

# SEN2104 DATABASE MANAGEMENT SYSTEMS PROJECT

**Project Title:** Travel Management System

**Group Number:** 41

**Team Members:** Ediz Özdil,1906811

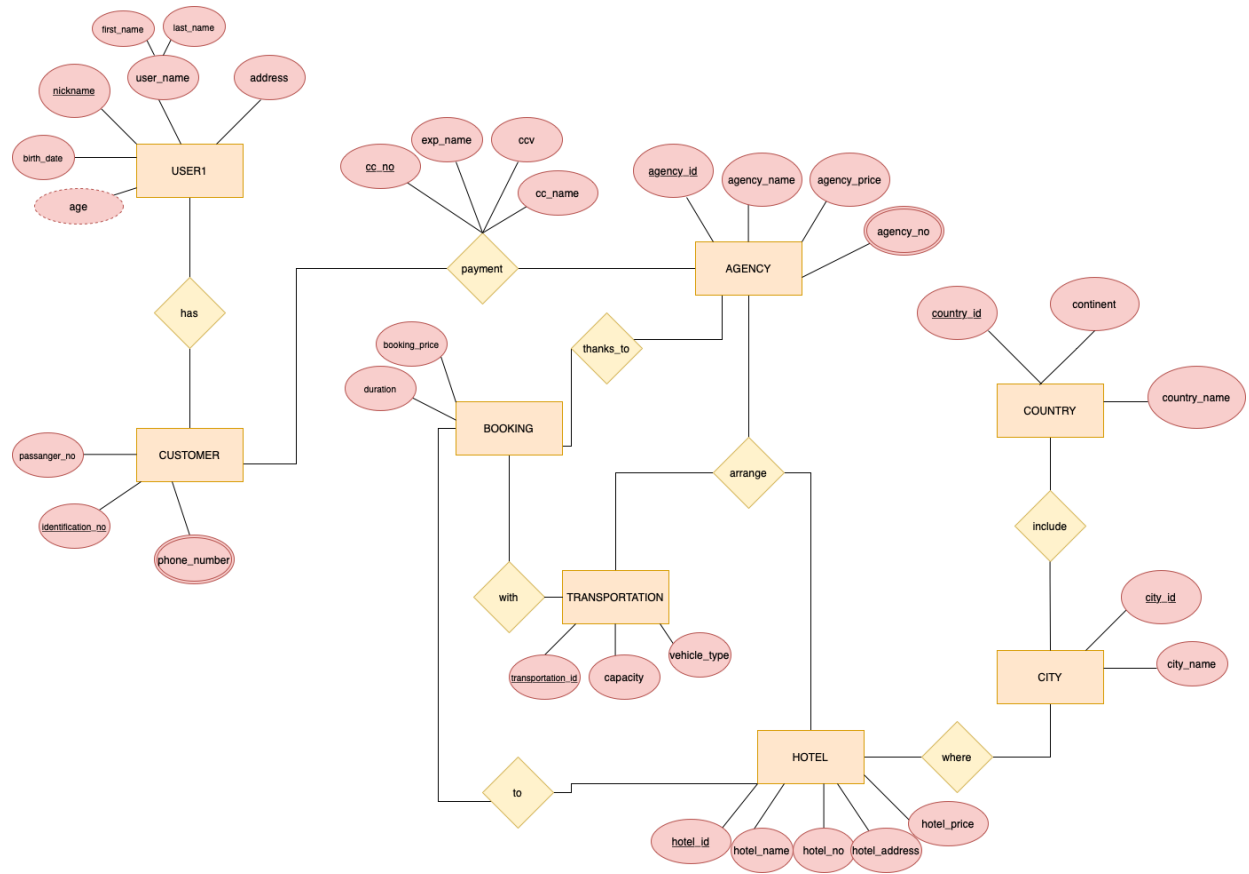
Mehmed Arslan Aras,1902935

Our project belongs to the database of a travel planning agency. This travel planning includes membership information, payment information, country information, city countries, hotel information, transportation information, and agency information. Users can filter the options as they want by specifying the feature on the name of the trip they plan. Users register to the application with their personal information. When users become a customer, they complete their membership by entering some special information. Users can pay by entering their payment information into the application. Agencies can arrange hotel and transportation information. Transportation companies have agency and hotel information. Reservation information is also presented to the customer with the hotel, transportation, and agency ids.

