3.1.1 Conception phase: Requirements Specification

In the following, I am going to create a requirements analysis that will address the following aspects in more detail. To begin with I explain what roles there will be in the er model. Upon that, I will describe what action these roles perform. After that, I will elucidate what date and functions will be required.

First, there will be an accommodation entity. This entity consists of several references to entities that describe the possible attributes of accommodations. The accommodation entity consists of accommodation images, accommodation descriptions, accommodations room types, accommodation types, accommodations addresses and accommodations amenities. It will contain further information like the host id of the accommodation, the reviews, price per night in the accommodation, the used currency, the available promo code for the accommodation, and the bed/room count. The accommodation entity will be referenced in the Booking's entity.

Furthermore, there will be a review entity. This entity consists of two references to entities that describe the review entity. The first one is the review Body entity and the second one is the review Rating entity. The Review entity will be referenced in the accommodation entity.

Besides, there are the country and city entities. The Country entity consists of the country name and the corresponding country code. The City entity consists of the city name and a reference to the country entity. These entities will be referenced in the accommodations Addresses entity and in the address's entity for the users.

After that, there are the user and hostess entities.

The Users entity consists of several relevant pieces of information about the users and a reference to the user addresses entity. In detail, the user entity contains the first name, last name, email, date of birth, and the reference to the user addresses entity.

The Hostess Entity consists of a reference to the user's entity and a reference to the language entity. The reference to the user entity explains itself as follows. Each user can be a host and a guest. The reference to the language's entity describes the languages utilized to communicate with the guests by the host.

Furthermore, there are the entity's promo codes and currencies.

The promo code entity consists of two attributes. The code itself and the corresponding discount value. This entity will be referenced in the accommodation entity.

The currencies entity also consists of two attributes. The currency name itself and the corresponding exchange rate. This entity will also be referenced in the accommodation entity.

The Only two entities left are the bookings entity and the transactions entity.

The Bookings entity consists of a reference to the users and accommodations entity. Furthermore, it contains attributes like the start and end date of a booking and the number of nights. The bookings entity will be referenced in the Transactions entity.

At the end is the transaction entity. This entity consists of the reference to the user and host entity respectively as payee and receiver and a reference to the booking entity. Over that the transaction entity contains attributes like the payment and transfer date and the amount of the transaction.

The main concept is, that there are accommodations that can be booked by users. All the entities around accommodations just describe the status of the accommodations. The Users and Hostess entities list all the users and those who are hosts with relevant information. The Booking entity connects the user with the booked accommodation and provides additional information. The Transaction entity accumulates the information that results from the booking process. The Review entity contains the reviews for the accommodations.

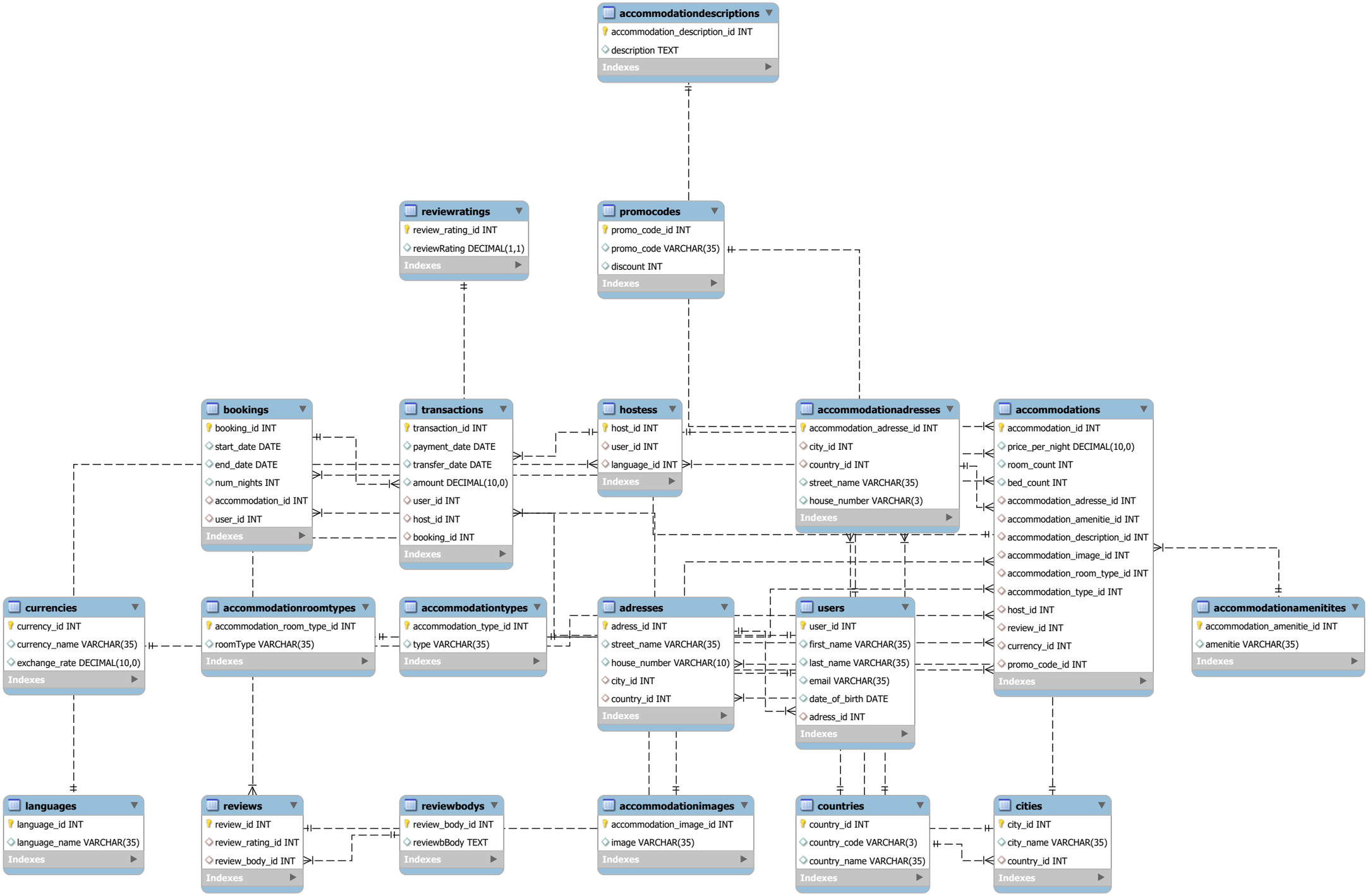
The following functions will be needed for the database to work properly.

The first function will convert the price per night according to the appropriate currency. For example, the original currency for one accommodation is in euros, but the user is only able to pay in dollars. Therefore, the function will solve this problem by converting the currencies.

The second function applies the promo code to the price per night.

The last Function calculates the resulting amount of the booking. It performs that by multiplying the number of nights with the price per night.

Primarily the needed date will be of the types of varchar, text, int, decimal, and dates. As there is an entity for the accommodation images one expects that there will be the correct data type used for images, but I do think that this would be very difficult to implement here. Therefore, I will use varchar as an alternative for replacing the images.


accommodationdescriptions
accommodation_description_id INT
description TEXT
Indexes
reviewratings
review_rating_id INT
reviewRating DECIMAL(1,1)
Indexes
promocodes
promo_code_id INT
promo_code VARCHAR(35)
discount INT
Indexes
bookings
booking_id INT
start_date DATE
end_date DATE
num_nights INT
accommodation_id INT
user_id INT
Indexes
transactions
transaction_id INT
payment_date DATE
transfer_date DATE
amount DECIMAL(10,0)
user_id INT
host_id INT
booking_id INT
Indexes
hostess
host_id INT
user_id INT
language_id INT
Indexes
accommodationadresses
accommodation_adresse_id INT
city_id INT
country_id INT
street_name VARCHAR(35)
house_number VARCHAR(3)
Indexes
accommodations
accommodation_id INT
price_per_night DECIMAL(10,0)
room_count INT
bed_count INT
accommodation_adresse_id INT
accommodation_amenitie_id INT
accommodation_description_id INT
accommodation_image_id INT
accommodation_room_type_id INT
accommodation_type_id INT
host_id INT
review_id INT
currency_id INT
promo_code_id INT
Indexes
currencies
currency_id INT
currency_name VARCHAR(35)
exchange_rate DECIMAL(10,0)
Indexes
accommodationroomtypes
accommodation_room_type_id INT
roomType VARCHAR(35)
Indexes
accommodationtypes
accommodation_type_id INT
type VARCHAR(35)
Indexes
adresses
adress_id INT
street_name VARCHAR(35)
house_number VARCHAR(10)
city_id INT
country_id INT
Indexes
users
user_id INT
first_name VARCHAR(35)
last_name VARCHAR(35)
email VARCHAR(35)
date_of_birth DATE
adress_id INT
Indexes
accommodationamenitites
accommodation_amenitie_id INT
amenitie VARCHAR(35)
Indexes
languages
language_id INT
language_name VARCHAR(35)
Indexes
reviews
review_id INT
review_rating_id INT
review_body_id INT
Indexes
reviewbodys
review_body_id INT
reviewbBody TEXT
Indexes
accommodationimages
accommodation_image_id INT
image VARCHAR(35)
Indexes
countries
country_id INT
country_code VARCHAR(3)
country_name VARCHAR(35)
Indexes
cities
city_id INT
city_name VARCHAR(35)
country_id INT
Indexes

schema_nm	table_nm	obj_typ	ord	is_key	column_nm	data_typ	nullable	column_descr
airbnb	accommodationadresses	TBL	1	PK,UK	accommodation_adresse_id	int(10)	NOT NULL	for unique identification
airbnb	accommodationadresses	TBL	2	FK	city_id	int(10)	NULL	reference to city
airbnb	accommodationadresses	TBL	3	FK	country_id	int(10)	NULL	reference to country
airbnb	accommodationadresses	TBL	4		street_name	varchar(35)	NULL	acc.street name
airbnb	accommodationadresses	TBL	5		house_number	varchar(3)	NULL	acc.house number
airbnb	accommodationamenitites	TBL	1	PK,UK	accommodation_amenitie_id	int(10)	NOT NULL	for unique identification
airbnb	accommodationamenitites	TBL	2		amenitie	varchar(35)	NULL	acc.amenity
airbnb	accommodationdescriptions	TBL	1	PK,UK	accommodation_description_id	int(10)	NOT NULL	for unique identification
airbnb	accommodationdescriptions	TBL	2		description	text(65535)	NULL	short description of the accommodations
airbnb	accommodationimages	TBL	1	PK,UK	accommodation_image_id	int(10)	NOT NULL	for unique identification
airbnb	accommodationimages	TBL	2		image	varchar(35)	NULL	"image" of the accommodations
airbnb	accommodationroomtypes	TBL	1	PK,UK	accommodation_room_type_id	int(10)	NOT NULL	for unique identification
airbnb	accommodationroomtypes	TBL	2		roomType	varchar(35)	NULL	room type
airbnb	accommodations	TBL	1	PK,UK	accommodation_id	int(10)	NOT NULL	for unique identification
airbnb	accommodations	TBL	2		price_per_night	decimal(10,0)	NULL	price_per_night
airbnb	accommodations	TBL	3		room_count	int(10)	NULL	number of bedrooms
airbnb	accommodations	TBL	4		bed_count	int(10)	NULL	number of beds
airbnb	accommodations	TBL	5	FK	accommodation_adresse_id	int(10)	NULL	reference to acc.adresses
airbnb	accommodations	TBL	6	FK	accommodation_amenitie_id	int(10)	NULL	reference to acc.aemenities
airbnb	accommodations	TBL	7	FK	accommodation_description_id	int(10)	NULL	reference to acc.descriptions
airbnb	accommodations	TBL	8	FK	accommodation_image_id	int(10)	NULL	reference to acc.images
airbnb	accommodations	TBL	9	FK	accommodation_room_type_id	int(10)	NULL	reference to acc.roomtypes
airbnb	accommodations	TBL	10	FK	accommodation_type_id	int(10)	NULL	reference to acc.types
airbnb	accommodations	TBL	11	FK	host_id	int(10)	NULL	reference to hostess
airbnb	accommodations	TBL	12	FK	review_id	int(10)	NULL	reference to reviews
airbnb	accommodations	TBL	13	FK	currency_id	int(10)	NULL	reference to currencies
airbnb	accommodations	TBL	14	FK	promo_code_id	int(10)	NULL	reference to promocodes
airbnb	accommodationtypes	TBL	1	PK,UK	accommodation_type_id	int(10)	NOT NULL	for unique identification
airbnb	accommodationtypes	TBL	2		type	varchar(35)	NULL	acc.types
airbnb	adresses	TBL	1	PK,UK	adress_id	int(10)	NOT NULL	for unique identification
airbnb	adresses	TBL	2		street_name	varchar(35)	NULL	street name
airbnb	adresses	TBL	3		house_number	varchar(10)	NULL	house number
airbnb	adresses	TBL	4	FK	city_id	int(10)	NULL	reference to city
airbnb	adresses	TBL	5	FK	country_id	int(10)	NULL	reference to country
airbnb	bookings	TBL	1	PK,UK	booking_id	int(10)	NOT NULL	for unique identification
airbnb	bookings	TBL	2		start_date	date(3)	NULL	start date of the booking
airbnb	bookings	TBL	3		end_date	date(3)	NULL	end date of the booking
airbnb	bookings	TBL	4		num_nights	int(10)	NULL	number of nights
airbnb	bookings	TBL	5	FK	accommodation_id	int(10)	NULL	reference to accommodations
airbnb	bookings	TBL	6	FK	user_id	int(10)	NULL	reference to users

airbnb	cities	TBL	1	PK,UK	city_id	int(10)	NOT NULL	for unique identification
airbnb	cities	TBL	2		city_name	varchar(35)	NULL	name of the city
airbnb	cities	TBL	3	FK	country_id	int(10)	NULL	reference to country
airbnb	countries	TBL	1	PK,UK	country_id	int(10)	NOT NULL	for unique identification
airbnb	countries	TBL	2	UK	country_code	varchar(3)	NULL	country code
airbnb	countries	TBL	3		country_name	varchar(35)	NULL	name of the country
airbnb	currencies	TBL	1	PK,UK	currency_id	int(10)	NOT NULL	for unique identification
airbnb	currencies	TBL	2		currency_name	varchar(35)	NULL	name of the currency
airbnb	currencies	TBL	3		exchange_rate	decimal(10,0)	NULL	exchange rate
airbnb	hostess	TBL	1	PK,UK	host_id	int(10)	NOT NULL	for unique identification
airbnb	hostess	TBL	2	FK	user_id	int(10)	NULL	reference to users
airbnb	hostess	TBL	3	FK	language_id	int(10)	NULL	reference to languages
airbnb	languages	TBL	1	PK,UK	language_id	int(10)	NOT NULL	for unique identification
airbnb	languages	TBL	2		language_name	varchar(35)	NULL	name of the language
airbnb	promocodes	TBL	1	PK,UK	promo_code_id	int(10)	NOT NULL	for unique identification
airbnb	promocodes	TBL	2	UK	promo_code	varchar(35)	NULL	promo code
airbnb	promocodes	TBL	3		discount	int(10)	NULL	the discount of the promo code
airbnb	reviewbodys	TBL	1	PK,UK	review_body_id	int(10)	NOT NULL	for unique identification
airbnb	reviewbodys	TBL	2		reviewbBody	text(65535)	NULL	review body
airbnb	reviewratings	TBL	1	PK,UK	review_rating_id	int(10)	NOT NULL	for unique identification
airbnb	reviewratings	TBL	2		reviewRating	decimal(1,1)	NULL	review rating
airbnb	reviews	TBL	1	PK,UK	review_id	int(10)	NOT NULL	for unique identification
airbnb	reviews	TBL	2	FK	review_rating_id	int(10)	NULL	reference to reviewRating
airbnb	reviews	TBL	3	FK	review_body_id	int(10)	NULL	reference to reviewBody
airbnb	transactions	TBL	1	PK,UK	transaction_id	int(10)	NOT NULL	for unique identification
airbnb	transactions	TBL	2		payment_date	date(3)	NULL	date of the payment
airbnb	transactions	TBL	3		transfer_date	date(3)	NULL	date of the transfer
airbnb	transactions	TBL	4		amount	decimal(10,0)	NULL	total amount of the transaction
airbnb	transactions	TBL	5	FK	user_id	int(10)	NULL	reference to users
airbnb	transactions	TBL	6	FK	host_id	int(10)	NULL	reference to hostess
airbnb	transactions	TBL	7	FK	booking_id	int(10)	NULL	reference to bookings
airbnb	users	TBL	1	PK,UK	user_id	int(10)	NOT NULL	for unique identification
airbnb	users	TBL	2		first_name	varchar(35)	NULL	firstname
airbnb	users	TBL	3		last_name	varchar(35)	NULL	lastname
airbnb	users	TBL	4	UK	email	varchar(35)	NOT NULL	emailadress
airbnb	users	TBL	5		date_of_birth	date(3)	NULL	date of birth
airbnb	users	TBL	6	FK	adress_id	int(10)	NULL	reference to adresses

Development Phase

Project: Build a Data Mart in SQL

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Airbnb Project database Structure and Inserts

Accommodation Images Entity

```sql
create table if not exists AccommodationImages (
    accommodation_image_id int unique not null auto_increment,
    image varchar(35),
    primary key(accommodation_image_id)
);
```

This Statement will create a table for the Images of the Accommodations. I will use varchar as an alternative for replacing the images.

```sql
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete");
select*from accommodationimages;
```

These Statements will insert 20 Images to the Table. In addition to that the select all statement verifies if all 20 Images were inserted.

