olenga	3101488261039	Georgette Schlumberg	1200905628361	Gerald Robertson	1728075637599
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Table 37:

Report: The total number of airport transfer bookings for each vehicle used between 2020 and 2023.											
Objective	To display information on the total number of bookings for each vehicle used in airport transfers between 2020 and 2023, including vehicle and total bookings.										
SQL Command											
<pre>SELECT AT.Vehicle, COUNT(B.Plate_no) as Total_Bookings FROM Airport_transfer_service AT LEFT JOIN Booking B ON AT.Plate_no = B.Plate_no WHERE AT.Arrival_time BETWEEN '2020-01-01 00:00:00' AND '2023-12-31 00:00:00' GROUP BY AT.Vehicle;</pre>											
Query Result											
<table border="1"> <thead> <tr> <th>Vehicle</th><th>Total_Bookings</th></tr> </thead> <tbody> <tr> <td>Sedan</td><td>4</td></tr> <tr> <td>Limousine</td><td>1</td></tr> <tr> <td>SUV</td><td>3</td></tr> <tr> <td>Van</td><td>3</td></tr> </tbody> </table>		Vehicle	Total_Bookings	Sedan	4	Limousine	1	SUV	3	Van	3
Vehicle	Total_Bookings										
Sedan	4										
Limousine	1										
SUV	3										
Van	3										

Table 38:

Report: The list of three months with the highest number of reservations.	
Objective	To display information on the three months that have the highest reservations, including months and total bookings.
SQL Command	
<pre>SELECT MONTH(Reservation_date) AS Month, COUNT(Booking_no) AS Total_Bookings FROM Reservation GROUP BY Month ORDER BY Total_Bookings DESC LIMIT 3;</pre>	

Query Result

Month	Total_Bookings
1	5
7	4
2	3

Table 39:

Report: The total revenue generated in 2022.			
Objective	To display information on the total revenue Centara generated in 2023, which is the total payment of customers.		
SQL Command			
<pre>SELECT SUM(Amount) AS Total_Revenue FROM Payment WHERE Paid_date BETWEEN '2023-01-01' AND '2023-12-31';</pre>			
Query Result			
<table border="1"> <thead> <tr> <th>Total_Revenue</th> </tr> </thead> <tbody> <tr> <td>103508.00</td> </tr> </tbody> </table>		Total_Revenue	103508.00
Total_Revenue			
103508.00			

Table 40:

Report: The list of customers who have made reservations in 2023.																												
Objective	To display information on customers who have made reservations in 2023, including reservation date, citizen ID and customer name, and result in ascending reservation date.																											
SQL Command																												
<pre>SELECT DISTINCT Reservation_date, Cus_name, Citizen_ID FROM Reservation WHERE Reservation_date BETWEEN '2023-01-01' AND '2023-12-31' ORDER BY Reservation_date ASC;</pre>																												
Query Result:																												
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Evidence of Centara The 1 account registration

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