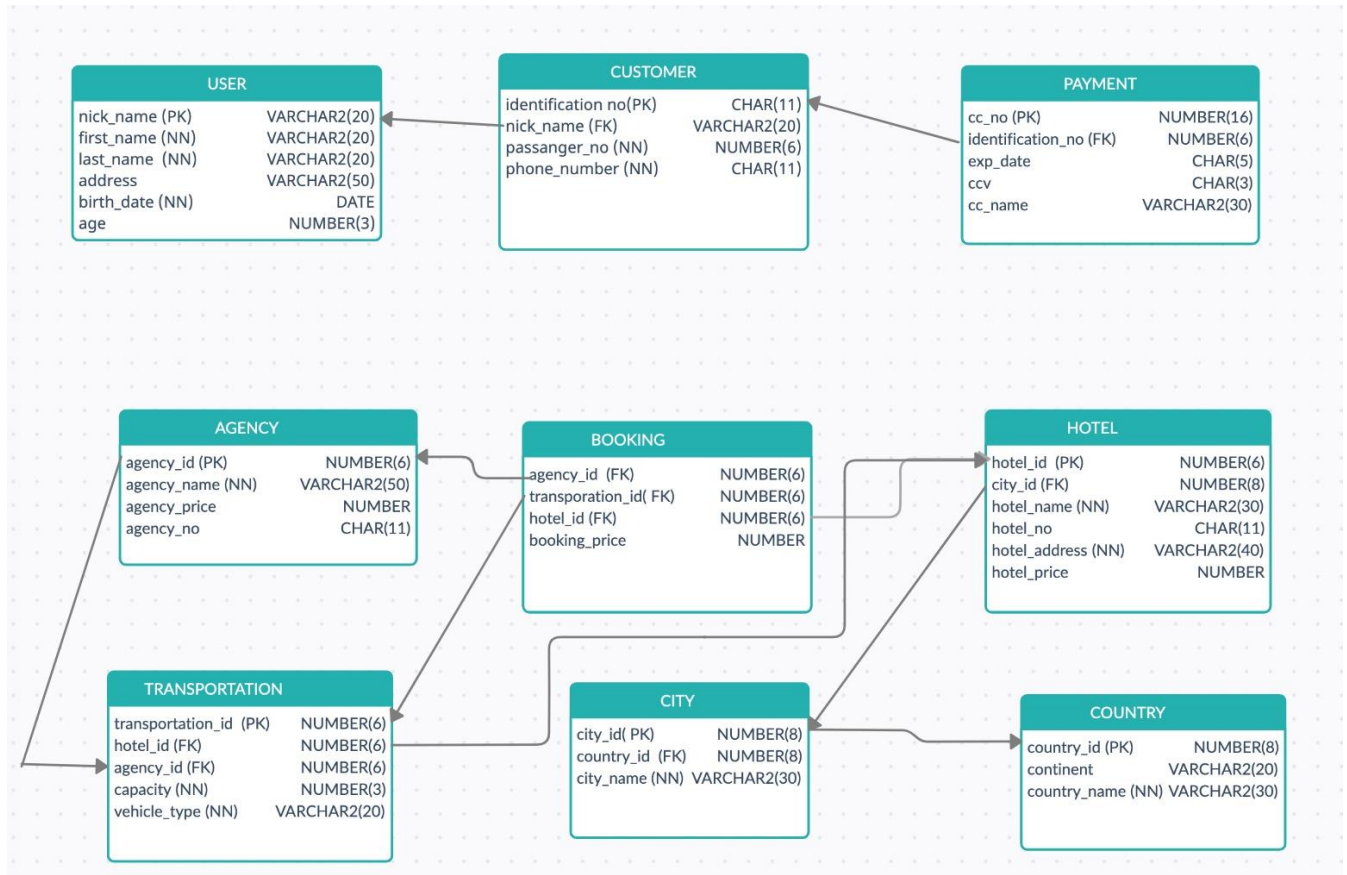
## MEMBER-TASK DISTRIBUTION

NAME/SURNAME	STUDENT ID	RESPONSIBILITIES
Ediz Özdil	1906811	Introduction, E-R Diagram, Boyce-Codd normal form, Create Table and Insert Into Statements
Mehmed Arslan Aras	1902935	Schema Diagram, Joins, Nested Queries, Set Operations and Aggregate Operations

## E-R DIAGRAM



## DATABASE SCHEMA DIAGRAM



## BOYCE-CODD NORMAL FORM

**R**={nickname, user\_name, address, birth\_date, age, first\_name, last\_name, identification\_no, phone\_number, passanger\_no, cc\_no, exp,name, ccv, cc\_name, agency\_id, agency\_name, agency\_price, agency\_no, hotel\_id, hotel\_name, hotel\_no, hotel\_address, hotel\_price, transportation\_id, capacity, vehicle\_type, duration, booking\_price, destination, city\_id , city\_name, country\_id, continent, country\_name}