accommodation_image_id	image
1	Lorem ipsum dolor sit amet, consete
2	Lorem ipsum dolor sit amet, consete
3	Lorem ipsum dolor sit amet, consete
4	Lorem ipsum dolor sit amet, consete
5	Lorem ipsum dolor sit amet, consete
6	Lorem ipsum dolor sit amet, consete
7	Lorem ipsum dolor sit amet, consete
8	Lorem ipsum dolor sit amet, consete
9	Lorem ipsum dolor sit amet, consete
10	Lorem ipsum dolor sit amet, consete
11	Lorem ipsum dolor sit amet, consete
12	Lorem ipsum dolor sit amet, consete
13	Lorem ipsum dolor sit amet, consete
14	Lorem ipsum dolor sit amet, consete
15	Lorem ipsum dolor sit amet, consete
16	Lorem ipsum dolor sit amet, consete
17	Lorem ipsum dolor sit amet, consete
18	Lorem ipsum dolor sit amet, consete
19	Lorem ipsum dolor sit amet, consete
20	Lorem ipsum dolor sit amet, consete

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.016 sec
2	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.016 sec
3	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
4	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.015 sec
5	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
6	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.016 sec
7	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
8	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.016 sec
9	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
10	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
11	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
12	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
13	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
14	16:36:36	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
15	16:36:37	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
16	16:36:37	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
17	16:36:37	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
18	16:36:37	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
19	16:36:37	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec
20	16:36:37	insert into accommodationimages (image) values ("Lorem ipsum dolor sit amet, consete")	1 row(s) affected	0.000 sec

Output

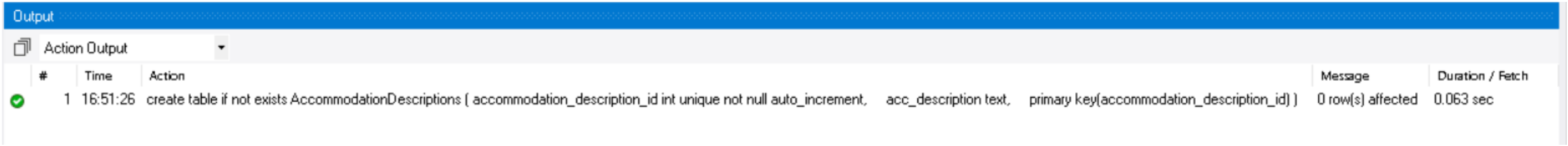
Action Output

#	Time	Action	Message	Duration / Fetch
1	16:40:53	select*from accommodationimages LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Accommodation Descriptions Entity

```sql
create table if not exists AccommodationDescriptions (
    accommodation_description_id int unique not null auto_increment,
    acc_description text,
    primary key(accommodation_description_id)
);
```

This Statement creates a Table for the Descriptions of the Accommodations.



```
1  insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr,
2  sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.
3  At vero eos et accusam et justo duo dolores et ea rebum.
4  Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.
5  Lorem ipsum dolor sit amet, consetetur ");
6  select*from accommodationdescriptions;
```

This Statement will be executed 20 Times and will insert in total 20 Descriptions to the Table. In addition to that the select all statement verifies if all 20 Descriptions were inserted.

accommodation_description_id	acc_description
1	Lorem ipsum dolor sit amet, consetetur sadipsci...
2	Lorem ipsum dolor sit amet, consetetur sadipsci...
3	Lorem ipsum dolor sit amet, consetetur sadipsci...
4	Lorem ipsum dolor sit amet, consetetur sadipsci...
5	Lorem ipsum dolor sit amet, consetetur sadipsci...
6	Lorem ipsum dolor sit amet, consetetur sadipsci...
7	Lorem ipsum dolor sit amet, consetetur sadipsci...
8	Lorem ipsum dolor sit amet, consetetur sadipsci...
9	Lorem ipsum dolor sit amet, consetetur sadipsci...
10	Lorem ipsum dolor sit amet, consetetur sadipsci...
11	Lorem ipsum dolor sit amet, consetetur sadipsci...
12	Lorem ipsum dolor sit amet, consetetur sadipsci...
13	Lorem ipsum dolor sit amet, consetetur sadipsci...
14	Lorem ipsum dolor sit amet, consetetur sadipsci...
15	Lorem ipsum dolor sit amet, consetetur sadipsci...
16	Lorem ipsum dolor sit amet, consetetur sadipsci...
17	Lorem ipsum dolor sit amet, consetetur sadipsci...
18	Lorem ipsum dolor sit amet, consetetur sadipsci...
19	Lorem ipsum dolor sit amet, consetetur sadipsci...
20	Lorem ipsum dolor sit amet, consetetur sadipsci...

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:57:46	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.000 sec
2	16:57:46	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
3	16:57:47	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
4	16:57:48	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
5	16:57:48	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.000 sec
6	16:57:49	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.032 sec
7	16:57:50	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
8	16:57:50	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.000 sec
9	16:57:51	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
10	16:57:51	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.031 sec
11	16:57:52	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
12	16:57:53	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
13	16:57:53	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
14	16:57:54	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.047 sec
15	16:57:54	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.047 sec
16	16:57:55	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
17	16:57:56	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.000 sec
18	16:57:56	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.031 sec
19	16:57:57	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec
20	16:57:58	insert into accommodationdescriptions (acc_description) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliqu...	1 row(s) affected	0.016 sec

Output

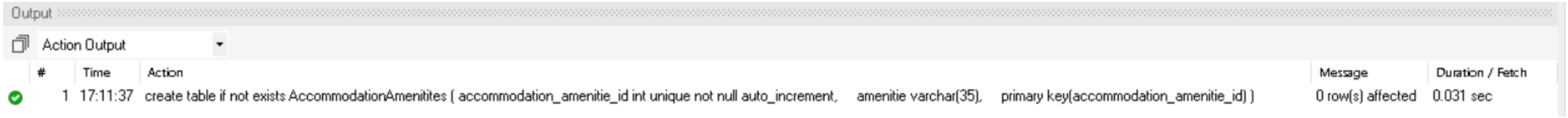
Action Output

#	Time	Action	Message	Duration / Fetch
1	16:59:32	select*from accommodationdescriptions LIMIT 0, 10000	20 row(s) return...	0.000 sec / 0.000 sec

Accommodation Amenities Entity

```sql
create table if not exists AccommodationAmenitites (
    accommodation_amenitie_id int unique not null auto_increment,
    amenitie varchar(35),
    primary key(accommodation_amenitie_id)
);
```

This Statement creates a Table for the Amenities of the Accommodations.



```sql
insert into accommodationamenitites (amenitie) values ("air conditioning");
insert into accommodationamenitites (amenitie) values ("hair dryer");
insert into accommodationamenitites (amenitie) values ("iron");
insert into accommodationamenitites (amenitie) values ("Dryer");
insert into accommodationamenitites (amenitie) values ("TV");
insert into accommodationamenitites (amenitie) values ("Indoor fireplace");
insert into accommodationamenitites (amenitie) values ("private entrance");
insert into accommodationamenitites (amenitie) values ("kitchen");
insert into accommodationamenitites (amenitie) values ("Heating");
insert into accommodationamenitites (amenitie) values ("Hangers");
insert into accommodationamenitites (amenitie) values ("washer");
insert into accommodationamenitites (amenitie) values ("hot water");
insert into accommodationamenitites (amenitie) values ("cable tv");
insert into accommodationamenitites (amenitie) values ("private bathroom");
insert into accommodationamenitites (amenitie) values ("private living room");
insert into accommodationamenitites (amenitie) values ("Wifi");
insert into accommodationamenitites (amenitie) values ("Self check-in");
insert into accommodationamenitites (amenitie) values ("free parking");
insert into accommodationamenitites (amenitie) values ("Laptop-friendly workspaces");
insert into accommodationamenitites (amenitie) values ("Instant Book");
select*from accommodationamenitites;
```

These Statements will insert 20 Amenities to the Table. In addition to that the select all statement verifies if all 20 Amenities were inserted.

accommodation_amenitie_id	amenitie
1	air conditioning
2	hair dryer
3	iron
4	Dryer
5	TV
6	Indoor fireplace
7	private entrance
8	kitchen
9	Heating
10	Hangers
11	washer
12	hot water
13	cable tv
14	private bathroom
15	private living room
16	Wifi
17	Self check-in
18	free parking
19	Laptop-friendly ...
20	Instant Book

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:13:44	insert into accommodationamenitites (amenitie) values (''air conditioning'')	1 row(s) affected	0.015 sec
2	17:13:44	insert into accommodationamenitites (amenitie) values (''hair dryer'')	1 row(s) affected	0.016 sec
3	17:13:44	insert into accommodationamenitites (amenitie) values (''iron'')	1 row(s) affected	0.000 sec
4	17:13:44	insert into accommodationamenitites (amenitie) values (''Dryer'')	1 row(s) affected	0.000 sec
5	17:13:44	insert into accommodationamenitites (amenitie) values (''TV'')	1 row(s) affected	0.000 sec
6	17:13:44	insert into accommodationamenitites (amenitie) values (''Indoor fireplace'')	1 row(s) affected	0.000 sec
7	17:13:44	insert into accommodationamenitites (amenitie) values (''private entrance'')	1 row(s) affected	0.000 sec
8	17:13:44	insert into accommodationamenitites (amenitie) values (''kitchen'')	1 row(s) affected	0.000 sec
9	17:13:44	insert into accommodationamenitites (amenitie) values (''Heating'')	1 row(s) affected	0.000 sec
10	17:13:44	insert into accommodationamenitites (amenitie) values (''Hangers'')	1 row(s) affected	0.000 sec
11	17:13:44	insert into accommodationamenitites (amenitie) values (''washer'')	1 row(s) affected	0.000 sec
12	17:13:44	insert into accommodationamenitites (amenitie) values (''hot water'')	1 row(s) affected	0.000 sec
13	17:13:44	insert into accommodationamenitites (amenitie) values (''cable tv'')	1 row(s) affected	0.000 sec
14	17:13:44	insert into accommodationamenitites (amenitie) values (''private bathroom'')	1 row(s) affected	0.000 sec
15	17:13:44	insert into accommodationamenitites (amenitie) values (''private living room'')	1 row(s) affected	0.000 sec
16	17:13:44	insert into accommodationamenitites (amenitie) values (''Wifi'')	1 row(s) affected	0.000 sec
17	17:13:44	insert into accommodationamenitites (amenitie) values (''Self check-in'')	1 row(s) affected	0.000 sec
18	17:13:44	insert into accommodationamenitites (amenitie) values (''free parking'')	1 row(s) affected	0.000 sec
19	17:13:44	insert into accommodationamenitites (amenitie) values (''Laptop-friendly workspaces'')	1 row(s) affected	0.016 sec
20	17:13:44	insert into accommodationamenitites (amenitie) values (''Instant Book'')	1 row(s) affected	0.000 sec

Output

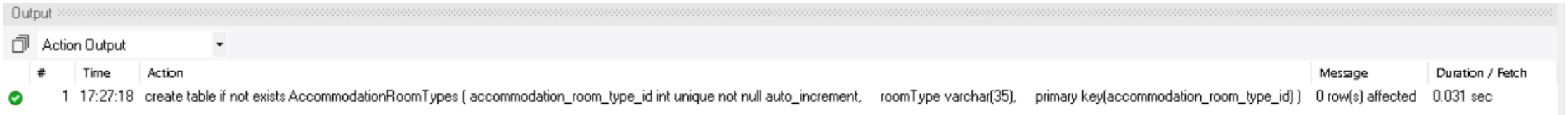
Action Output

#	Time	Action	Message	Duration / Fetch
1	17:15:39	select*from accommodationamenitites LIMIT 0, 10000	20 row(s) return...	0.000 sec / 0.000 sec

Accommodation Room Types Entity

```sql
create table if not exists AccommodationRoomTypes (
    accommodation_room_type_id int unique not null auto_increment,
    roomType varchar(35),
    primary key(accommodation_room_type_id)
);
```

This Statement creates a Table for the available Room Types for the Accommodations.



```
1 • insert into accommodationroomtypes (roomType) values ("Entire place");
2 • insert into accommodationroomtypes (roomType) values ("Private rooms");
3 • insert into accommodationroomtypes (roomType) values ("Hotel rooms");
4 • insert into accommodationroomtypes (roomType) values ("Shared rooms");
5 • select*from accommodationroomtypes;
```

accommodation_room_type_id	roomType
1	Entire place
2	Private rooms
3	Hotel rooms
4	Shared rooms
NULL	NULL

These Statements will insert all the available Room Types to the Table. In addition to that the select all statement verifies if all Room Types were inserted. As there are simply no more Room types than these four, it is not possible to insert 20 entities.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:28:31	insert into accommodationroomtypes (roomType) values (''Entire place'')	1 row(s) affected	0.063 sec
2	17:28:31	insert into accommodationroomtypes (roomType) values (''Private rooms'')	1 row(s) affected	0.000 sec
3	17:28:31	insert into accommodationroomtypes (roomType) values (''Hotel rooms'')	1 row(s) affected	0.000 sec
4	17:28:31	insert into accommodationroomtypes (roomType) values (''Shared rooms'')	1 row(s) affected	0.016 sec

Output

Action Output

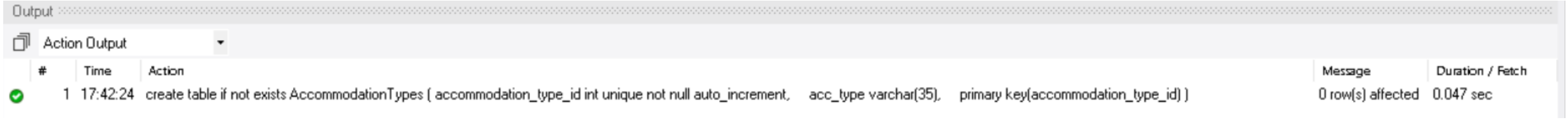
#	Time	Action	Message	Duration / Fetch
1	17:29:15	select*from accommodationroomtypes LIMIT 0, 10000	4 row(s) returned	0.000 sec / 0.000 sec

Accommodation Types Entity

```sql
create table if not exists AccommodationTypes (
    accommodation_type_id int unique not null auto_increment,
    acc_type varchar(35),
    primary key(accommodation_type_id)
);

```

This Statement creates a Table for the available Types of Accommodations.



```sql
insert into accommodationtypes (acc_type) values("Hotel");
insert into accommodationtypes (acc_type) values("Shared Property");
insert into accommodationtypes (acc_type) values("Private Property");
select * from accommodationtypes;
```

accommodation_type_id	acc_type
1	Hotel
2	Shared Property
3	Private Property
NULL	NULL

These Statements will insert all the available Types of Accommodations to the Table. In addition to that the select all statement verifies if all Types were inserted. As there are simply no more Accommodation types than these three, it is not possible to insert 20 entities.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:44:00	insert into accommodationtypes (acc_type) values("Hotel")	1 row(s) affected	0.047 sec
2	17:44:00	insert into accommodationtypes (acc_type) values("Shared Property")	1 row(s) affected	0.015 sec
3	17:44:00	insert into accommodationtypes (acc_type) values("Private Property")	1 row(s) affected	0.000 sec

Output

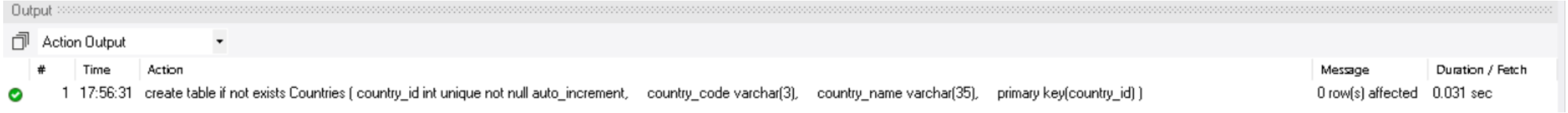
Action Output

#	Time	Action	Message	Duration / Fetch
1	17:44:31	select * from accommodationtypes LIMIT 0, 10000	3 row(s) returned	0.000 sec / 0.000 sec

Countries Entity

```sql
create table if not exists Countries (
    country_id int unique not null auto_increment,
    country_code varchar(3),
    country_name varchar(35),
    primary key(country_id)
);
```

This Statement creates a Table for the Countries.



```sql
insert into countries (country_code,country_name) values ("NLD","Netherlands");
insert into countries (country_code,country_name) values ("ESP","Spain");
insert into countries (country_code,country_name) values ("THA","Thailand");
insert into countries (country_code,country_name) values ("AUS","Australia");
insert into countries (country_code,country_name) values ("ROU","Romania");
insert into countries (country_code,country_name) values ("CHN","China");
insert into countries (country_code,country_name) values ("USA","United States of America");
insert into countries (country_code,country_name) values ("LUX","Luxembourg");
insert into countries (country_code,country_name) values ("MEX","Mexico");
insert into countries (country_code,country_name) values ("VUT","Vanuatu");
insert into countries (country_code,country_name) values ("COL","Colombia");
insert into countries (country_code,country_name) values ("SCO","Scotland");
insert into countries (country_code,country_name) values ("CAN","Canada");
insert into countries (country_code,country_name) values ("BRA","Brazil");
insert into countries (country_code,country_name) values ("FRA","France");
insert into countries (country_code,country_name) values ("JPN","Japan");
insert into countries (country_code,country_name) values ("IND","India");
insert into countries (country_code,country_name) values ("KEN","Kenya");
insert into countries (country_code,country_name) values ("DEU","Germany");
insert into countries (country_code,country_name) values ("BEL","Belgium");
select*from countries;
```

These Statements will insert all the countries to the Table. In addition to that the select all statement verifies if all Countries were inserted.

country_id	country_code	country_name
1	NLD	Netherlands
2	ESP	Spain
3	THA	Thailand
4	AUS	Australia
5	ROU	Romania
6	CHN	China
7	USA	United States of America
8	LUX	Luxembourg
9	MEX	Mexico
10	VUT	Vanuatu
11	COL	Colombia
12	SCO	Scotland
13	CAN	Canada
14	BRA	Brazil
15	FRA	France
16	JPN	Japan
17	IND	India
18	KEN	Kenya
19	DEU	Germany
20	BEL	Belgium

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:58:41	insert into countries (country_code,country_name) values (''NLD'','Netherlands'')	1 row(s) affected	0.016 sec
2	17:58:41	insert into countries (country_code,country_name) values (''ESP'','Spain'')	1 row(s) affected	0.000 sec
3	17:58:41	insert into countries (country_code,country_name) values (''THA'','Thailand'')	1 row(s) affected	0.000 sec
4	17:58:41	insert into countries (country_code,country_name) values (''AUS'','Australia'')	1 row(s) affected	0.000 sec
5	17:58:41	insert into countries (country_code,country_name) values (''ROU'','Romania'')	1 row(s) affected	0.000 sec
6	17:58:41	insert into countries (country_code,country_name) values (''CHN'','China'')	1 row(s) affected	0.000 sec
7	17:58:41	insert into countries (country_code,country_name) values (''USA'','United States of America'')	1 row(s) affected	0.000 sec
8	17:58:41	insert into countries (country_code,country_name) values (''LUX'','Luxembourg'')	1 row(s) affected	0.000 sec
9	17:58:41	insert into countries (country_code,country_name) values (''MEX'','Mexico'')	1 row(s) affected	0.000 sec
10	17:58:41	insert into countries (country_code,country_name) values (''VUT'','Vanuatu'')	1 row(s) affected	0.016 sec
11	17:58:41	insert into countries (country_code,country_name) values (''COL'','Colombia'')	1 row(s) affected	0.000 sec
12	17:58:41	insert into countries (country_code,country_name) values (''SCO'','Scotland'')	1 row(s) affected	0.015 sec
13	17:58:41	insert into countries (country_code,country_name) values (''CAN'','Canada'')	1 row(s) affected	0.000 sec
14	17:58:41	insert into countries (country_code,country_name) values (''BRA'','Brazil'')	1 row(s) affected	0.000 sec
15	17:58:41	insert into countries (country_code,country_name) values (''FRA'','France'')	1 row(s) affected	0.000 sec
16	17:58:41	insert into countries (country_code,country_name) values (''JPN'','Japan'')	1 row(s) affected	0.000 sec
17	17:58:41	insert into countries (country_code,country_name) values (''IND'','India'')	1 row(s) affected	0.000 sec
18	17:58:41	insert into countries (country_code,country_name) values (''KEN'','Kenya'')	1 row(s) affected	0.000 sec
19	17:58:41	insert into countries (country_code,country_name) values (''DEU'','Germany'')	1 row(s) affected	0.000 sec
20	17:58:41	insert into countries (country_code,country_name) values (''BEL'','Belgium'')	1 row(s) affected	0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:59:41	select*from countries LIMIT 0, 10000	20 row(s) return...	0.016 sec / 0.000 sec

Cities Entity

```sql
create table if not exists Cities (
    city_id int unique not null auto_increment,
    city_name varchar(35),
    country_id int,
    primary key(city_id),
    foreign key(country_id) references Countries(country_id)
);
```

This Statement creates a Table for the Cities.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:10:36	create table if not exists Cities (city_id int unique not null auto_increment, city_name varchar(35), country_id int, primary key(city_id), foreign key(country_id) references Countries(count...	0 row(s) affected	0.031 sec

```sql
insert into cities (city_name,country_id) values ("Milwaukee",7);
insert into cities (city_name,country_id) values ("Bilbao",2);
insert into cities (city_name,country_id) values ("Buriram",3);
insert into cities (city_name,country_id) values ("Sunbury",4);
insert into cities (city_name,country_id) values ("Xi'an",6);
insert into cities (city_name,country_id) values ("Eugene",7);
insert into cities (city_name,country_id) values ("Luxembourg",8);
insert into cities (city_name,country_id) values ("Bucharest",5);
insert into cities (city_name,country_id) values ("Guadalajara",9);
insert into cities (city_name,country_id) values ("Efate",10);
insert into cities (city_name,country_id) values ("Cali",11);
insert into cities (city_name,country_id) values ("Cape Canaveral",7);
insert into cities (city_name,country_id) values ("Aberdeen",12);
insert into cities (city_name,country_id) values ("Courtenay",13);
insert into cities (city_name,country_id) values ("Ubatuba",14);
insert into cities (city_name,country_id) values ("Les Contamines-Montjoie",15);
insert into cities (city_name,country_id) values ("Tokyo",16);
insert into cities (city_name,country_id) values ("Kerala",17);
insert into cities (city_name,country_id) values ("Malindi",18);
insert into cities (city_name,country_id) values ("Maastricht",1);
select*from cities;
```

These Statements will insert all the Cities to the Table. In addition to that the select all statement verifies if all Cities were inserted.

city_id	city_name	country_id
1	Milwaukee	7
2	Bilbao	2
3	Buriram	3
4	Sunbury	4
5	Xi'an	6
6	Eugene	7
7	Luxembourg	8
8	Bucharest	5
9	Guadalajara	9
10	Efate	10
11	Cali	11
12	Cape Cana...	7
13	Aberdeen	12
14	Courtenay	13
15	Ubatuba	14
16	Les Contam...	15
17	Tokyo	16
18	Kerala	17
19	Malindi	18
20	Maastricht	1

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:12:10	insert into cities (city_name,country_id) values (''Milwaukee'',7)	1 row(s) affected	0.015 sec
2	18:12:10	insert into cities (city_name,country_id) values (''Bilbao'',2)	1 row(s) affected	0.016 sec
3	18:12:10	insert into cities (city_name,country_id) values (''Buriram'',3)	1 row(s) affected	0.000 sec
4	18:12:10	insert into cities (city_name,country_id) values (''Sunbury'',4)	1 row(s) affected	0.000 sec
5	18:12:10	insert into cities (city_name,country_id) values (''Xi'an'',6)	1 row(s) affected	0.000 sec
6	18:12:10	insert into cities (city_name,country_id) values (''Eugene'',7)	1 row(s) affected	0.015 sec
7	18:12:10	insert into cities (city_name,country_id) values (''Luxembourg'',8)	1 row(s) affected	0.000 sec
8	18:12:10	insert into cities (city_name,country_id) values (''Bucharest'',5)	1 row(s) affected	0.016 sec
9	18:12:10	insert into cities (city_name,country_id) values (''Guadalajara'',9)	1 row(s) affected	0.000 sec
10	18:12:10	insert into cities (city_name,country_id) values (''Efate'',10)	1 row(s) affected	0.015 sec
11	18:12:10	insert into cities (city_name,country_id) values (''Cali'',11)	1 row(s) affected	0.000 sec
12	18:12:10	insert into cities (city_name,country_id) values (''Cape Canaveral'',7)	1 row(s) affected	0.000 sec
13	18:12:10	insert into cities (city_name,country_id) values (''Aberdeen'',12)	1 row(s) affected	0.000 sec
14	18:12:10	insert into cities (city_name,country_id) values (''Courtenay'',13)	1 row(s) affected	0.000 sec
15	18:12:10	insert into cities (city_name,country_id) values (''Ubatuba'',14)	1 row(s) affected	0.000 sec
16	18:12:10	insert into cities (city_name,country_id) values (''Les Contamines-Montjoie'',15)	1 row(s) affected	0.000 sec
17	18:12:10	insert into cities (city_name,country_id) values (''Tokyo'',16)	1 row(s) affected	0.000 sec
18	18:12:10	insert into cities (city_name,country_id) values (''Kerala'',17)	1 row(s) affected	0.000 sec
19	18:12:10	insert into cities (city_name,country_id) values (''Malindi'',18)	1 row(s) affected	0.000 sec
20	18:12:10	insert into cities (city_name,country_id) values (''Maastricht'',1)	1 row(s) affected	0.000 sec

Output

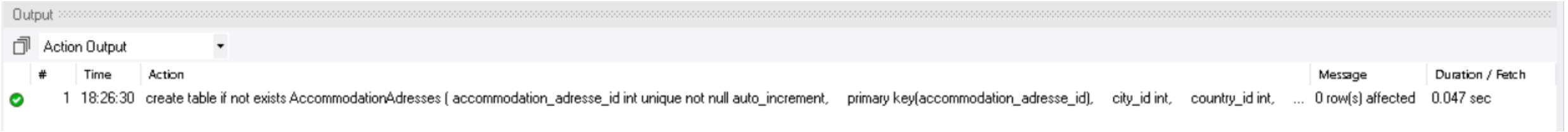
Action Output

#	Time	Action	Message	Duration / Fetch
1	18:12:51	select*from cities LIMIT 0, 10000	20 row(s) return...	0.016 sec / 0.000 sec

Accommodation Addresses Entity

```sql
create table if not exists AccommodationAdresses (
    accommodation_adresse_id int unique not null auto_increment,
    primary key(accommodation_adresse_id),
    city_id int,
    country_id int,
    street_name varchar(35),
    house_number varchar(3),
    foreign key(city_id) references Cities(city_id),
    foreign key(country_id) references Countries(country_id)
);
```

This Statement creates a Table for the Addresses of the Accommodations.



```sql
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_1","01",1);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_2","02",2);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_3","03",3);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_4","04",4);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_5","05",5);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_6","06",7);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_7","07",8);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_8","08",9);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_9","09",10);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_10","10",11);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_11","11",12);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_12","12",13);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_13","13",14);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_14","14",15);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_15","15",16);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_16","16",17);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_17","17",18);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_18","18",19);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_19","19",20);
insert into accommodationadresses (street_name,house_number,city_id) values ("street_number_20","20",6);
select*from accommodationadresses;
```

These Statements will insert all the Addresses of the Accommodations to the Table. In addition to that the select all statement verifies if all Addresses were inserted.

accommodation_adresse_id	city_id	country_id	street_name	house_number
1	1	NULL	street_number_1	01
2	2	NULL	street_number_2	02
3	3	NULL	street_number_3	03
4	4	NULL	street_number_4	04
5	5	NULL	street_number_5	05
6	7	NULL	street_number_6	06
7	8	NULL	street_number_7	07
8	9	NULL	street_number_8	08
9	10	NULL	street_number_9	09
10	11	NULL	street_number_10	10
11	12	NULL	street_number_11	11
12	13	NULL	street_number_12	12
13	14	NULL	street_number_13	13
14	15	NULL	street_number_14	14
15	16	NULL	street_number_15	15
16	17	NULL	street_number_16	16
17	18	NULL	street_number_17	17
18	19	NULL	street_number_18	18
19	20	NULL	street_number_19	19
20	6	NULL	street_number_20	20

Output

Action Output

#	Time		Message	Duration / Fetch
1	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_1'',''01'',1)	1 row(s) affected	0.016 sec
2	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_2'',''02'',2)	1 row(s) affected	0.000 sec
3	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_3'',''03'',3)	1 row(s) affected	0.000 sec
4	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_4'',''04'',4)	1 row(s) affected	0.000 sec
5	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_5'',''05'',5)	1 row(s) affected	0.000 sec
6	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_6'',''06'',7)	1 row(s) affected	0.000 sec
7	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_7'',''07'',8)	1 row(s) affected	0.000 sec
8	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_8'',''08'',9)	1 row(s) affected	0.000 sec
9	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_9'',''09'',10)	1 row(s) affected	0.000 sec
10	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_10'',''10'',11)	1 row(s) affected	0.000 sec
11	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_11'',''11'',12)	1 row(s) affected	0.000 sec
12	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_12'',''12'',13)	1 row(s) affected	0.000 sec
13	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_13'',''13'',14)	1 row(s) affected	0.000 sec
14	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_14'',''14'',15)	1 row(s) affected	0.000 sec
15	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_15'',''15'',16)	1 row(s) affected	0.000 sec
16	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_16'',''16'',17)	1 row(s) affected	0.000 sec
17	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_17'',''17'',18)	1 row(s) affected	0.000 sec
18	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_18'',''18'',19)	1 row(s) affected	0.000 sec
19	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_19'',''19'',20)	1 row(s) affected	0.000 sec
20	18:27:46	insert into accommodationadresses (street_name,house_number,city_id) values (''street_number_20'',''20'',6)	1 row(s) affected	0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:28:34	select*from accommodationadresses LIMIT 0, 10000	20 row(s) return...	0.000 sec / 0.000 sec

```sql
update accommodationadresses join cities on accommodationadresses.city_id= cities.city_id
set accommodationadresses.country_id = cities.country_id;
```

This Statement updates the missing elements in the country column.

accommodation_adresse_id	city_id	country_id	street_name	house_number
1	1	7	street_number_1	01
2	2	2	street_number_2	02
3	3	3	street_number_3	03
4	4	4	street_number_4	04
5	5	6	street_number_5	05
6	7	8	street_number_6	06
7	8	5	street_number_7	07
8	9	9	street_number_8	08
9	10	10	street_number_9	09
10	11	11	street_number_10	10
11	12	7	street_number_11	11
12	13	12	street_number_12	12
13	14	13	street_number_13	13
14	15	14	street_number_14	14
15	16	15	street_number_15	15
16	17	16	street_number_16	16
17	18	17	street_number_17	17
18	19	18	street_number_18	18
19	20	1	street_number_19	19
20	6	7	street_number_20	20

Output

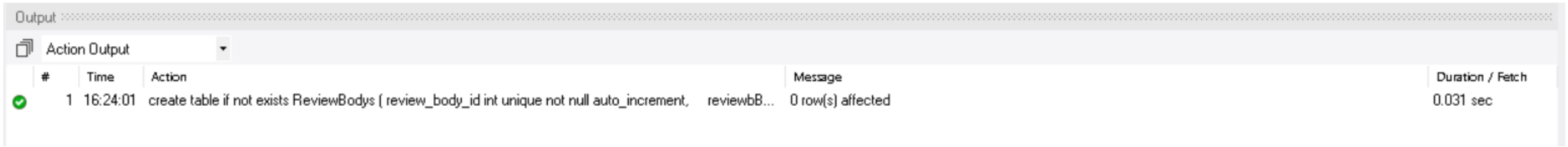
Action Output

#	Time	Action	Message	Duration / Fetch
1	18:35:18	update accommodationadresses join cities on accommodationadresses.city_id= cities.city_id set accommodationadresses.country_id = cities.country_id	20 row(s) affect...	0.047 sec

Review Body Entity

```
1  create table if not exists ReviewBodys (
2      review_body_id int unique not null auto_increment,
3      reviewbBody text,
4      primary key(review_body_id)
5  );
```

This Statement creates a Table for the Review Body's.



```
1  insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr,
2   sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.
3   At vero eos et accusam et justo duo dolores et ea rebum.
4   Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.
5   Lorem ipsum dolor sit amet, consetetur sadipscing elit");
6  select*from reviewbodys;
```

This Statement will be executed 20 Times and will insert in total 20 Review Body's to the Table. In addition to that the select all statement verifies if all 20 Body's were inserted.

review_body_id	reviewbBody
1	Lorem ipsum dolor sit amet, consetetur sadipsci...
2	Lorem ipsum dolor sit amet, consetetur sadipsci...
3	Lorem ipsum dolor sit amet, consetetur sadipsci...
4	Lorem ipsum dolor sit amet, consetetur sadipsci...
5	Lorem ipsum dolor sit amet, consetetur sadipsci...
6	Lorem ipsum dolor sit amet, consetetur sadipsci...
7	Lorem ipsum dolor sit amet, consetetur sadipsci...
8	Lorem ipsum dolor sit amet, consetetur sadipsci...
9	Lorem ipsum dolor sit amet, consetetur sadipsci...
10	Lorem ipsum dolor sit amet, consetetur sadipsci...
11	Lorem ipsum dolor sit amet, consetetur sadipsci...
12	Lorem ipsum dolor sit amet, consetetur sadipsci...
13	Lorem ipsum dolor sit amet, consetetur sadipsci...
14	Lorem ipsum dolor sit amet, consetetur sadipsci...
15	Lorem ipsum dolor sit amet, consetetur sadipsci...
16	Lorem ipsum dolor sit amet, consetetur sadipsci...
17	Lorem ipsum dolor sit amet, consetetur sadipsci...
18	Lorem ipsum dolor sit amet, consetetur sadipsci...
19	Lorem ipsum dolor sit amet, consetetur sadipsci...
20	Lorem ipsum dolor sit amet, consetetur sadipsci...