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**User**={nickname -> user\_name, address, birth\_date, age, first\_name, last\_name}

**Customer**={identification\_no -> phone\_number, passanger\_no, nickname}

**Payment**= {cc\_no -> exp,name, ccv, cc\_name}

**Agency**={agency\_id -> agency\_name, agency\_price, agency\_no}

**Hotel**={hotel\_id -> hotel\_name, hotel\_no, hotel\_address, hotel\_price,city\_id}

**Transportation**={transportation\_id -> capacity, vehicle\_type, agency\_id, hotel\_id}

**Booking**={duration, booking\_price, destination, agency\_id, transportation\_id, hotel\_id}

**City**={city\_id -> city\_name, country\_id}

**Country**={country\_id -> continent, country\_name}

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**F**={identification\_no}+= {identification\_no,first\_name,last\_name}

**F1**={hotel\_id}+= {hotel\_id,city\_id,hotel\_name,hotel\_no,hotel\_address,hotel\_price}

**F2** = {agency\_id}+= {agency\_id,booking\_price}

**F3**={user\_id}+=

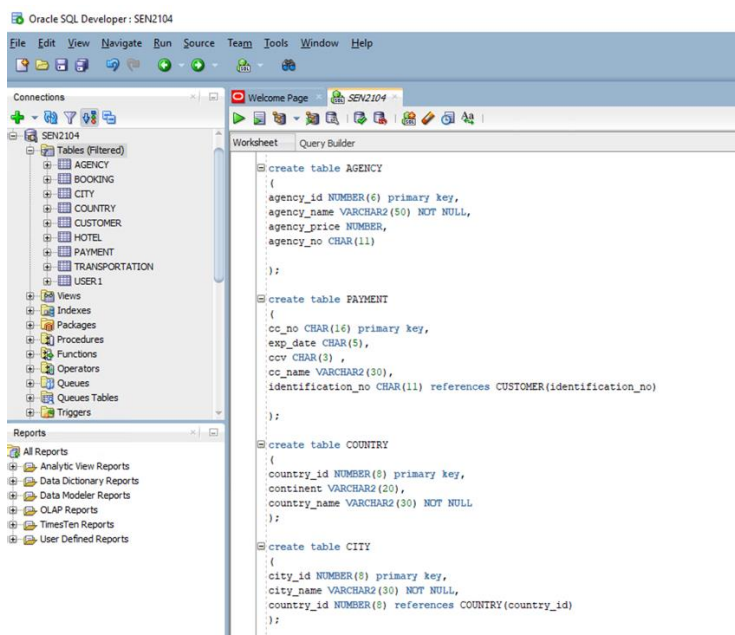
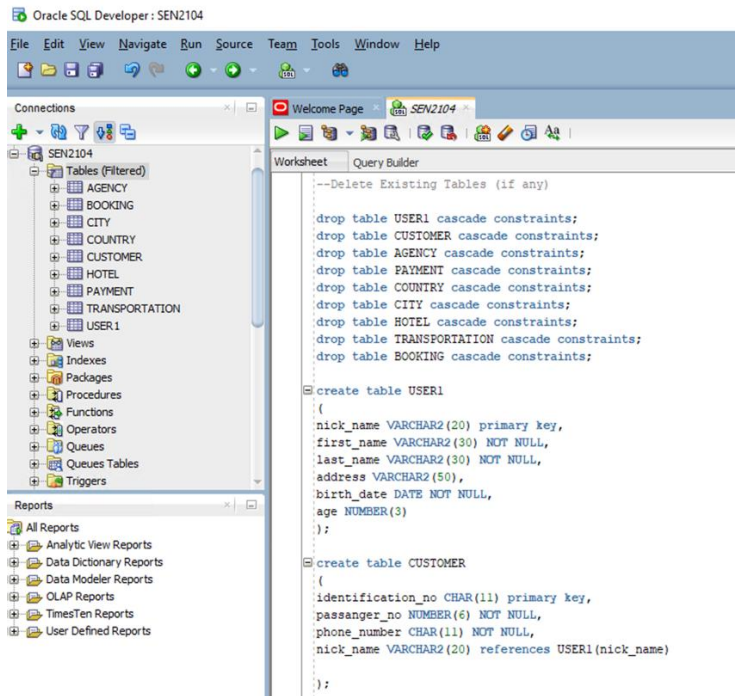
{nick\_name,identification\_no,first\_name,last\_name,address,birth\_date,age, phone\_number,passanger\_no}