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:27:35	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
2	16:27:35	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.000 sec
3	16:27:36	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
4	16:27:36	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
5	16:27:37	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.015 sec
6	16:27:38	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
7	16:27:38	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.000 sec
8	16:27:39	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.000 sec
9	16:27:39	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.015 sec
10	16:27:40	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
11	16:27:41	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.015 sec
12	16:27:41	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.015 sec
13	16:27:42	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
14	16:27:42	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.031 sec
15	16:27:43	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.000 sec
16	16:27:44	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.032 sec
17	16:27:44	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.000 sec
18	16:27:45	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec
19	16:27:45	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.032 sec
20	16:27:46	insert into reviewbodys (reviewbBody) values ("Lorem ipsum dolor sit amet, consetetur sadipscing elitr, s...	1 row(s) affected	0.016 sec

Output

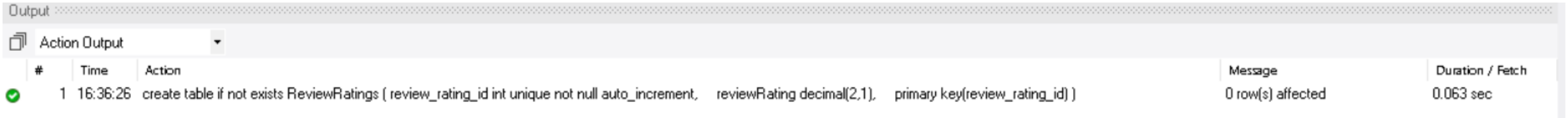
Action Output

#	Time	Action	Message	Duration / Fetch
1	16:28:31	select*from reviewbodys LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Review Ratings Entity

```sql
create table if not exists ReviewRatings (
    review_rating_id int unique not null auto_increment,
    reviewRating decimal(2,1),
    primary key(review_rating_id)
);
```

This Statement creates a Table for the Review Ratings.



```sql
insert into reviewratings (reviewRating) values (0.5);
insert into reviewratings (reviewRating) values (1);
insert into reviewratings (reviewRating) values (1.5);
insert into reviewratings (reviewRating) values (2);
insert into reviewratings (reviewRating) values (2.5);
insert into reviewratings (reviewRating) values (3);
insert into reviewratings (reviewRating) values (3.5);
insert into reviewratings (reviewRating) values (4);
insert into reviewratings (reviewRating) values (4.5);
insert into reviewratings (reviewRating) values (5);
insert into reviewratings (reviewRating) values (5.5);
insert into reviewratings (reviewRating) values (6);
insert into reviewratings (reviewRating) values (6.5);
insert into reviewratings (reviewRating) values (7);
insert into reviewratings (reviewRating) values (7.5);
insert into reviewratings (reviewRating) values (8);
insert into reviewratings (reviewRating) values (8.5);
insert into reviewratings (reviewRating) values (9);
insert into reviewratings (reviewRating) values (9.5);
insert into reviewratings (reviewRating) values (9.9);
select*from reviewratings;
```

These Statements will insert all the Review Ratings. In addition to that the select all statement verifies if all Review Body's were inserted.

review_rating_id	reviewRating
1	0.5
2	1.0
3	1.5
4	2.0
5	2.5
6	3.0
7	3.5
8	4.0
9	4.5
10	5.0
11	5.5
12	6.0
13	6.5
14	7.0
15	7.5
16	8.0
17	8.5
18	9.0
19	9.5
20	9.9

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:38:39	insert into reviewratings (reviewRating) values (0.5)	1 row(s) affected	0.000 sec
2	16:38:39	insert into reviewratings (reviewRating) values (1)	1 row(s) affected	0.016 sec
3	16:38:39	insert into reviewratings (reviewRating) values (1.5)	1 row(s) affected	0.000 sec
4	16:38:39	insert into reviewratings (reviewRating) values (2)	1 row(s) affected	0.000 sec
5	16:38:39	insert into reviewratings (reviewRating) values (2.5)	1 row(s) affected	0.000 sec
6	16:38:39	insert into reviewratings (reviewRating) values (3)	1 row(s) affected	0.000 sec
7	16:38:39	insert into reviewratings (reviewRating) values (3.5)	1 row(s) affected	0.000 sec
8	16:38:39	insert into reviewratings (reviewRating) values (4)	1 row(s) affected	0.000 sec
9	16:38:39	insert into reviewratings (reviewRating) values (4.5)	1 row(s) affected	0.000 sec
10	16:38:39	insert into reviewratings (reviewRating) values (5)	1 row(s) affected	0.000 sec
11	16:38:39	insert into reviewratings (reviewRating) values (5.5)	1 row(s) affected	0.000 sec
12	16:38:39	insert into reviewratings (reviewRating) values (6)	1 row(s) affected	0.000 sec
13	16:38:39	insert into reviewratings (reviewRating) values (6.5)	1 row(s) affected	0.000 sec
14	16:38:39	insert into reviewratings (reviewRating) values (7)	1 row(s) affected	0.000 sec
15	16:38:39	insert into reviewratings (reviewRating) values (7.5)	1 row(s) affected	0.000 sec
16	16:38:39	insert into reviewratings (reviewRating) values (8)	1 row(s) affected	0.000 sec
17	16:38:39	insert into reviewratings (reviewRating) values (8.5)	1 row(s) affected	0.000 sec
18	16:38:39	insert into reviewratings (reviewRating) values (9)	1 row(s) affected	0.000 sec
19	16:38:39	insert into reviewratings (reviewRating) values (9.5)	1 row(s) affected	0.000 sec
20	16:38:39	insert into reviewratings (reviewRating) values (9.9)	1 row(s) affected	0.000 sec

Output

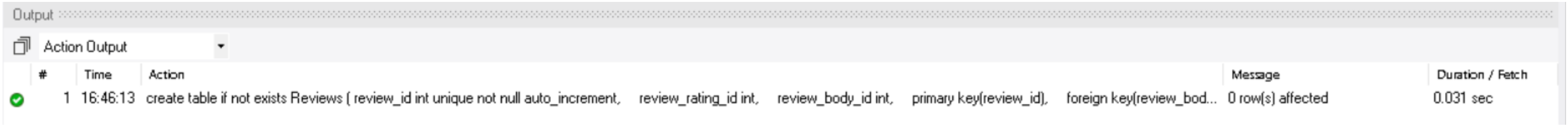
Action Output

#	Time	Action	Message	Duration / Fetch
1	16:39:18	select*from reviewratings LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Review Entity

```sql
create table if not exists Reviews (
    review_id int unique not null auto_increment,
    review_rating_id int,
    review_body_id int,
    primary key(review_id),
    foreign key(review_body_id) references ReviewBodys(review_body_id),
    foreign key(review_rating_id) references ReviewRatings(review_rating_id)
);
```

This Statement creates a Table for the Reviews.



```sql
insert into reviews (review_rating_id,review_body_id) values (1,1);
insert into reviews (review_rating_id,review_body_id) values (2,2);
insert into reviews (review_rating_id,review_body_id) values (3,3);
insert into reviews (review_rating_id,review_body_id) values (4,4);
insert into reviews (review_rating_id,review_body_id) values (5,5);
insert into reviews (review_rating_id,review_body_id) values (6,6);
insert into reviews (review_rating_id,review_body_id) values (7,7);
insert into reviews (review_rating_id,review_body_id) values (8,8);
insert into reviews (review_rating_id,review_body_id) values (9,9);
insert into reviews (review_rating_id,review_body_id) values (10,10);
insert into reviews (review_rating_id,review_body_id) values (11,11);
insert into reviews (review_rating_id,review_body_id) values (12,12);
insert into reviews (review_rating_id,review_body_id) values (13,13);
insert into reviews (review_rating_id,review_body_id) values (14,14);
insert into reviews (review_rating_id,review_body_id) values (15,15);
insert into reviews (review_rating_id,review_body_id) values (16,16);
insert into reviews (review_rating_id,review_body_id) values (17,17);
insert into reviews (review_rating_id,review_body_id) values (18,18);
insert into reviews (review_rating_id,review_body_id) values (19,19);
insert into reviews (review_rating_id,review_body_id) values (20,20);
select*from reviews;
```

These Statements will insert all the Reviews. In addition to that the select all statement verifies if all Reviews were inserted.

review_id	review_rating_id	review_body_id
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:47:31	insert into reviews (review_rating_id,review_body_id) values (1,1)	1 row(s) affected	0.031 sec
2	16:47:31	insert into reviews (review_rating_id,review_body_id) values (2,2)	1 row(s) affected	0.000 sec
3	16:47:31	insert into reviews (review_rating_id,review_body_id) values (3,3)	1 row(s) affected	0.000 sec
4	16:47:31	insert into reviews (review_rating_id,review_body_id) values (4,4)	1 row(s) affected	0.000 sec
5	16:47:31	insert into reviews (review_rating_id,review_body_id) values (5,5)	1 row(s) affected	0.000 sec
6	16:47:31	insert into reviews (review_rating_id,review_body_id) values (6,6)	1 row(s) affected	0.016 sec
7	16:47:31	insert into reviews (review_rating_id,review_body_id) values (7,7)	1 row(s) affected	0.000 sec
8	16:47:31	insert into reviews (review_rating_id,review_body_id) values (8,8)	1 row(s) affected	0.016 sec
9	16:47:31	insert into reviews (review_rating_id,review_body_id) values (9,9)	1 row(s) affected	0.000 sec
10	16:47:31	insert into reviews (review_rating_id,review_body_id) values (10,10)	1 row(s) affected	0.000 sec
11	16:47:31	insert into reviews (review_rating_id,review_body_id) values (11,11)	1 row(s) affected	0.000 sec
12	16:47:31	insert into reviews (review_rating_id,review_body_id) values (12,12)	1 row(s) affected	0.000 sec
13	16:47:31	insert into reviews (review_rating_id,review_body_id) values (13,13)	1 row(s) affected	0.000 sec
14	16:47:31	insert into reviews (review_rating_id,review_body_id) values (14,14)	1 row(s) affected	0.000 sec
15	16:47:31	insert into reviews (review_rating_id,review_body_id) values (15,15)	1 row(s) affected	0.000 sec
16	16:47:31	insert into reviews (review_rating_id,review_body_id) values (16,16)	1 row(s) affected	0.000 sec
17	16:47:31	insert into reviews (review_rating_id,review_body_id) values (17,17)	1 row(s) affected	0.000 sec
18	16:47:31	insert into reviews (review_rating_id,review_body_id) values (18,18)	1 row(s) affected	0.000 sec
19	16:47:31	insert into reviews (review_rating_id,review_body_id) values (19,19)	1 row(s) affected	0.000 sec
20	16:47:31	insert into reviews (review_rating_id,review_body_id) values (20,20)	1 row(s) affected	0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:48:05	select*from reviews LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Address Entity

```sql
create table if not exists Adresses (
    adress_id int unique not null auto_increment,
    street_name varchar(35),
    house_number varchar(3),
    city_id int,
    country_id int,
    primary key(adress_id),
    foreign key(city_id) references Cities(city_id),
    foreign key(country_id) references Countries(country_id)
);
```

This Statement creates a Table for the Addresses.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:35:45	create table if not exists Adresses (adress_id int unique not null auto_increment, street_name varchar(35), house_number varchar(3), city_id int, country_id int, primar...	0 row(s) affected	0.031 sec

```
1  insert into adresses (street_name,house_number,city_id) values ("street_name_1","01",1);
2  insert into adresses (street_name,house_number,city_id) values ("street_name_2","02",2);
3  insert into adresses (street_name,house_number,city_id) values ("street_name_3","03",3);
4  insert into adresses (street_name,house_number,city_id) values ("street_name_4","04",4);
5  insert into adresses (street_name,house_number,city_id) values ("street_name_5","05",5);
6  insert into adresses (street_name,house_number,city_id) values ("street_name_6","06",6);
7  insert into adresses (street_name,house_number,city_id) values ("street_name_7","07",7);
8  insert into adresses (street_name,house_number,city_id) values ("street_name_8","08",8);
9  insert into adresses (street_name,house_number,city_id) values ("street_name_9","09",9);
10 insert into adresses (street_name,house_number,city_id) values ("street_name_10","10",10);
11 insert into adresses (street_name,house_number,city_id) values ("street_name_11","11",11);
12 insert into adresses (street_name,house_number,city_id) values ("street_name_12","12",12);
13 insert into adresses (street_name,house_number,city_id) values ("street_name_13","13",13);
14 insert into adresses (street_name,house_number,city_id) values ("street_name_14","14",14);
15 insert into adresses (street_name,house_number,city_id) values ("street_name_15","15",15);
16 insert into adresses (street_name,house_number,city_id) values ("street_name_16","16",16);
17 insert into adresses (street_name,house_number,city_id) values ("street_name_17","17",17);
18 insert into adresses (street_name,house_number,city_id) values ("street_name_18","18",18);
19 insert into adresses (street_name,house_number,city_id) values ("street_name_19","19",19);
20 insert into adresses (street_name,house_number,city_id) values ("street_name_20","20",20);
21 select*from adresses;
```

These Statements will insert all the Addresses. In addition to that the select all statement verifies if all Addresses were inserted.

adress_id	street_name	house_number	city_id	country_id
1	street_name_1	01	1	NULL
2	street_name_2	02	2	NULL
3	street_name_3	03	3	NULL
4	street_name_4	04	4	NULL
5	street_name_5	05	5	NULL
6	street_name_6	06	6	NULL
7	street_name_7	07	7	NULL
8	street_name_8	08	8	NULL
9	street_name_9	09	9	NULL
10	street_name_10	10	10	NULL
11	street_name_11	11	11	NULL
12	street_name_12	12	12	NULL
13	street_name_13	13	13	NULL
14	street_name_14	14	14	NULL
15	street_name_15	15	15	NULL
16	street_name_16	16	16	NULL
17	street_name_17	17	17	NULL
18	street_name_18	18	18	NULL
19	street_name_19	19	19	NULL
20	street_name_20	20	20	NULL

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_1'',''01'',1)	1 row(s) affected	0.031 sec
2	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_2'',''02'',2)	1 row(s) affected	0.000 sec
3	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_3'',''03'',3)	1 row(s) affected	0.016 sec
4	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_4'',''04'',4)	1 row(s) affected	0.000 sec
5	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_5'',''05'',5)	1 row(s) affected	0.015 sec
6	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_6'',''06'',6)	1 row(s) affected	0.000 sec
7	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_7'',''07'',7)	1 row(s) affected	0.000 sec
8	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_8'',''08'',8)	1 row(s) affected	0.000 sec
9	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_9'',''09'',9)	1 row(s) affected	0.000 sec
10	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_10'',''10'',10)	1 row(s) affected	0.016 sec
11	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_11'',''11'',11)	1 row(s) affected	0.000 sec
12	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_12'',''12'',12)	1 row(s) affected	0.000 sec
13	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_13'',''13'',13)	1 row(s) affected	0.015 sec
14	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_14'',''14'',14)	1 row(s) affected	0.000 sec
15	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_15'',''15'',15)	1 row(s) affected	0.000 sec
16	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_16'',''16'',16)	1 row(s) affected	0.016 sec
17	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_17'',''17'',17)	1 row(s) affected	0.000 sec
18	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_18'',''18'',18)	1 row(s) affected	0.000 sec
19	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_19'',''19'',19)	1 row(s) affected	0.000 sec
20	17:37:11	insert into adresses (street_name,house_number,city_id) values (''street_name_20'',''20'',20)	1 row(s) affected	0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:37:46	select*from adresses LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

```
1 •  update adresses join cities on adresses.city_id= cities.city_id
2    set adresses.country_id = cities.country_id;
```

This Statement updates the missing elements in the country column.

adress_id	street_name	house_number	city_id	country_id
1	street_name_1	01	1	7
2	street_name_2	02	2	2
3	street_name_3	03	3	3
4	street_name_4	04	4	4
5	street_name_5	05	5	6
6	street_name_6	06	6	7
7	street_name_7	07	7	8
8	street_name_8	08	8	5
9	street_name_9	09	9	9
10	street_name_10	10	10	10
11	street_name_11	11	11	11
12	street_name_12	12	12	7
13	street_name_13	13	13	12
14	street_name_14	14	14	13
15	street_name_15	15	15	14
16	street_name_16	16	16	15
17	street_name_17	17	17	16
18	street_name_18	18	18	17
19	street_name_19	19	19	18
20	street_name_20	20	20	1

Output

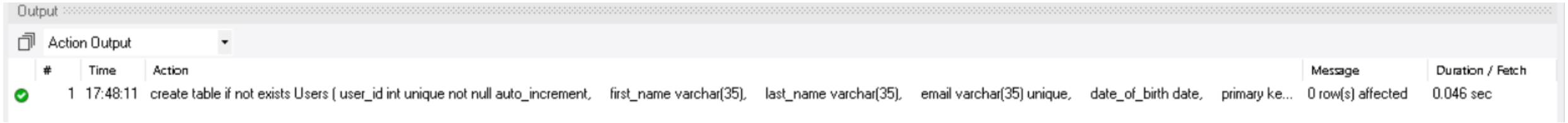
Action Output

#	Time	Action	Message	Duration / Fetch
1	17:39:05	update adresses join cities on adresses.city_id= cities.city_id set adresses.country_id = cities.country_id	20 row(s) affected Rows matc...	0.047 sec

User Entity

```sql
create table if not exists Users (
    user_id int unique not null auto_increment,
    first_name varchar(35),
    last_name varchar(35),
    email varchar(35) unique,
    date_of_birth date,
    primary key(user_id),
    adress_id int,
    foreign key(adress_id) references Adresses(adress_id)
);
```

This Statement creates a Table for the Users.



```
1  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_1","last_name_1","email_1",'1980-01-01',1);
2  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_2","last_name_2","email_2",'1981-01-01',2);
3  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_3","last_name_3","email_3",'1982-01-01',3);
4  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_4","last_name_4","email_4",'1983-01-01',4);
5  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_5","last_name_5","email_5",'1984-01-01',5);
6  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_6","last_name_6","email_6",'1985-01-01',6);
7  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_7","last_name_7","email_7",'1986-01-01',7);
8  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_8","last_name_8","email_8",'1987-01-01',8);
9  insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_9","last_name_9","email_9",'1988-01-01',9);
10 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_10","last_name_10","email_10",'1989-01-01',10);
11 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_11","last_name_11","email_11",'1990-01-01',11);
12 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_12","last_name_12","email_12",'1991-01-01',12);
13 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_13","last_name_13","email_13",'1992-01-01',13);
14 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_14","last_name_14","email_14",'1993-01-01',14);
15 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_15","last_name_15","email_15",'1994-01-01',15);
16 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_16","last_name_16","email_16",'1995-01-01',16);
17 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_17","last_name_17","email_17",'1996-01-01',17);
18 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_18","last_name_18","email_18",'1997-01-01',18);
19 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_19","last_name_19","email_19",'1998-01-01',19);
20 insert into users (first_name,last_name,email,date_of_birth,adress_id) values ("first_name_20","last_name_20","email_20",'1999-01-01',20);
21 select*from users;
```