**F4**={city\_id}+= {city\_id,city\_name,country\_name,continent}

**F5**={transportation\_id}+= {transportation\_id,vehicle\_type,capacity,hotel\_name, hotel\_address,agency\_name,city\_name}

# SQL CODE SCREENSHOTS

## Create Table Statements



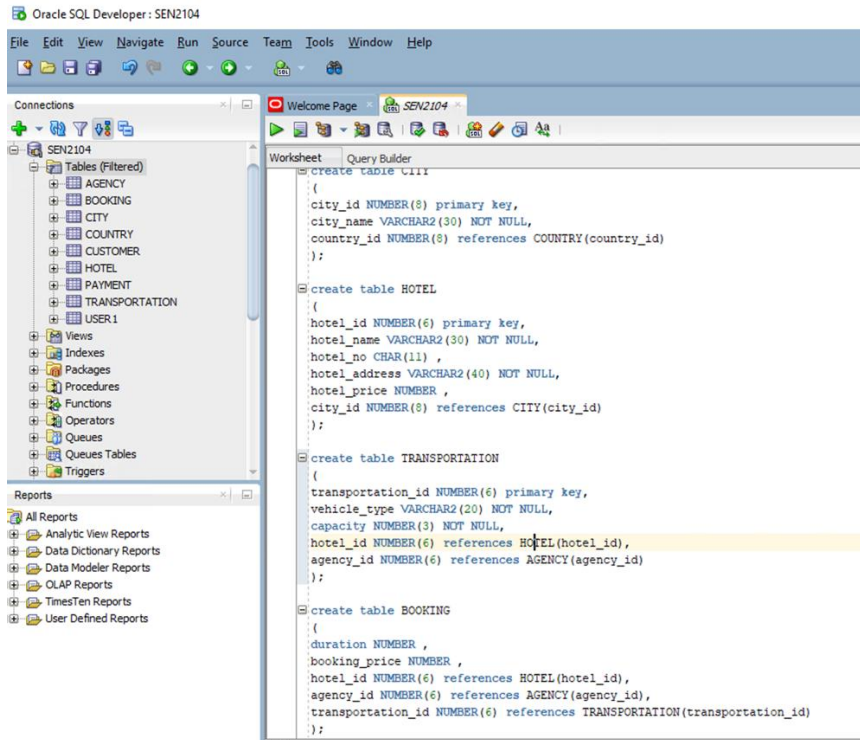


Table USER1 created.

Table CUSTOMER created.

Table AGENCY created.

Table PAYMENT created.

Table COUNTRY created.

Table CITY created.

Table HOTEL created.

Table TRANSPORTATION created.

Table BOOKING created.



## Insert Into Statements

```
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(100,'Plane',555,'190280','111111');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(101,'Tour',800,'190281','111112');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(102,'Tour',120,'190283','111112');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(103,'Plane',450,'190284','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(104,'Bus',555,'190285','111111');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(105,'Tour',800,'190286','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(106,'Plane',120,'190287','111112');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(107,'Bus',350,'190288','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(108,'Plane',450,'190289','111111');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(109,'Tour',900,'190290','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(110,'Bus',250,'190291','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(111,'Plane',455,'190292','111111');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(112,'Plane',450,'190293','111114');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(113,'Bus',800,'190294','111114');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(114,'Plane',250,'190295','111114');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(115,'Tour',455,'190296','111114');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(116,'Plane',120,'190297','111112');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(117,'Plane',350,'190298','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(118,'Plane',450,'190299','111111');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(119,'Bus',900,'190301','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(120,'Plane',250,'190302','111113');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(121,'Bus',455,'190303','111111');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(122,'Tour',450,'190304','111114');
insert into TRANSPORTATION(transportation_id,vehicle_type,capacity,hotel_id,agency_id)values(123,'Plane',450,'190305','111114');
```

```
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('weeknd','abel','cesfaye','buras','08/Aug/2001',20);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('rihanna','rihanna','fenty','rice','1/Feb/2000',22);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('kidcudi','kid','cudi','risme','21/Nov/1992',29);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('tscott','tscott','travis','edrine','12/Dec/1991',30);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('cbrown','chris','brown','Antalya','10/Feb/1980',42);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('kendricklamar','kendrick','lamar','bodrum','01/Aug/1982',40);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('kim','kim','kardashian','mugla','12/Feb/2004',18);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('jackharlow','jack','harlow','ankara','9/Sep/2003',18);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('dualipa','dua','lipa','urfa','12/Nov/1992',29);
insert into USER1(nick_name,first_name,last_name,address,birth_date,age) values('dojacat','doja','cat','kastamonu','5/Jul/1990',31);

insert into AGENCY (agency_id,agency_name,agency_no) values(111111,'SPOT TOUR',02011234323);
insert into AGENCY (agency_id,agency_name,agency_no) values(111112,'CARTUS TOUR',02011234343);
insert into AGENCY (agency_id,agency_name,agency_no) values(111113,'WMNY TOUR',02011234342);
insert into AGENCY (agency_id,agency_name,agency_price,agency_no) values(111114,'CLOCK TOUR',1200,02011234341);

insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034891',100101,'05323213031','weeknd');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034892',100102,'05323213132','rihanna');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034893',100103,'05323213233','kidcudi');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034894',100104,'05323213334','tscott');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034895',100105,'05323213435','cbrown');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034896',100106,'05323213536','kendricklamar');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034897',100107,'05323213637','kim');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034898',100108,'05323213738','jackharlow');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034899',100109,'05323213839','dualipa');
insert into CUSTOMER(identification_no,passenger_no,phone_number,nick_name) values('19192034890',100100,'05323213930','dojacat');
```

```
insert into COUNTRY(country_id,continent,country_name) values(900900,'America','USA');
insert into COUNTRY(country_id,continent,country_name) values(900903,'Europe','French');
insert into COUNTRY(country_id,continent,country_name) values(900904,'Europe','Germany');
insert into COUNTRY(country_id,continent,country_name) values(900908,'America','Brazil');
insert into COUNTRY(country_id,continent,country_name) values(900909,'Asia','China');
insert into COUNTRY(country_id,continent,country_name) values(900910,'Africa','Nigeria');
insert into COUNTRY(country_id,continent,country_name) values(900911,'Africa','Egypt');
insert into COUNTRY(country_id,continent,country_name) values(900914,'Asia','Japan');

insert into CITY(city_id,city_name,country_id) values(9100900,'Washington',900900);
insert into CITY(city_id,city_name,country_id) values(9130900,'Paris',900903);
insert into CITY(city_id,city_name,country_id) values(9140900,'Berlin',900904);
insert into CITY(city_id,city_name,country_id) values(9180900,'Brazil',900908);
insert into CITY(city_id,city_name,country_id) values(9190900,'Pekin',900909);
insert into CITY(city_id,city_name,country_id) values(9200900,'Abuja',900910);
insert into CITY(city_id,city_name,country_id) values(9210900,'Cairo',900911);
insert into CITY(city_id,city_name,country_id) values(9240900,'Tokyo',900914);
```

```
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190280,'Lost Hotel',31003392121,10000,'Capital Hall NO:90234',9100900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190281,'Mirjevski',09990002123,900000,'Mail district NO:45',9100900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190283,'Mother Mary Concept Hotel',5667433434,999,'Pekin',9100900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190284,'Stranger Things',90012244212,9010,'Akaretler Street',9130900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190285,'La Casa de Hotel',90014554575,1200,'La Papel street NO:10',9190900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190286,'Papa Lord',8448882132,8700,'Capital Hall NO:5',9130900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190287,'Old Wine Factory',09000000090,67810,'Ata street NO:1',9180900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190288,'Beer Hall',03423782323,31000,'Survivor Hall NO:21',9180900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190289,'Hotel de More',90011243422,23900,'Loose street NO:929',9180900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190290,'Sui Mitra',90011243424,12090,'Star street NO:10',9190900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190291,'Summer in LONDON',90011243477,1290,'London street NO:10',9190900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190292,'Suna Nights',9000222372,9000,'Capital Sura street NO:10',9190900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190293,'Agent in Apartments',09872829822,59000,'Pekin Central Hall NO:223');
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190294,'Aquapark USA',01235467789,900,'Don district NO:65',9200900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190295,'Street Design',34567772142,860,'Risque street NO:11',9200900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190296,'Van de Pale',77703232322,4300,'Rihanna street NO:1',9140900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190297,'Streetsing Hotel',90011243422,92000,'Dolma district NO:1001');
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190299,'Anxiety Hotel',90011246466,120,'Brain street NO:1',9140900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190299,'Mood Booster Night Hotel',90011245555,760,'TGO district NO:10);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190301,'Boosasa Night Hotel',90012344323,450,'All Star street NO:223);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190302,'Boo Night Hotel',90229877676,1230,'Garlic Bread district NO:6);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190303,'QNB BANK HOTEL',09872829822,99000,'Laugh Central Hall NO:31');
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190304,'Believer Nights',01235467789,90000,'Diren district NO:6335',9180900);
insert into HOTEL(hotel_id,hotel_name,hotel_no,hotel_price,hotel_address,city_id) values(190305,'Money Design',34567772142,340,'Another Round street NO:181',9180900);
```

```
delete from user1;
```