These Statements will insert all the Users. In addition to that the select all statement verifies if all Users were inserted.

user_id	first_name	last_name	email	date_of_birth	adress_id
1	first_name_1	last_name_1	email_1	1980-01-01	1
2	first_name_2	last_name_2	email_2	1981-01-01	2
3	first_name_3	last_name_3	email_3	1982-01-01	3
4	first_name_4	last_name_4	email_4	1983-01-01	4
5	first_name_5	last_name_5	email_5	1984-01-01	5
6	first_name_6	last_name_6	email_6	1985-01-01	6
7	first_name_7	last_name_7	email_7	1986-01-01	7
8	first_name_8	last_name_8	email_8	1987-01-01	8
9	first_name_9	last_name_9	email_9	1988-01-01	9
10	first_name_10	last_name_10	email_10	1989-01-01	10
11	first_name_11	last_name_11	email_11	1990-01-01	11
12	first_name_12	last_name_12	email_12	1991-01-01	12
13	first_name_13	last_name_13	email_13	1992-01-01	13
14	first_name_14	last_name_14	email_14	1993-01-01	14
15	first_name_15	last_name_15	email_15	1994-01-01	15
16	first_name_16	last_name_16	email_16	1995-01-01	16
17	first_name_17	last_name_17	email_17	1996-01-01	17
18	first_name_18	last_name_18	email_18	1997-01-01	18
19	first_name_19	last_name_19	email_19	1998-01-01	19
20	first_name_20	last_name_20	email_20	1999-01-01	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:50:29	select*from users LIMIT 0, 10000	20 row(s) returned	0.016 sec / 0.000 sec

Output

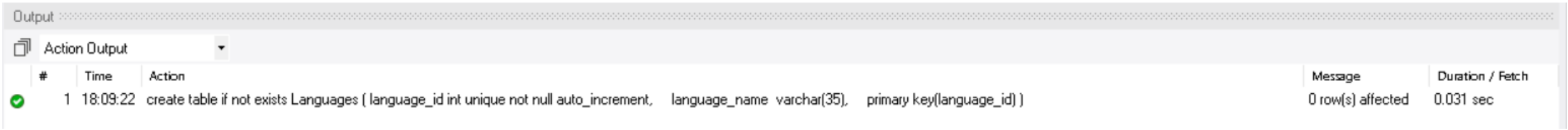
Action Output

#	Time	Action	Message	Duration / Fetch
1	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_1'',''last_name_1'',''email_1'',1980-01-01',1)	1 row(s) affected	0.016 sec
2	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_2'',''last_name_2'',''email_2'',1981-01-01',2)	1 row(s) affected	0.000 sec
3	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_3'',''last_name_3'',''email_3'',1982-01-01',3)	1 row(s) affected	0.000 sec
4	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_4'',''last_name_4'',''email_4'',1983-01-01',4)	1 row(s) affected	0.000 sec
5	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_5'',''last_name_5'',''email_5'',1984-01-01',5)	1 row(s) affected	0.000 sec
6	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_6'',''last_name_6'',''email_6'',1985-01-01',6)	1 row(s) affected	0.000 sec
7	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_7'',''last_name_7'',''email_7'',1986-01-01',7)	1 row(s) affected	0.000 sec
8	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_8'',''last_name_8'',''email_8'',1987-01-01',8)	1 row(s) affected	0.000 sec
9	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_9'',''last_name_9'',''email_9'',1988-01-01',9)	1 row(s) affected	0.000 sec
10	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_10'',''last_name_10'',''email_10'',1989-01-01',10)	1 row(s) affected	0.000 sec
11	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_11'',''last_name_11'',''email_11'',1990-01-01',11)	1 row(s) affected	0.000 sec
12	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_12'',''last_name_12'',''email_12'',1991-01-01',12)	1 row(s) affected	0.000 sec
13	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_13'',''last_name_13'',''email_13'',1992-01-01',13)	1 row(s) affected	0.000 sec
14	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_14'',''last_name_14'',''email_14'',1993-01-01',14)	1 row(s) affected	0.000 sec
15	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_15'',''last_name_15'',''email_15'',1994-01-01',15)	1 row(s) affected	0.015 sec
16	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_16'',''last_name_16'',''email_16'',1995-01-01',16)	1 row(s) affected	0.000 sec
17	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_17'',''last_name_17'',''email_17'',1996-01-01',17)	1 row(s) affected	0.000 sec
18	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_18'',''last_name_18'',''email_18'',1997-01-01',18)	1 row(s) affected	0.000 sec
19	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_19'',''last_name_19'',''email_19'',1998-01-01',19)	1 row(s) affected	0.000 sec
20	17:49:32	insert into users (first_name,last_name,email,date_of_birth,adress_id) values (''first_name_20'',''last_name_20'',''email_20'',1999-01-01',20)	1 row(s) affected	0.016 sec

Languages Entity

```sql
create table if not exists Languages (
    language_id int unique not null auto_increment,
    language_name  varchar(35),
    primary key(language_id)
);
```

This Statement creates a Table for the Languages.



```sql
insert into languages (language_name) values ("Dutch");
insert into languages (language_name) values ("English");
insert into languages (language_name) values ("French");
insert into languages (language_name) values ("Spanish");
insert into languages (language_name) values ("Portuguese");
insert into languages (language_name) values ("Thai");
insert into languages (language_name) values ("Romanian");
insert into languages (language_name) values ("Chinese");
insert into languages (language_name) values ("German");
insert into languages (language_name) values ("Indian");
insert into languages (language_name) values ("Japanese");
insert into languages (language_name) values ("Swahili");
insert into languages (language_name) values ("Bislama");
select*from languages;
```

These Statements will insert all the Languages. In addition to that the select all statement verifies if all Languages were inserted. These are all the languages spoken in their associated countries. Since some countries share English, Portuguese and Spanish as their spoken language this table does not have 20 entities.

language_id	language_name
1	Dutch
2	English
3	French
4	Spanish
5	Portuguese
6	Thai
7	Romanian
8	Chinese
9	German
10	Indian
11	Japanese
12	Swahili
13	Bislama

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:10:39	insert into languages (language_name) values ("Dutch")	1 row(s) affected	0.047 sec
2	18:10:39	insert into languages (language_name) values ("English")	1 row(s) affected	0.000 sec
3	18:10:39	insert into languages (language_name) values ("French")	1 row(s) affected	0.000 sec
4	18:10:39	insert into languages (language_name) values ("Spanish")	1 row(s) affected	0.000 sec
5	18:10:39	insert into languages (language_name) values ("Portuguese")	1 row(s) affected	0.000 sec
6	18:10:39	insert into languages (language_name) values ("Thai")	1 row(s) affected	0.016 sec
7	18:10:39	insert into languages (language_name) values ("Romanian")	1 row(s) affected	0.000 sec
8	18:10:39	insert into languages (language_name) values ("Chinese")	1 row(s) affected	0.000 sec
9	18:10:39	insert into languages (language_name) values ("German")	1 row(s) affected	0.000 sec
10	18:10:39	insert into languages (language_name) values ("Indian")	1 row(s) affected	0.000 sec
11	18:10:39	insert into languages (language_name) values ("Japanese")	1 row(s) affected	0.000 sec
12	18:10:39	insert into languages (language_name) values ("Swahili")	1 row(s) affected	0.000 sec
13	18:10:39	insert into languages (language_name) values ("Bislama")	1 row(s) affected	0.000 sec

Output

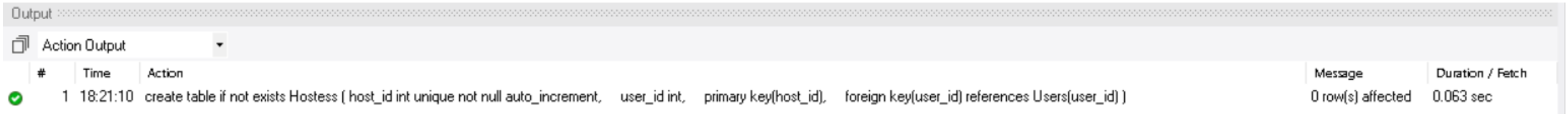
Action Output

#	Time	Action	Message	Duration / Fetch
1	18:11:11	select*from languages LIMIT 0, 10000	13 row(s) returned	0.000 sec / 0.000 sec

Hostess Entity

```sql
create table if not exists Hostess (
    host_id int unique not null auto_increment,
    user_id int,
    primary key(host_id),
    foreign key(user_id) references Users(user_id)
);
```

This Statement creates a Table for the Hostess.



```sql
insert into hostess (user_id) values (1);
insert into hostess (user_id) values (2);
insert into hostess (user_id) values (3);
insert into hostess (user_id) values (4);
insert into hostess (user_id) values (5);
insert into hostess (user_id) values (6);
insert into hostess (user_id) values (7);
insert into hostess (user_id) values (8);
insert into hostess (user_id) values (9);
insert into hostess (user_id) values (10);
insert into hostess (user_id) values (11);
insert into hostess (user_id) values (12);
insert into hostess (user_id) values (13);
insert into hostess (user_id) values (14);
insert into hostess (user_id) values (15);
insert into hostess (user_id) values (16);
insert into hostess (user_id) values (17);
insert into hostess (user_id) values (18);
insert into hostess (user_id) values (19);
insert into hostess (user_id) values (20);
select*from hostess;
```

These Statements will insert all the Hostess. In addition to that the select all statement verifies if all Hostess were inserted.

host_id	user_id
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:22:23	insert into hostess (user_id) values (1)	1 row(s) affected	0.000 sec
2	18:22:23	insert into hostess (user_id) values (2)	1 row(s) affected	0.000 sec
3	18:22:23	insert into hostess (user_id) values (3)	1 row(s) affected	0.000 sec
4	18:22:23	insert into hostess (user_id) values (4)	1 row(s) affected	0.000 sec
5	18:22:23	insert into hostess (user_id) values (5)	1 row(s) affected	0.000 sec
6	18:22:23	insert into hostess (user_id) values (6)	1 row(s) affected	0.000 sec
7	18:22:23	insert into hostess (user_id) values (7)	1 row(s) affected	0.000 sec
8	18:22:23	insert into hostess (user_id) values (8)	1 row(s) affected	0.000 sec
9	18:22:23	insert into hostess (user_id) values (9)	1 row(s) affected	0.000 sec
10	18:22:23	insert into hostess (user_id) values (10)	1 row(s) affected	0.000 sec
11	18:22:23	insert into hostess (user_id) values (11)	1 row(s) affected	0.000 sec
12	18:22:23	insert into hostess (user_id) values (12)	1 row(s) affected	0.000 sec
13	18:22:23	insert into hostess (user_id) values (13)	1 row(s) affected	0.000 sec
14	18:22:23	insert into hostess (user_id) values (14)	1 row(s) affected	0.000 sec
15	18:22:23	insert into hostess (user_id) values (15)	1 row(s) affected	0.000 sec
16	18:22:23	insert into hostess (user_id) values (16)	1 row(s) affected	0.000 sec
17	18:22:23	insert into hostess (user_id) values (17)	1 row(s) affected	0.000 sec
18	18:22:23	insert into hostess (user_id) values (18)	1 row(s) affected	0.000 sec
19	18:22:23	insert into hostess (user_id) values (19)	1 row(s) affected	0.000 sec
20	18:22:23	insert into hostess (user_id) values (20)	1 row(s) affected	0.015 sec

Output

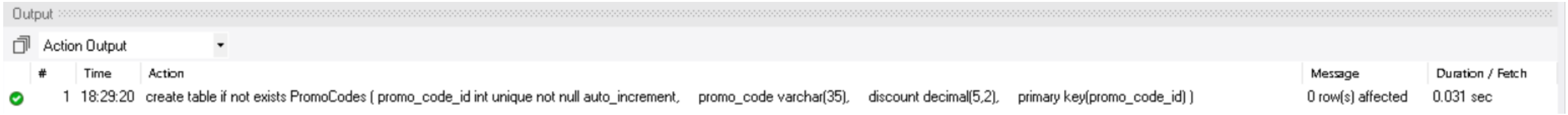
Action Output

#	Time	Action	Message	Duration / Fetch
1	18:22:58	select*from hostess LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Promo Codes Entity

```sql
create table if not exists PromoCodes (
    promo_code_id int unique not null auto_increment,
    promo_code varchar(35),
    discount decimal(5,2),
    primary key(promo_code_id)
);
```

This Statement creates a Table for the Promo Codes.



```sql
insert into promocodes (promo_code,discount) values ("KRKKnM7D",0.05);
insert into promocodes (promo_code,discount) values ("vqfxfWRe",0.05);
insert into promocodes (promo_code,discount) values ("JjZmNpCE",0.05);
insert into promocodes (promo_code,discount) values ("uI0D3m0n",0.05);
insert into promocodes (promo_code,discount) values ("nRwRoKDu",0.10);
insert into promocodes (promo_code,discount) values ("LDzzxMC9",0.10);
insert into promocodes (promo_code,discount) values ("5v35sI2j",0.10);
insert into promocodes (promo_code,discount) values ("ohpzQIKJ",0.10);
insert into promocodes (promo_code,discount) values ("wRrPuJRg",0.15);
insert into promocodes (promo_code,discount) values ("ayjn5Se9",0.15);
insert into promocodes (promo_code,discount) values ("9LYyF5oA",0.15);
insert into promocodes (promo_code,discount) values ("c8YhOMvJ",0.15);
insert into promocodes (promo_code,discount) values ("R1hVeGVQ",0.20);
insert into promocodes (promo_code,discount) values ("8FZ2SHFK",0.20);
insert into promocodes (promo_code,discount) values ("MG6HaAw3",0.20);
insert into promocodes (promo_code,discount) values ("EGzb16CN",0.20);
insert into promocodes (promo_code,discount) values ("UUOKiAjy",0.25);
insert into promocodes (promo_code,discount) values ("50umPLjq",0.25);
insert into promocodes (promo_code,discount) values ("jeHAYuSL",0.25);
insert into promocodes (promo_code,discount) values ("PVkCwMc4",0.25);
select * from promocodes;
```

These Statements will insert all the Promo Codes. In addition to that the select all statement verifies if all Promo Codes were inserted.

promo_code_id	promo_code	discount
1	KRKKnM7D	0.05
2	vqfxfWRe	0.05
3	JjZmNpCE	0.05
4	uI0D3m0n	0.05
5	nRwRoKDu	0.10
6	LDzzxMC9	0.10
7	5v35sI2j	0.10
8	ohpzQIKJ	0.10
9	wRrPuJRg	0.15
10	ayjn5Se9	0.15
11	9LYyF5oA	0.15
12	c8YhOMvJ	0.15
13	R1hVeGVQ	0.20
14	8FZ2SHFK	0.20
15	MG6HaAw3	0.20
16	EGzb16CN	0.20
17	UUOKiAjy	0.25
18	50umPLjq	0.25
19	jeHAYuSL	0.25
20	PVkCwMc4	0.25

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:30:47	insert into promocodes (promo_code,discount) values ("KRKKnM7D",0.05)	1 row(s) affected	0.031 sec
2	18:30:47	insert into promocodes (promo_code,discount) values ("vqfxfWRe",0.05)	1 row(s) affected	0.000 sec
3	18:30:47	insert into promocodes (promo_code,discount) values ("JjZmNpCE",0.05)	1 row(s) affected	0.000 sec
4	18:30:48	insert into promocodes (promo_code,discount) values ("ul0D3m0n",0.05)	1 row(s) affected	0.000 sec
5	18:30:48	insert into promocodes (promo_code,discount) values ("nRwRoKDu",0.10)	1 row(s) affected	0.000 sec
6	18:30:48	insert into promocodes (promo_code,discount) values ("LDzzxMC9",0.10)	1 row(s) affected	0.000 sec
7	18:30:48	insert into promocodes (promo_code,discount) values ("5v35sl2j",0.10)	1 row(s) affected	0.000 sec
8	18:30:48	insert into promocodes (promo_code,discount) values ("ohpzQIKJ",0.10)	1 row(s) affected	0.000 sec
9	18:30:48	insert into promocodes (promo_code,discount) values ("wRrPuJRg",0.15)	1 row(s) affected	0.000 sec
10	18:30:48	insert into promocodes (promo_code,discount) values ("ayjn5Se9",0.15)	1 row(s) affected	0.000 sec
11	18:30:48	insert into promocodes (promo_code,discount) values ("9LYyF5oA",0.15)	1 row(s) affected	0.000 sec
12	18:30:48	insert into promocodes (promo_code,discount) values ("c8YhOMvJ",0.15)	1 row(s) affected	0.000 sec
13	18:30:48	insert into promocodes (promo_code,discount) values ("R1hVeGVQ",0.20)	1 row(s) affected	0.016 sec
14	18:30:48	insert into promocodes (promo_code,discount) values ("8FZ2SHFK",0.20)	1 row(s) affected	0.000 sec
15	18:30:48	insert into promocodes (promo_code,discount) values ("MG6HaAw3",0.20)	1 row(s) affected	0.000 sec
16	18:30:48	insert into promocodes (promo_code,discount) values ("EGzb16CN",0.20)	1 row(s) affected	0.000 sec
17	18:30:48	insert into promocodes (promo_code,discount) values ("UUOKiAjy",0.25)	1 row(s) affected	0.000 sec
18	18:30:48	insert into promocodes (promo_code,discount) values ("50umPLjq",0.25)	1 row(s) affected	0.015 sec
19	18:30:48	insert into promocodes (promo_code,discount) values ("jeHAYuSL",0.25)	1 row(s) affected	0.016 sec
20	18:30:48	insert into promocodes (promo_code,discount) values ("PVkCwMc4",0.25)	1 row(s) affected	0.000 sec