[illegible]



```
delete from user1;
select * from user1;
```

Script Output x Query Result x

SQL | All Rows Fetched: 10 in 0.101 seconds

	NICK_NAME	FIRST_NAME	LAST_NAME	ADDRESS	BIRTH_DATE	AGE
1	weeknd	abel	tesfaye	bursa	08-AUG-01	20
2	rihanna	rihanna	fenty	rize	01-FEB-00	22
3	kidcudi	kid	cudi	izmir	21-JUL-92	29
4	tscott	travis	scott	edirne	12-DEC-91	30
5	cbrown	chris	brown	antalya	10-FEB-80	42
6	kendricklamar	kendrick	lamar	bodrum	01-AUG-82	40
7	kimk	kim	kardashian	mugla	12-FEB-04	18
8	jackharlow	jack	harlow	ankara	09-SEP-03	18
9	dualipa	dua	lipa	urfa	12-NOV-92	29
10	dojacat	doja	cat	kastamonu	05-JUL-90	31

```
delete from agency;
select * from agency;
```

Script Output x Query Result x

SQL | All Rows Fetched: 4 in 0.05 seconds

	AGENCY_ID	AGENCY_NAME	AGENCY_PRICE	AGENCY_NO
1	111111	SPOT TOUR	(null)	2011234323
2	111112	CACTUS TOUR	(null)	2011234343
3	111113	MANY TOUR	(null)	2011234342
4	111114	CLOCK TOUR	1200	2011234341

```
delete from customer;
select * from customer;
```

Script Output x Query Result x

SQL | All Rows Fetched: 10 in 0.052 seconds

	IDENTIFICATION_NO	PASSANGER_NO	PHONE_NUMBER	NICK_NAME
1	19192034891		100101 05323213031	weeknd
2	19192034892		100102 05323213132	rihanna
3	19192034893		100103 05323213233	kidcudi
4	19192034894		100104 05323213334	tscott
5	19192034895		100105 05323213435	cbrown
6	19192034896		100106 05323213536	kendricklamar
7	19192034897		100107 05323213637	kimk
8	19192034898		100108 05323213738	jackharlow
9	19192034899		100109 05323213839	dualipa
10	19192034890		100100 05323213930	dojacat

```
delete from country;
select * from country;
```

Script Output x Query Result x

SQL | All Rows Fetched: 8 in 0.052 seconds

	COUNTRY_ID	CONTINENT	COUNTRY_NAME
1	900900	America	USA
2	900903	Europe	French
3	900904	Europe	Germany
4	900908	America	Brazil
5	900909	Asia	China
6	900910	Africa	Nigeria
7	900911	Africa	Egypt
8	900914	Asia	Japan

```
delete from payment;
select * from payment;
```

Script Output x Query Result x

SQL | All Rows Fetched: 10 in 0.059 seconds

	CC_NO	EXP_DATE	CCV	CC_NAME	IDENTIFICATION_NO
1	2387947524356767	05/25	199	Abel Tesfaye	19192034891
2	2387947545356767	01/25	213	Rihanna Fenty	19192034892
3	2387941224356767	02/30	342	Kid Cudi	19192034893
4	2387947524222767	03/29	232	Travis Scott	19192034894
5	2389947524356767	04/29	245	Chris Brown	19192034895
6	2387232524356767	07/28	253	Kendrick Lamar	19192034896
7	2382347524356767	12/27	112	Kim Kardashian	19192034897
8	2387947544356767	11/23	92	Jack Harlow	19192034898
9	2427947524356767	09/23	109	Dua Lipa	19192034899
10	2387943424356767	02/25	111	Doja Cat	19192034890

```
delete from city;
select * from city;
```

Script Output x Query Result x

SQL | All Rows Fetched: 8 in 0.06 seconds

	CITY_ID	CITY_NAME	COUNTRY_ID
1	9100900	Washington	900900
2	9130900	Paris	900903
3	9140900	Berlin	900904
4	9180900	Brazil	900908
5	9190900	Pekin	900909
6	9200900	Abuja	900910
7	9210900	Cairo	900911
8	9240900	Tokyo	900914

```
delete from hotel;
select * from hotel;
```

Script Output x Query Result x

SQL | All Rows Fetched: 24 in 0.062 seconds

	HOTEL_ID	HOTEL_NAME	HOTEL_NO	HOTEL_ADDRESS	HOTEL_PRICE	CITY_ID
1	190280	Lost Hotel	31003392121	Capital Hall NO:90234	10000	9100900
2	190281	Mirjevski	9990002123	Mail district NO:45	900000	9100900
3	190283	Mother Mary Concept Hotel	56667433434	Pekin	999	9100900
4	190284	Stranger Things	90012234212	Akaretler street	9010	9130900
5	190285	La Casa de Hotel	90014556575	La Papel street NO:10	1200	9130900
6	190286	Papa Lord	84848882132	Capital Hall NO:5	8700	9130900
7	190287	Old Wine Factory	9000000090	Ata street NO:1	67810	9180900
8	190288	Beer Hall	3423782323	Survivor Hall NO:21	31000	9180900
9	190289	Hotel de More	90011243422	Loose street NO:929	23900	9180900
10	190290	Suit Mitra	90011243424	Star street NO:10	12090	9190900
11	190291	Summer in LONDON	90011243477	London street NO:10	1290	9190900
12	190292	Suva Nights	90002228372	Capital Suva street NO:2	9000	9190900
13	190293	Agent in Apartments	9872829922	Pekin Central Hall NO:1	99000	9200900
14	190294	Aquapark USA	1235467789	Don district NO:65	900	9200900
15	190295	Street Design	34567772142	Risque street NO:11	860	9200900
16	190296	Kan de Pale	77703233282	Rihanna street NO:1	4300	9140900
17	190297	Streetsing Hotel	90011243422	Dolma district NO:1001	92000	9140900
18	190298	Anxiety Hotel	90011246666	Brain street NO:1	120	9140900
19	190299	Mood Booster Night Hotel	90011245555	IGO district NO:10	760	9210900
20	190201	Boossss Night Hotel	90012344323	All Star street NO:22220	450	9210900
21	190202	Boo Night Hotel	90229877676	Garlic Bread district NO:90	1230	9210900
22	190203	QNB BANK HOTEL	9872829922	Laugh Central Hall NO:31	99000	9240900
23	190204	Believer Nights	1235467789	Diren district NO:6335	90000	9240900
24	190205	Money Design	34567772142	Another Round street NO:181	340	9240900

```
delete from transportation;
```

```
select * from transportation;
```

Script Output x Query Result x

SQL | All Rows Fetched: 24 in 0.063 seconds

	TRANSPORTATION_ID	VEHICLE_TYPE	CAPACITY	HOTEL_ID	AGENCY_ID
1	100	Plane	555	190280	111111
2	101	Tour	800	190281	111112
3	102	Tour	120	190283	111112
4	103	Plane	450	190284	111113
5	104	Bus	555	190285	111111
6	105	Tour	800	190286	111113
7	106	Plane	120	190287	111112
8	107	Bus	350	190288	111113
9	108	Plane	450	190289	111111
10	109	Tour	900	190290	111113
11	110	Bus	250	190291	111113
12	111	Plane	455	190292	111111
13	112	Plane	450	190293	111114
14	113	Bus	900	190294	111114
15	114	Plane	250	190295	111114
16	115	Tour	455	190296	111114
17	116	Plane	120	190297	111112
18	117	Plane	350	190298	111113
19	118	Plane	450	190299	111111
20	119	Bus	900	190201	111113
21	120	Plane	250	190202	111113
22	121	Bus	455	190203	111111
23	122	Tour	450	190204	111114
24	123	Plane	450	190205	111114

```
delete from booking;
```

```
select * from booking;
```

Script Output x Query Result x

SQL | All Rows Fetched: 24 in 0.054 seconds

	DURATION	BOOKING_PRICE	HOTEL_ID	AGENCY_ID	TRANSPORTATION_ID
1	5	10000	190280	111111	100
2	4	12000	190281	111112	101
3	3	9000	190283	111112	102
4	5	12000	190284	111113	103
5	2	9000	190285	111111	104
6	1	3000	190286	111113	105
7	7	40000	190287	111112	106
8	3	5000	190288	111113	107
9	4	10000	190289	111111	108
10	3	9000	190290	111113	109
11	4	12000	190291	111113	110
12	5	17000	190292	111111	111
13	5	19000	190293	111114	112
14	6	30000	190294	111114	113
15	2	9000	190295	111114	114
16	3	9000	190296	111114	115
17	3	12000	190297	111112	116
18	2	9000	190298	111113	117
19	3	12000	190299	111111	118
20	2	10000	190201	111113	119
21	2	10000	190202	111113	120
22	1	6000	190203	111111	121
23	2	8900	190204	111114	122
24	3	9000	190205	111114	123