Output

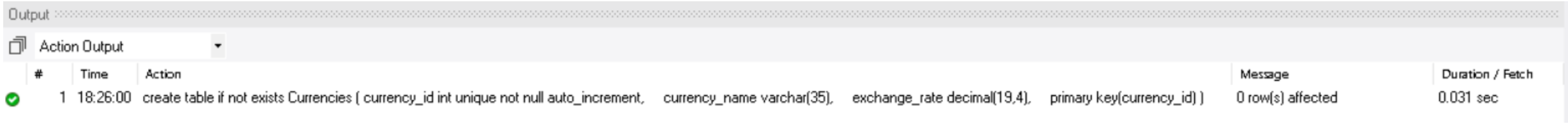
Action Output

#	Time	Action	Message	Duration / Fetch
1	18:31:25	select * from promocodes LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Currency Entity

```
1  create table if not exists Currencies (
2      currency_id int unique not null auto_increment,
3      currency_name varchar(35),
4      exchange_rate decimal(19,4),
5      primary key(currency_id)
6  );
```

This Statement creates a Table for the Currencies.



```sql
insert into currencies (currency_name) values ("USD");
insert into currencies (currency_name,exchange_rate) values ("EUR",0.852);
insert into currencies (currency_name,exchange_rate) values ("JPY",109.620);
insert into currencies (currency_name,exchange_rate) values ("GBP",0.732);
insert into currencies (currency_name,exchange_rate) values ("AUD",0.745);
insert into currencies (currency_name,exchange_rate) values ("CHF",0.922);
insert into currencies (currency_name,exchange_rate) values ("THB",33.453);
insert into currencies (currency_name,exchange_rate) values ("RON",4.217);
insert into currencies (currency_name,exchange_rate) values ("MXN",20.037);
insert into currencies (currency_name,exchange_rate) values ("COP",3.835);
insert into currencies (currency_name,exchange_rate) values ("CAD",1.274);
insert into currencies (currency_name,exchange_rate) values ("BRL",5.276);
insert into currencies (currency_name,exchange_rate) values ("INR",73.816);
insert into currencies (currency_name,exchange_rate) values ("KES",110.389);
insert into currencies (currency_name,exchange_rate) values ("CNY",6.461);
insert into currencies (currency_name,exchange_rate) values ("VUV",112.298);
select*from currencies;
```

These Statements will insert all the Currencies. In addition to that the select all statement verifies if Currencies were inserted. In this database USD is the standard Currency, therefore the exchange rate column is empty for USD. All the other entries in the exchange rate column will convert USD to the other Currency.

currency_id	currency_name	exchange_rate
1	USD	NULL
2	EUR	0.8520
3	JPY	109.6200
4	GBP	0.7320
5	AUD	0.7450
6	CHF	0.9220
7	THB	33.4530
8	RON	4.2170
9	MXN	20.0370
10	COP	3.8350
11	CAD	1.2740
12	BRL	5.2760
13	INR	73.8160
14	KES	110.3890
15	CNY	6.4610
16	VUV	112.2980

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:28:17	insert into currencies (currency_name) values ("USD")	1 row(s) affected	0.016 sec
2	18:28:17	insert into currencies (currency_name,exchange_rate) values ("EUR",0.852)	1 row(s) affected	0.000 sec
3	18:28:17	insert into currencies (currency_name,exchange_rate) values ("JPY",109.620)	1 row(s) affected	0.000 sec
4	18:28:17	insert into currencies (currency_name,exchange_rate) values ("GBP",0.732)	1 row(s) affected	0.000 sec
5	18:28:17	insert into currencies (currency_name,exchange_rate) values ("AUD",0.745)	1 row(s) affected	0.000 sec
6	18:28:17	insert into currencies (currency_name,exchange_rate) values ("CHF",0.922)	1 row(s) affected	0.000 sec
7	18:28:17	insert into currencies (currency_name,exchange_rate) values ("THB",33.453)	1 row(s) affected	0.016 sec
8	18:28:18	insert into currencies (currency_name,exchange_rate) values ("RON",4.217)	1 row(s) affected	0.000 sec
9	18:28:18	insert into currencies (currency_name,exchange_rate) values ("MXN",20.037)	1 row(s) affected	0.000 sec
10	18:28:18	insert into currencies (currency_name,exchange_rate) values ("COP",3.835)	1 row(s) affected	0.000 sec
11	18:28:18	insert into currencies (currency_name,exchange_rate) values ("CAD",1.274)	1 row(s) affected	0.000 sec
12	18:28:18	insert into currencies (currency_name,exchange_rate) values ("BRL",5.276)	1 row(s) affected	0.000 sec
13	18:28:18	insert into currencies (currency_name,exchange_rate) values ("INR",73.816)	1 row(s) affected	0.000 sec
14	18:28:18	insert into currencies (currency_name,exchange_rate) values ("KES",110.389)	1 row(s) affected	0.000 sec
15	18:28:18	insert into currencies (currency_name,exchange_rate) values ("CNY",6.461)	1 row(s) affected	0.000 sec
16	18:28:18	insert into currencies (currency_name,exchange_rate) values ("VUV",112.298)	1 row(s) affected	0.016 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:39:26	select*from currencies LIMIT 0, 10000	16 row(s) returned	0.000 sec / 0.000 sec

Accommodation Entity

```sql
create table if not exists Accommodations (
    accommodation_id int unique not null auto_increment,
    price_per_night decimal,
    room_count int,
    bed_count int,
    accommodation_adresse_id int,
    accommodation_description_id int,
    accommodation_room_type_id int,
    accommodation_type_id int,
    host_id int,
    currency_id int,
    promo_code_id int,
    primary key(accommodation_id),
    foreign key(accommodation_adresse_id)references AccommodationAdresses(accommodation_adresse_id),
    foreign key(accommodation_description_id)references AccommodationDescriptions(accommodation_description_id),
    foreign key(accommodation_room_type_id)references AccommodationRoomTypes(accommodation_room_type_id),
    foreign key(accommodation_type_id)references AccommodationTypes(accommodation_type_id),
    foreign key(host_id)references Hostess(host_id),
    foreign key(currency_id)references Currencies(currency_id),
    foreign key(promo_code_id)references PromoCodes(promo_code_id)
);
```

This Statement creates a Table for the Accommodations.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:43:45	create table if not exists Accommodations (accommodation_id int unique not null auto_increment, price_per_night decimal, room_count int, bed_count int, accommodation_adresse_...	0 row(s) affected	0.062 sec

```sql
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (69,2,3,1,1,1,3,1,1);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (74,2,3,2,2,2,3,2,2);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (50,1,2,3,3,3,1,7,3);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (120,5,6,4,4,4,2,5,4);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (82,4,5,5,5,1,3,15,5);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (57,2,3,6,6,2,3,2,6);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (71,3,4,7,7,3,1,8,7);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (100,4,5,8,8,4,2,9,8);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (93,4,5,9,9,1,3,16,9);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (51,2,3,10,10,2,3,10,10);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (30,1,2,11,11,3,1,1,11);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (45,2,3,12,12,4,2,4,12);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (54,2,4,13,13,1,3,11,13);
insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
values (84,3,4,14,14,2,3,12,14);
```

```
29 • insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
30   values (89,3,4,15,15,3,1,2,15);
31 • insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
32   values (48,2,3,16,16,4,2,3,16);
33 • insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
34   values (97,4,5,17,17,1,3,13,17);
35 • insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
36   values (118,5,6,18,18,2,3,14,18);
37 • insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id)
38   values (106,4,5,19,19,3,1,2,19);
39   /*select *from accommodations;
```

These Statements will insert all the Accommodations. In addition to that the select all statement verifies if Accommodations were inserted.

accommodation_id	price_per_night	room_count	bed_count	accommodation_adresse_id	accommodation_description_id	accommodation_room_type_id	accommodation_type_id	host_id	currency_id	promo_code_id
1	69	2	3	1	1	1	3	NULL	1	1
2	74	2	3	2	2	2	3	NULL	2	2
3	50	1	2	3	3	3	1	NULL	7	3
4	120	5	6	4	4	4	2	NULL	5	4
5	82	4	5	5	5	1	3	NULL	15	5
6	57	2	3	6	6	2	3	NULL	2	6
7	71	3	4	7	7	3	1	NULL	8	7
8	100	4	5	8	8	4	2	NULL	9	8
9	93	4	5	9	9	1	3	NULL	16	9
10	51	2	3	10	10	2	3	NULL	10	10
11	30	1	2	11	11	3	1	NULL	1	11
12	45	2	3	12	12	4	2	NULL	4	12
13	54	2	4	13	13	1	3	NULL	11	13
14	84	3	4	14	14	2	3	NULL	12	14
15	89	3	4	15	15	3	1	NULL	2	15
16	48	2	3	16	16	4	2	NULL	3	16
17	97	4	5	17	17	1	3	NULL	13	17
18	118	5	6	18	18	2	3	NULL	14	18
19	106	4	5	19	19	3	1	NULL	2	19
20	56	2	2	19	19	3	1	NULL	2	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (69,2,3,1,1,1,3,1,1)	1 row(s) affected	0.031 sec
2	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (74,2,3,2,2,2,3,2,2)	1 row(s) affected	0.000 sec
3	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (50,1,2,3,3,3,1,7,3)	1 row(s) affected	0.000 sec
4	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (120,5,6,4,4,4,2,5,4)	1 row(s) affected	0.000 sec
5	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (82,4,5,5,5,1,3,15,5)	1 row(s) affected	0.000 sec
6	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (57,2,3,6,6,2,3,2,6)	1 row(s) affected	0.000 sec
7	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (71,3,4,7,7,3,1,8,7)	1 row(s) affected	0.000 sec
8	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (100,4,5,8,8,4,2,9,8)	1 row(s) affected	0.000 sec
9	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (93,4,5,9,9,1,3,16,9)	1 row(s) affected	0.016 sec
10	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (51,2,3,10,10,2,3,10,10)	1 row(s) affected	0.000 sec
11	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (30,1,2,11,11,3,1,1,11)	1 row(s) affected	0.000 sec
12	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (45,2,3,12,12,4,2,4,12)	1 row(s) affected	0.000 sec
13	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (54,2,4,13,13,1,3,11,13)	1 row(s) affected	0.000 sec
14	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (84,3,4,14,14,2,3,12,14)	1 row(s) affected	0.000 sec
15	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (89,3,4,15,15,3,1,2,15)	1 row(s) affected	0.000 sec
16	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (48,2,3,16,16,4,2,3,16)	1 row(s) affected	0.000 sec
17	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (97,4,5,17,17,1,3,13,17)	1 row(s) affected	0.000 sec
18	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (118,5,6,18,18,2,3,14,18)	1 row(s) affected	0.000 sec
19	19:01:45	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (106,4,5,19,19,3,1,2,19)	1 row(s) affected	0.000 sec
20	19:04:59	insert into accommodations (price_per_night,room_count,bed_count,accommodation_adresse_id,accommodation_description_id,accommodation_room_type_id,accommodation_type_id,currency_id,promo_code_id) values (56,2,2,19,19,3,1,2,20)	1 row(s) affected	0.016 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:05:37	select *from accommodations LIMIT 0, 10000	20 row(s) returned	0.016 sec / 0.000 sec

```
13 •  update accommodations join accommodationadresses on accommodations.accommodation_adresse_id = accommodationadresses.accommodation_adresse_id
14    join adresses on accommodationadresses.country_id = adresses.country_id join users on adresses.adress_id = users.adress_id join hostess on hostess.user_id = users.user_id
15    set accommodations.host_id = hostess.host_id;
```

This Statement updates the missing elements in the Host column.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:47:57	update accommodations join accommodationadresses on accommodations.accommodation_adresse_id = accommodationadresses.accommodation_adresse_id join adresses on accommodationadresses.country_id = adresses.country_id j...	20 row(s) affected Rows matched...	0.032 sec

accommodation_id	price_per_night	room_count	bed_count	accommodation_adresse_id	accommodation_description_id	accommodation_room_type_id	accommodation_type_id	host_id	currency_id	promo_code_id
1	69	2	3	1	1	1	3	1	1	1
2	74	2	3	2	2	2	3	2	2	2
3	50	1	2	3	3	3	1	3	7	3
4	120	5	6	4	4	4	2	4	5	4
5	82	4	5	5	5	1	3	5	15	5
6	57	2	3	6	6	2	3	7	2	6
7	71	3	4	7	7	3	1	8	8	7
8	100	4	5	8	8	4	2	9	9	8
9	93	4	5	9	9	1	3	10	16	9
10	51	2	3	10	10	2	3	11	10	10
11	30	1	2	11	11	3	1	1	1	11
12	45	2	3	12	12	4	2	13	4	12
13	54	2	4	13	13	1	3	14	11	13
14	84	3	4	14	14	2	3	15	12	14
15	89	3	4	15	15	3	1	16	2	15
16	48	2	3	16	16	4	2	17	3	16
17	97	4	5	17	17	1	3	18	13	17
18	118	5	6	18	18	2	3	19	14	18
19	106	4	5	19	19	3	1	20	2	19
20	56	2	2	19	19	3	1	20	2	20

Booking Entity

```sql
create table if not exists Bookings (
    booking_id int unique not null auto_increment,
    start_date date,
    end_date date,
    num_nights int,
    accommodation_id int,
    user_id int,
    primary key(booking_id),
    foreign key(user_id)references Users(user_id),
    foreign key(accommodation_id)references Accommodations(accommodation_id)
);
```

This Statement creates a Table for the Bookings.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:33:29	create table if not exists Bookings (booking_id int unique not null auto_increment, start_date date, end_date date, num_nights int, accommodation_id int, user_id int, primary key(booking_id), foreign key(user_id)references Users(user...	0 row(s) affected	0.047 sec

```sql
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-01-01','2021-01-08',8,1,1);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-02-01','2021-02-11',11,2,2);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-03-01','2021-03-05',5,3,3);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-04-01','2021-04-06',6,8,4);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-05-01','2021-05-15',15,4,5);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-06-01','2021-06-04',4,5,6);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-07-01','2021-07-03',3,6,7);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-08-01','2021-08-02',2,7,8);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-09-01','2021-09-09',9,9,9);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-10-01','2021-10-04',4,10,10);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-11-01','2021-11-02',2,15,11);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-12-01','2021-12-01',1,11,12);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-01-01','2022-01-08',8,12,13);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-02-01','2022-02-07',7,13,14);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-03-01','2022-03-10',10,14,15);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-04-01','2022-04-03',3,16,16);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-05-01','2022-05-06',6,17,17);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-06-01','2022-06-24',24,19,18);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-07-01','2022-07-12',12,18,19);
insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-08-01','2022-08-09',9,20,20);
select*from bookings;
```

These Statements will insert all the Bookings. In addition to that the select all statement verifies if Bookings were inserted.

booking_id	start_date	end_date	num_nights	accommodation_id	user_id
1	2021-01-01	2021-01-08	8	1	1
2	2021-02-01	2021-02-11	11	2	2
3	2021-03-01	2021-03-05	5	3	3
4	2021-04-01	2021-04-06	6	8	4
5	2021-05-01	2021-05-15	15	4	5
6	2021-06-01	2021-06-04	4	5	6
7	2021-07-01	2021-07-03	3	6	7
8	2021-08-01	2021-08-02	2	7	8
9	2021-09-01	2021-09-09	9	9	9
10	2021-10-01	2021-10-04	4	10	10
11	2021-11-01	2021-11-02	2	15	11
12	2021-12-01	2021-12-01	1	11	12
13	2022-01-01	2022-01-08	8	12	13
14	2022-02-01	2022-02-07	7	13	14
15	2022-03-01	2022-03-10	10	14	15
16	2022-04-01	2022-04-03	3	16	16
17	2022-05-01	2022-05-06	6	17	17
18	2022-06-01	2022-06-24	24	19	18
19	2022-07-01	2022-07-12	12	18	19
20	2022-08-01	2022-08-09	9	20	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-01-01','2021-01-08',8,1,1)	1 row(s) affected	0.016 sec
2	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-02-01','2021-02-11',11,2,2)	1 row(s) affected	0.015 sec
3	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-03-01','2021-03-05',5,3,3)	1 row(s) affected	0.000 sec
4	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-04-01','2021-04-06',6,8,4)	1 row(s) affected	0.000 sec
5	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-05-01','2021-05-15',15,4,5)	1 row(s) affected	0.000 sec
6	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-06-01','2021-06-04',4,5,6)	1 row(s) affected	0.016 sec
7	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-07-01','2021-07-03',3,6,7)	1 row(s) affected	0.000 sec
8	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-08-01','2021-08-02',2,7,8)	1 row(s) affected	0.015 sec
9	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-09-01','2021-09-09',9,9,9)	1 row(s) affected	0.000 sec
10	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-10-01','2021-10-04',4,10,10)	1 row(s) affected	0.000 sec
11	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-11-01','2021-11-02',2,15,11)	1 row(s) affected	0.000 sec
12	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2021-12-01','2021-12-01',1,11,12)	1 row(s) affected	0.016 sec
13	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-01-01','2022-01-08',8,12,13)	1 row(s) affected	0.000 sec
14	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-02-01','2022-02-07',7,13,14)	1 row(s) affected	0.000 sec
15	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-03-01','2022-03-10',10,14,15)	1 row(s) affected	0.000 sec
16	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-04-01','2022-04-03',3,16,16)	1 row(s) affected	0.000 sec
17	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-05-01','2022-05-06',6,17,17)	1 row(s) affected	0.000 sec
18	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-06-01','2022-06-24',24,19,18)	1 row(s) affected	0.000 sec
19	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-07-01','2022-07-12',12,18,19)	1 row(s) affected	0.000 sec
20	19:35:41	insert into bookings (start_date,end_date,num_nights,accommodation_id,user_id) values ('2022-08-01','2022-08-09',9,20,20)	1 row(s) affected	0.000 sec