## 2 JOIN WITH CONDITIONS

```
--2 join

Select first_name , last_name, identification_no

from user1 , customer
where user1.nick_name= customer.nick_name;
```

Script Output x Query Result x

SQL | All Rows Fetched: 10 in 0.053 seconds

	FIRST_NAME	LAST_NAME	IDENTIFICATION_NO
1	abel	tesfaye	19192034891
2	rihanna	fenty	19192034892
3	kid	cudi	19192034893
4	travis	scott	19192034894
5	chris	brown	19192034895
6	kendrick	lamar	19192034896
7	kim	kardashian	19192034897
8	jack	harlow	19192034898
9	dua	lipa	19192034899
10	doja	cat	19192034890

```
--2 join

Select identification_no
from Customer
inner join user1
on customer.nick_name= user1.nick_name;
```

Query Result x

SQL | All Rows Fetched: 10 in 0.051 seconds

	IDENTIFICATION_NO
1	19192034891
2	19192034892
3	19192034893
4	19192034894
5	19192034895
6	19192034896
7	19192034897
8	19192034898
9	19192034899
10	19192034890



## 2 NESTED QUERIES

```
--2 nested queries
```

```
select *  
from hotel  
where hotel_id in(select hotel_id from hotel where hotel_price >10000);
```

Query Result 1 x						
All Rows Fetched: 9 in 0.053 seconds						
	HOTEL_ID	HOTEL_NAME	HOTEL_NO	HOTEL_ADDRESS	HOTEL_PRICE	CITY_ID
1	190281	Mirjevski	9990002123	Mail district NO:45	900000	9100900
2	190287	Old Wine Factory	9000000090	Ata street NO:1	67810	9180900
3	190288	Beer Hall	3423782323	Survivor Hall NO:21	31000	9180900
4	190289	Hotel de More	90011243422	Loose street NO:929	23900	9180900
5	190290	Suit Mitra	90011243424	Star street NO:10	12090	9190900
6	190293	Agent in Apartments	9872829922	Pekin Central Hall NO:1	99000	9200900
7	190297	Streetsing Hotel	90011243422	Dolma district NO:1001	92000	9140900
8	190203	QNB BANK HOTEL	9872829922	Laugh Central Hall NO:31	99000	9240900
9	190204	Believer Nights	1235467789	Diren district NO:6335	90000	9240900

```
--2 nested queries
```

```
select avg (booking_price) from booking  
where agency_id in(select agency_id from booking where booking_price >8500);
```

Query Result 2 x		
All Rows Fetched: 1 in 0.053 seconds		
	AVG(BOOKING_PRICE)	
1	12162.5	

## 2 SET OPERATION

```
--2 set operations

select * from(
select  nick_name from user1
union
select nick_name  from customer);
```

Query Result x | Query Result 1 x | Query Result 2 x

SQL | All Rows Fetched: 10 in 0.049 seconds

	NICK_NAME
1	cbrown
2	dojacat
3	dualipa
4	jackharlow
5	kendricklamar
6	kidcudi
7	kimk
8	rihanna
9	tscott
10	weeknd

```
--2 set operations

select * from (
select  agency_id from agency
intersect
select agency_id from transportation);
```

Query Result x | Query Result 1 x | Query Result 2 x

SQL | All Rows Fetched: 4 in 0.05 seconds

	AGENCY_ID
1	111111
2	111112
3	111113
4	111114

## 2 AGGREGATE OPERATION INCLUDE JOIN

```
-- 2 aggregate operations with join
select city_name,
       round(avg (hotel_price))
from hotel join city on city.city_id= hotel.city_id group by city_name;
```

Query Result x   Query Result 1 x   Query Result 2 x		
All Rows Fetched: 8 in 0.048 seconds		
CITY_NAME	ROUND(AVG(HOTEL_PRICE))	
1 Brazil	40903	
2 Abuja	33587	
3 Cairo	813	
4 Tokyo	63113	
5 Berlin	32140	
6 Washington	303666	
7 Paris	6303	
8 Pekin	7460	

```
--2 aggregate operations with join
select city_name,
       min (hotel_price)
from hotel join city on city.city_id= hotel.city_id group by city_name;
```

Query Result x   Query Result 1 x   Query Result 2 x		
All Rows Fetched: 8 in 0.052 seconds		
CITY_NAME	MIN(HOTEL_PRICE)	
1 Brazil	23900	
2 Abuja	860	
3 Cairo	450	
4 Tokyo	340	
5 Berlin	120	
6 Washington	999	
7 Paris	1200	
8 Pekin	1290	