Output

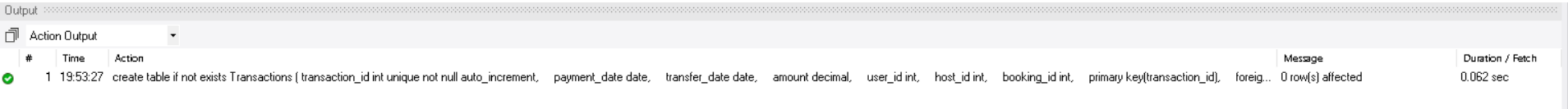
Action Output

#	Time	Action	Message	Duration / Fetch
1	19:36:12	select*from bookings LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Transaction Entity

```sql
create table if not exists Transactions (
    transaction_id int unique not null auto_increment,
    payment_date date,
    transfer_date date,
    amount decimal,
    user_id int,
    host_id int,
    booking_id int,
    primary key(transaction_id),
    foreign key(user_id)references Users(user_id),
    foreign key(host_id)references Hostess(host_id),
    foreign key (booking_id) references bookings(booking_id)
);
```

This Statement creates a Table for the Transactions.



```sql
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-01-01','2021-01-04',1,1);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-02-01','2021-02-04',2,2);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-03-01','2021-03-04',3,3);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-04-01','2021-04-04',4,4);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-05-01','2021-05-05',5,5);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-06-01','2021-06-04',6,6);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-07-01','2021-07-04',7,7);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-08-01','2021-08-04',8,8);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-09-01','2021-09-04',9,9);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-10-01','2021-10-06',10,10);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-11-01','2021-11-04',11,11);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-12-01','2021-12-04',12,12);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-01-01','2022-01-04',13,13);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-02-01','2022-02-04',14,14);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-03-01','2022-03-04',15,15);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-04-01','2022-04-04',16,16);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-05-01','2022-05-07',17,17);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-06-01','2022-06-04',18,18);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-07-01','2022-07-04',19,19);
insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-08-01','2022-08-04',20,20);
select*from transactions;
```

These Statements will insert all the Transactions. In addition to that the select all statement verifies if Transactions were inserted.

transaction_id	payment_date	transfer_date	amount	user_id	host_id	booking_id
1	2021-01-01	2021-01-04	NULL	1	NULL	1
2	2021-02-01	2021-02-04	NULL	2	NULL	2
3	2021-03-01	2021-03-04	NULL	3	NULL	3
4	2021-04-01	2021-04-04	NULL	4	NULL	4
5	2021-05-01	2021-05-05	NULL	5	NULL	5
6	2021-06-01	2021-06-04	NULL	6	NULL	6
7	2021-07-01	2021-07-04	NULL	7	NULL	7
8	2021-08-01	2021-08-04	NULL	8	NULL	8
9	2021-09-01	2021-09-04	NULL	9	NULL	9
10	2021-10-01	2021-10-06	NULL	10	NULL	10
11	2021-11-01	2021-11-04	NULL	11	NULL	11
12	2021-12-01	2021-12-04	NULL	12	NULL	12
13	2022-01-01	2022-01-04	NULL	13	NULL	13
14	2022-02-01	2022-02-04	NULL	14	NULL	14
15	2022-03-01	2022-03-04	NULL	15	NULL	15
16	2022-04-01	2022-04-04	NULL	16	NULL	16
17	2022-05-01	2022-05-07	NULL	17	NULL	17
18	2022-06-01	2022-06-04	NULL	18	NULL	18
19	2022-07-01	2022-07-04	NULL	19	NULL	19
20	2022-08-01	2022-08-04	NULL	20	NULL	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-01-01','2021-01-04',1,1)	1 row(s) affected	0.015 sec
2	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-02-01','2021-02-04',2,2)	1 row(s) affected	0.000 sec
3	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-03-01','2021-03-04',3,3)	1 row(s) affected	0.000 sec
4	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-04-01','2021-04-04',4,4)	1 row(s) affected	0.000 sec
5	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-05-01','2021-05-05',5,5)	1 row(s) affected	0.000 sec
6	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-06-01','2021-06-04',6,6)	1 row(s) affected	0.000 sec
7	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-07-01','2021-07-04',7,7)	1 row(s) affected	0.016 sec
8	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-08-01','2021-08-04',8,8)	1 row(s) affected	0.000 sec
9	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-09-01','2021-09-04',9,9)	1 row(s) affected	0.000 sec
10	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-10-01','2021-10-06',10,10)	1 row(s) affected	0.000 sec
11	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-11-01','2021-11-04',11,11)	1 row(s) affected	0.000 sec
12	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2021-12-01','2021-12-04',12,12)	1 row(s) affected	0.000 sec
13	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-01-01','2022-01-04',13,13)	1 row(s) affected	0.000 sec
14	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-02-01','2022-02-04',14,14)	1 row(s) affected	0.000 sec
15	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-03-01','2022-03-04',15,15)	1 row(s) affected	0.000 sec
16	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-04-01','2022-04-04',16,16)	1 row(s) affected	0.000 sec
17	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-05-01','2022-05-07',17,17)	1 row(s) affected	0.000 sec
18	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-06-01','2022-06-04',18,18)	1 row(s) affected	0.000 sec
19	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-07-01','2022-07-04',19,19)	1 row(s) affected	0.000 sec
20	19:54:42	insert into transactions (payment_date,transfer_date,user_id,booking_id) values ('2022-08-01','2022-08-04',20,20)	1 row(s) affected	0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:55:17	select*from transactions LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

```
update transactions join bookings on transactions.booking_id = bookings.booking_id
join accommodations on bookings.accommodation_id = accommodations.accommodation_id set transactions.amount = bookings.num_nights* accommodations.price_per_night;
```

```
update transactions join bookings on transactions.booking_id = bookings.booking_id
join accommodations on bookings.accommodation_id = accommodations.accommodation_id set transactions.host_id = accommodations.host_id;
```

These Statements update the missing elements in the amount and host column.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	19:56:44	update transactions join bookings on transactions.booking_id = bookings.booking_id join accommodations on bookings.accommodation_id = accommodations.accommodation_id set transactions.amount = bookings.num_nights* accommo...	20 row(s) affected Rows matche...	0.015 sec

Output

Action Output

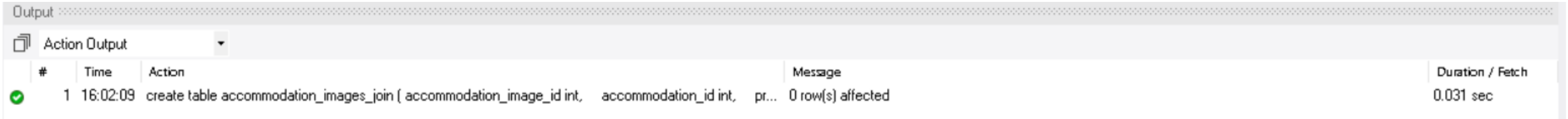
#	Time	Action	Message	Duration / Fetch
1	19:57:46	update transactions join bookings on transactions.booking_id = bookings.booking_id join accommodations on bookings.accommodation_id = accommodations.accommodation_id set transactions.host_id = accommodations.host_id	20 row(s) affected Rows matche...	0.016 sec

transaction_id	payment_date	transfer_date	amount	user_id	host_id	booking_id
1	2021-01-01	2021-01-04	552	1	1	1
2	2021-02-01	2021-02-04	814	2	2	2
3	2021-03-01	2021-03-04	250	3	3	3
4	2021-04-01	2021-04-04	600	4	9	4
5	2021-05-01	2021-05-05	1800	5	4	5
6	2021-06-01	2021-06-04	328	6	5	6
7	2021-07-01	2021-07-04	171	7	7	7
8	2021-08-01	2021-08-04	142	8	8	8
9	2021-09-01	2021-09-04	837	9	10	9
10	2021-10-01	2021-10-06	204	10	11	10
11	2021-11-01	2021-11-04	178	11	16	11
12	2021-12-01	2021-12-04	30	12	1	12
13	2022-01-01	2022-01-04	360	13	13	13
14	2022-02-01	2022-02-04	378	14	14	14
15	2022-03-01	2022-03-04	840	15	15	15
16	2022-04-01	2022-04-04	144	16	17	16
17	2022-05-01	2022-05-07	582	17	18	17
18	2022-06-01	2022-06-04	2544	18	20	18
19	2022-07-01	2022-07-04	1416	19	19	19
20	2022-08-01	2022-08-04	504	20	20	20

Accommodation Images Join Table

```sql
create table accommodation_images_join (
    accommodation_image_id int,
    accommodation_id int,
    primary key(accommodation_image_id,accommodation_id),
    foreign key(accommodation_image_id)references AccommodationImages(accommodation_image_id),
    foreign key(accommodation_id)references accommodations(accommodation_id)
);
```

This Statement creates a Join Table for the Accommodations and the Accommodation Images.



```sql
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (1,1);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (2,2);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (3,3);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (4,4);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (5,5);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (6,6);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (7,7);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (8,8);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (9,9);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (10,10);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (11,11);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (12,12);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (13,13);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (14,14);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (15,15);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (16,16);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (17,17);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (18,18);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (19,19);
insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (20,20);
select*from accommodation_images_join;
```

These Statements will insert all the Elements. In addition to that the select all statement verifies if Elements were inserted.

accommodation_image_id	accommodation_id
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:03:51	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (1,1)	1 row(s) affected	0.031 sec
2	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (2,2)	1 row(s) affected	0.016 sec
3	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (3,3)	1 row(s) affected	0.000 sec
4	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (4,4)	1 row(s) affected	0.000 sec
5	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (5,5)	1 row(s) affected	0.000 sec
6	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (6,6)	1 row(s) affected	0.000 sec
7	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (7,7)	1 row(s) affected	0.000 sec
8	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (8,8)	1 row(s) affected	0.000 sec
9	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (9,9)	1 row(s) affected	0.000 sec
10	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (10,10)	1 row(s) affected	0.000 sec
11	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (11,11)	1 row(s) affected	0.016 sec
12	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (12,12)	1 row(s) affected	0.000 sec
13	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (13,13)	1 row(s) affected	0.000 sec
14	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (14,14)	1 row(s) affected	0.000 sec
15	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (15,15)	1 row(s) affected	0.000 sec
16	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (16,16)	1 row(s) affected	0.000 sec
17	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (17,17)	1 row(s) affected	0.000 sec
18	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (18,18)	1 row(s) affected	0.000 sec
19	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (19,19)	1 row(s) affected	0.016 sec
20	16:03:52	insert into accommodation_images_join (accommodation_image_id,accommodation_id) values (20,20)	1 row(s) affected	0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:04:27	select*from accommodation_images_join LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Accommodation Amenities Join Table

```sql
create table accommodation_amenities_join (
    accommodation_amenitie_id int,
    accommodation_id int,
    primary key(accommodation_amenitie_id,accommodation_id),
    foreign key(accommodation_amenitie_id)references accommodationamenitites(accommodation_amenitie_id),
    foreign key(accommodation_id)references accommodations(accommodation_id)
);
```

This Statement creates a Join Table for the Accommodations and the Accommodation Amenities.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:17:24	create table accommodation_amenities_join (accommodation_amenitie_id int, accommodation_id int, ...	0 row(s) affected	0.063 sec

```sql
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (1,1);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (2,1);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (3,1);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (4,2);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (5,2);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (6,2);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (7,3);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (8,3);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (9,3);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (10,4);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (11,4);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (12,4);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (13,5);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (14,5);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (15,5);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (16,6);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (17,6);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (18,6);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (19,7);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (20,7);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (1,7);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (2,8);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (3,8);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (4,8);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (5,9);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (6,9);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (7,9);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (8,10);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (9,10);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (10,10);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (11,11);
```

These Statements will insert all the Elements. In addition to that the select all statement verifies if Elements were inserted.

```
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (12,11);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (13,11);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (14,12);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (15,12);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (16,12);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (17,13);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (18,13);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (19,13);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (20,14);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (1,14);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (2,14);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (3,15);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (4,15);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (5,15);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (6,16);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (7,16);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (8,16);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (9,17);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (10,17);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (11,17);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (12,18);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (13,18);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (14,18);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (15,19);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (16,19);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (17,19);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (18,20);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (19,20);
insert into accommodation_amenities_join  (accommodation_amenitie_id,accommodation_id) values (20,20);
select*from accommodation_amenities_join;
```

accommodation_amenitie_id	accommodation_id
1	1
2	1
3	1
4	2
5	2
6	2
7	3
8	3
9	3
10	4
11	4
12	4
13	5
14	5
15	5
16	6
17	6
18	6
1	7
19	7
20	7
2	8
3	8
4	8
5	9
6	9
7	9
8	10
9	10
10	10
11	11
12	11
13	11
14	12
15	12
16	12
17	13
18	13
19	13
1	14
2	14
20	14
3	15
4	15
5	15
6	16
7	16
8	16
9	17
10	17
11	17
12	18
13	18
14	18
15	19
16	19
17	19
18	20
19	20
20	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:21:52	select*from accommodation_amenities_join LIMIT 0, 10000	60 row(s) returned	0.000 sec / 0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1,1)	1 row(s) affected	0.000 sec
2	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (2,1)	1 row(s) affected	0.016 sec
3	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (3,1)	1 row(s) affected	0.000 sec
4	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (4,2)	1 row(s) affected	0.000 sec
5	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (5,2)	1 row(s) affected	0.000 sec
6	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (6,2)	1 row(s) affected	0.000 sec
7	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (7,3)	1 row(s) affected	0.000 sec
8	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (8,3)	1 row(s) affected	0.000 sec
9	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (9,3)	1 row(s) affected	0.000 sec
10	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
11	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
12	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
13	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
14	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.016 sec
15	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
16	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
17	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.016 sec
18	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
19	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1...	1 row(s) affected	0.000 sec
20	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (2...	1 row(s) affected	0.015 sec
21	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1,7)	1 row(s) affected	0.000 sec
22	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (2,8)	1 row(s) affected	0.000 sec
23	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (3,8)	1 row(s) affected	0.000 sec
24	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (4,8)	1 row(s) affected	0.000 sec
25	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (5,9)	1 row(s) affected	0.000 sec
26	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (6,9)	1 row(s) affected	0.000 sec
27	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (7,9)	1 row(s) affected	0.000 sec
28	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (8,...	1 row(s) affected	0.000 sec

Output

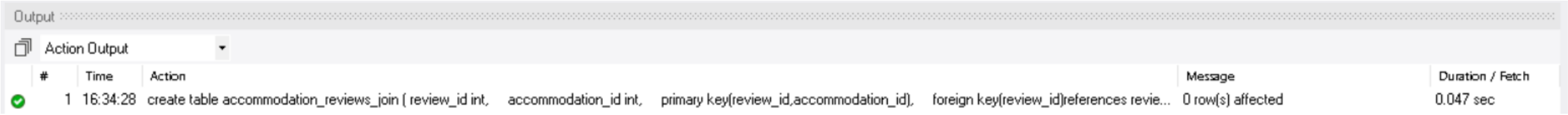
Action Output

#	Time	Action	Message	Duration / Fetch
34	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (14,12)	1 row(s) affected	0.000 sec
35	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (15,12)	1 row(s) affected	0.000 sec
36	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (16,12)	1 row(s) affected	0.000 sec
37	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (17,13)	1 row(s) affected	0.015 sec
38	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (18,13)	1 row(s) affected	0.000 sec
39	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (19,13)	1 row(s) affected	0.000 sec
40	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (20,14)	1 row(s) affected	0.016 sec
41	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (1,14)	1 row(s) affected	0.000 sec
42	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (2,14)	1 row(s) affected	0.000 sec
43	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (3,15)	1 row(s) affected	0.016 sec
44	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (4,15)	1 row(s) affected	0.000 sec
45	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (5,15)	1 row(s) affected	0.000 sec
46	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (6,16)	1 row(s) affected	0.000 sec
47	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (7,16)	1 row(s) affected	0.000 sec
48	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (8,16)	1 row(s) affected	0.000 sec
49	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (9,17)	1 row(s) affected	0.000 sec
50	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (10,17)	1 row(s) affected	0.000 sec
51	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (11,17)	1 row(s) affected	0.000 sec
52	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (12,18)	1 row(s) affected	0.000 sec
53	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (13,18)	1 row(s) affected	0.016 sec
54	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (14,18)	1 row(s) affected	0.000 sec
55	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (15,19)	1 row(s) affected	0.000 sec
56	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (16,19)	1 row(s) affected	0.000 sec
57	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (17,19)	1 row(s) affected	0.000 sec
58	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (18,20)	1 row(s) affected	0.000 sec
59	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (19,20)	1 row(s) affected	0.000 sec
60	16:19:41	insert into accommodation_amenities_join (accommodation_amenitie_id,accommodation_id) values (20,20)	1 row(s) affected	0.000 sec

Accommodation Review Join Table

```sql
create table accommodation_reviews_join (
    review_id int,
    accommodation_id int,
    primary key(review_id,accommodation_id),
    foreign key(review_id)references reviews(review_id),
    foreign key(accommodation_id)references accommodations(accommodation_id)
);
```

This Statement creates a Join Table for the Accommodations and the Accommodation Amenities.



```sql
insert into accommodation_reviews_join (review_id,accommodation_id) values (1,1);
insert into accommodation_reviews_join (review_id,accommodation_id) values (2,2);
insert into accommodation_reviews_join (review_id,accommodation_id) values (3,3);
insert into accommodation_reviews_join (review_id,accommodation_id) values (4,4);
insert into accommodation_reviews_join (review_id,accommodation_id) values (5,5);
insert into accommodation_reviews_join (review_id,accommodation_id) values (6,6);
insert into accommodation_reviews_join (review_id,accommodation_id) values (7,7);
insert into accommodation_reviews_join (review_id,accommodation_id) values (8,8);
insert into accommodation_reviews_join (review_id,accommodation_id) values (9,9);
insert into accommodation_reviews_join (review_id,accommodation_id) values (10,10);
insert into accommodation_reviews_join (review_id,accommodation_id) values (11,11);
insert into accommodation_reviews_join (review_id,accommodation_id) values (12,12);
insert into accommodation_reviews_join (review_id,accommodation_id) values (13,13);
insert into accommodation_reviews_join (review_id,accommodation_id) values (14,14);
insert into accommodation_reviews_join (review_id,accommodation_id) values (15,15);
insert into accommodation_reviews_join (review_id,accommodation_id) values (16,16);
insert into accommodation_reviews_join (review_id,accommodation_id) values (17,17);
insert into accommodation_reviews_join (review_id,accommodation_id) values (18,18);
insert into accommodation_reviews_join (review_id,accommodation_id) values (19,19);
insert into accommodation_reviews_join (review_id,accommodation_id) values (20,20);
select*from accommodation_reviews_join;
```

These Statements will insert all the Elements. In addition to that the select all statement verifies if Elements were inserted.

review_id	accommodation_id
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (1,1)	1 row(s) affected	0.015 sec
2	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (2,2)	1 row(s) affected	0.000 sec
3	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (3,3)	1 row(s) affected	0.000 sec
4	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (4,4)	1 row(s) affected	0.000 sec
5	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (5,5)	1 row(s) affected	0.015 sec
6	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (6,6)	1 row(s) affected	0.000 sec
7	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (7,7)	1 row(s) affected	0.000 sec
8	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (8,8)	1 row(s) affected	0.016 sec
9	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (9,9)	1 row(s) affected	0.000 sec
10	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (10,10)	1 row(s) affected	0.000 sec
11	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (11,11)	1 row(s) affected	0.000 sec
12	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (12,12)	1 row(s) affected	0.016 sec
13	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (13,13)	1 row(s) affected	0.000 sec
14	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (14,14)	1 row(s) affected	0.000 sec
15	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (15,15)	1 row(s) affected	0.000 sec
16	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (16,16)	1 row(s) affected	0.000 sec
17	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (17,17)	1 row(s) affected	0.016 sec
18	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (18,18)	1 row(s) affected	0.000 sec
19	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (19,19)	1 row(s) affected	0.000 sec
20	16:36:24	insert into accommodation_reviews_join (review_id,accommodation_id) values (20,20)	1 row(s) affected	0.000 sec

Output

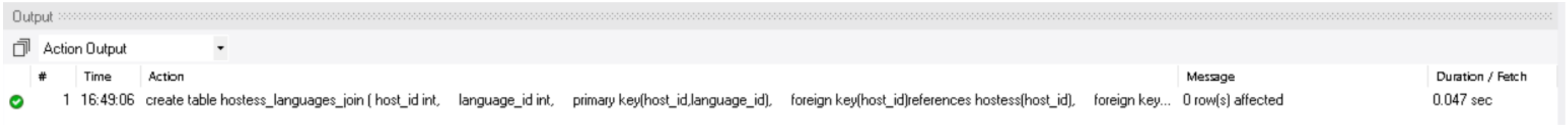
Action Output

#	Time	Action	Message	Duration / Fetch
1	16:36:58	select*from accommodation_reviews_join LIMIT 0, 10000	20 row(s) returned	0.000 sec / 0.000 sec

Host Languages Join Table

```sql
create table hostess_languages_join (
    host_id int,
    language_id int,
    primary key(host_id,language_id),
    foreign key(host_id)references hostess(host_id),
    foreign key(language_id)references languages(language_id)
);
```

This Statement creates a Join Table for the Hosts and the Languages.



```
1  • insert into hostess_languages_join (host_id,language_id) values (1,2);
2  • insert into hostess_languages_join (host_id,language_id) values (2,4);
3  • insert into hostess_languages_join (host_id,language_id) values (2,2);
4  • insert into hostess_languages_join (host_id,language_id) values (3,6);
5  • insert into hostess_languages_join (host_id,language_id) values (3,2);
6  • insert into hostess_languages_join (host_id,language_id) values (4,2);
7  • insert into hostess_languages_join (host_id,language_id) values (5,8);
8  • insert into hostess_languages_join (host_id,language_id) values (5,2);
9  • insert into hostess_languages_join (host_id,language_id) values (6,2);
10 • insert into hostess_languages_join (host_id,language_id) values (7,3);
11 • insert into hostess_languages_join (host_id,language_id) values (7,2);
12 • insert into hostess_languages_join (host_id,language_id) values (8,7);
13 • insert into hostess_languages_join (host_id,language_id) values (8,2);
14 • insert into hostess_languages_join (host_id,language_id) values (9,4);
15 • insert into hostess_languages_join (host_id,language_id) values (9,2);
16 • insert into hostess_languages_join (host_id,language_id) values (10,13);
17 • insert into hostess_languages_join (host_id,language_id) values (10,2);
18 • insert into hostess_languages_join (host_id,language_id) values (11,4);
19 • insert into hostess_languages_join (host_id,language_id) values (11,2);
20 • insert into hostess_languages_join (host_id,language_id) values (12,2);
21 • insert into hostess_languages_join (host_id,language_id) values (13,1);
22 • insert into hostess_languages_join (host_id,language_id) values (13,2);
23 • insert into hostess_languages_join (host_id,language_id) values (14,4);
24 • insert into hostess_languages_join (host_id,language_id) values (14,2);
25 • insert into hostess_languages_join (host_id,language_id) values (15,6);
26 • insert into hostess_languages_join (host_id,language_id) values (15,2);
27 • insert into hostess_languages_join (host_id,language_id) values (16,2);
28 • insert into hostess_languages_join (host_id,language_id) values (17,7);
29 • insert into hostess_languages_join (host_id,language_id) values (17,2);
```

```
30 • insert into hostess_languages_join (host_id,language_id) values (18,8);
31 • insert into hostess_languages_join (host_id,language_id) values (18,2);
32 • insert into hostess_languages_join (host_id,language_id) values (19,2);
33 • insert into hostess_languages_join (host_id,language_id) values (20,1);
34 • insert into hostess_languages_join (host_id,language_id) values (20,2);
35 • select*from hostess_languages_join;
```

These Statements will insert all the Elements. In addition to that the select all statement verifies if Elements were inserted.

host_id	language_id
13	1
20	1
1	2
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	2
18	2
19	2
20	2
7	3
2	4
9	4
11	4
14	4
3	6
15	6
8	7
17	7
5	8
18	8
10	13

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:52:52	select*from hostess_languages_join LIMIT 0, 10000	34 row(s) returned	0.000 sec / 0.000 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:51:28	insert into hostess_languages_join (host_id,language_id) values (1,2)	1 row(s) affected	0.032 sec
2	16:51:28	insert into hostess_languages_join (host_id,language_id) values (2,4)	1 row(s) affected	0.000 sec
3	16:51:28	insert into hostess_languages_join (host_id,language_id) values (2,2)	1 row(s) affected	0.000 sec
4	16:51:28	insert into hostess_languages_join (host_id,language_id) values (3,6)	1 row(s) affected	0.000 sec
5	16:51:28	insert into hostess_languages_join (host_id,language_id) values (3,2)	1 row(s) affected	0.016 sec
6	16:51:28	insert into hostess_languages_join (host_id,language_id) values (4,2)	1 row(s) affected	0.000 sec
7	16:51:28	insert into hostess_languages_join (host_id,language_id) values (5,8)	1 row(s) affected	0.000 sec
8	16:51:28	insert into hostess_languages_join (host_id,language_id) values (5,2)	1 row(s) affected	0.000 sec
9	16:51:28	insert into hostess_languages_join (host_id,language_id) values (6,2)	1 row(s) affected	0.000 sec
10	16:51:28	insert into hostess_languages_join (host_id,language_id) values (7,3)	1 row(s) affected	0.000 sec
11	16:51:28	insert into hostess_languages_join (host_id,language_id) values (7,2)	1 row(s) affected	0.000 sec
12	16:51:28	insert into hostess_languages_join (host_id,language_id) values (8,7)	1 row(s) affected	0.000 sec
13	16:51:28	insert into hostess_languages_join (host_id,language_id) values (8,2)	1 row(s) affected	0.000 sec
14	16:51:28	insert into hostess_languages_join (host_id,language_id) values (9,4)	1 row(s) affected	0.015 sec
15	16:51:28	insert into hostess_languages_join (host_id,language_id) values (9,2)	1 row(s) affected	0.000 sec
16	16:51:28	insert into hostess_languages_join (host_id,language_id) values (10,13)	1 row(s) affected	0.000 sec
17	16:51:28	insert into hostess_languages_join (host_id,language_id) values (10,2)	1 row(s) affected	0.000 sec
18	16:51:28	insert into hostess_languages_join (host_id,language_id) values (11,4)	1 row(s) affected	0.000 sec
19	16:51:28	insert into hostess_languages_join (host_id,language_id) values (11,2)	1 row(s) affected	0.000 sec
20	16:51:28	insert into hostess_languages_join (host_id,language_id) values (12,2)	1 row(s) affected	0.016 sec
21	16:51:28	insert into hostess_languages_join (host_id,language_id) values (13,1)	1 row(s) affected	0.000 sec
22	16:51:28	insert into hostess_languages_join (host_id,language_id) values (13,2)	1 row(s) affected	0.000 sec
23	16:51:28	insert into hostess_languages_join (host_id,language_id) values (14,4)	1 row(s) affected	0.015 sec
24	16:51:28	insert into hostess_languages_join (host_id,language_id) values (14,2)	1 row(s) affected	0.000 sec
25	16:51:28	insert into hostess_languages_join (host_id,language_id) values (15,6)	1 row(s) affected	0.000 sec
26	16:51:28	insert into hostess_languages_join (host_id,language_id) values (15,2)	1 row(s) affected	0.000 sec
27	16:51:28	insert into hostess_languages_join (host_id,language_id) values (16,2)	1 row(s) affected	0.000 sec
28	16:51:28	insert into hostess_languages_join (host_id,language_id) values (17,7)	1 row(s) affected	0.016 sec

✓	29	16:51:28	insert into hostess_languages_join (host_id,language_id) values (17,2)	1 row(s) affected	0.000 sec
✓	30	16:51:28	insert into hostess_languages_join (host_id,language_id) values (18,8)	1 row(s) affected	0.000 sec
✓	31	16:51:28	insert into hostess_languages_join (host_id,language_id) values (18,2)	1 row(s) affected	0.000 sec
✓	32	16:51:28	insert into hostess_languages_join (host_id,language_id) values (19,2)	1 row(s) affected	0.000 sec
✓	33	16:51:28	insert into hostess_languages_join (host_id,language_id) values (20,1)	1 row(s) affected	0.000 sec
✓	34	16:51:28	insert into hostess_languages_join (host_id,language_id) values (20,2)	1 row(s) affected	0.000 sec

Additional Select Queries/Test-Cases

Query Applying the Promo Codes to the Accommodation Prices

```
1  select promocodes.promo_code,promocodes.discount,accommodations.price_per_night,
2  accommodations.price_per_night- promocodes.discount*accommodations.price_per_night as calculated_amount, accommodations.accommodation_id
3  from promocodes join accommodations on promocodes.promo_code_id = accommodations.promo_code_id;
4
```

promo_code	discount	price_per_night	calculated_amount	accommodation_id
KRKKnM7D	0.05	69	65.55	1
vqfxfWRe	0.05	74	70.30	2
JjZmNpCE	0.05	50	47.50	3
uI0D3m0n	0.05	120	114.00	4
nRwRoKDu	0.10	82	73.80	5
LDzzxMC9	0.10	57	51.30	6
5v35sI2j	0.10	71	63.90	7
ohpzQIKJ	0.10	100	90.00	8
wRrPuJRg	0.15	93	79.05	9
ayjn5Se9	0.15	51	43.35	10
9LYyF5oA	0.15	30	25.50	11
c8YhOMvJ	0.15	45	38.25	12
R1hVeGVQ	0.20	54	43.20	13
8FZ2SHFK	0.20	84	67.20	14
MG6HaAw3	0.20	89	71.20	15
EGzb16CN	0.20	48	38.40	16
UUOKiAjy	0.25	97	72.75	17
50umPLjq	0.25	118	88.50	18
jeHAYuSL	0.25	106	79.50	19
PVkCwMc4	0.25	56	42.00	20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:24:23	select promocodes.promo_code,promocodes.discount,accommodations.price_per_night, accommodations.price_per_night- promocodes.discount*accommodations.price...	20 row(s) returned	0.000 sec / 0.000 sec

Query Applying the Currency Conversion to the Accommodation Prices

```
1  select accommodations.accommodation_id , accommodations.currency_id ,accommodations.price_per_night, currencies.currency_name ,currencies.exchange_rate,
2  accommodations.price_per_night*currencies.exchange_rate as converted_amount
3  from accommodations join currencies on accommodations.currency_id= currencies.currency_id;
```

accommodation_id	currency_id	price_per_night	currency_name	exchange_rate	converted_amount
1	1	69	USD	NULL	NULL
11	1	30	USD	NULL	NULL
2	2	74	EUR	0.8520	63.0480
6	2	57	EUR	0.8520	48.5640
15	2	89	EUR	0.8520	75.8280
19	2	106	EUR	0.8520	90.3120
20	2	56	EUR	0.8520	47.7120
16	3	48	JPY	109.6200	5261.7600
12	4	45	GBP	0.7320	32.9400
4	5	120	AUD	0.7450	89.4000
3	7	50	THB	33.4530	1672.6500
7	8	71	RON	4.2170	299.4070
8	9	100	MXN	20.0370	2003.7000
10	10	51	COP	3.8350	195.5850
13	11	54	CAD	1.2740	68.7960
14	12	84	BRL	5.2760	443.1840
17	13	97	INR	73.8160	7160.1520
18	14	118	KES	110.3890	13025.9020
5	15	82	CNY	6.4610	529.8020
9	16	93	VUV	112.2980	10443.7140

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:28:52	select accommodations.accommodation_id , accommodations.currency_id ,accommodations.price_per_night, currencies.currency_name ,currencies.exchange_rate, ac...	20 row(s) returned	0.000 sec / 0.000 sec

Finalization Phase

In the following text, I am going to highlight and describe the database, in terms of management functionality. Over that I will provide the metadata for the database, in general the number of tables and the size of the database. Furthermore, the data dictionary from phase 1 will be updated to according to the state of the database in phase 3.

This text will not describe how the database works, as this was previously described in earlier phases. But rather highlight how the management of the database works. I will highlight the database management functionality by describing how the CRUD operations are performed in the database.

The Create operation is expected to be understood as insert statements in the database. If for example there will be an additional Accommodation available soon, one can insert via insert statements the available information in the database following the database design.

The Read operation refers to select statements. In the case of the present database these select statements could be the query for applying the promo codes or the query applying the currency conversion, or any other query for retrieving information about the data in the database.

Next up is the Update operation. If Information needs to be updated using the update statement this will induce a change to an existing record. Because a large part of the data stored in the database is in some way related or referenced to other records it is very important to ensure, that all technical and referential integrity conditions are met. To meet these conditions, one needs to specify the behaviour of the DBMS when updating. For example, with the statements "on cascade" or when deleting records "on delete”. This functionality needs to be added to the database as for now this potential risk is unsolved. This functionality equally applies to the Delete operation.

The Database contains 24 tables, and its size is 1.1MiB or 1.1534336 MB. Additional meta data will be available in the updated data dictionary.

schema_nm	table_nm	obj_typ	ord	is_key	column_nm	data_typ	nullable
airbnb	accommodation_amenities_join	TBL	1	FK,PK	accommodation_amenitie_id	int(10)	NOT NULL
airbnb	accommodation_amenities_join	TBL	2	FK,PK	accommodation_id	int(10)	NOT NULL
airbnb	accommodation_images_join	TBL	1	FK,PK	accommodation_image_id	int(10)	NOT NULL
airbnb	accommodation_images_join	TBL	2	FK,PK	accommodation_id	int(10)	NOT NULL
airbnb	accommodation_reviews_join	TBL	1	FK,PK	review_id	int(10)	NOT NULL
airbnb	accommodation_reviews_join	TBL	2	FK,PK	accommodation_id	int(10)	NOT NULL
airbnb	accommodationadresses	TBL	1	PK,UK	accommodation_adresse_id	int(10)	NOT NULL
airbnb	accommodationadresses	TBL	2	FK	city_id	int(10)	NULL
airbnb	accommodationadresses	TBL	3	FK	country_id	int(10)	NULL
airbnb	accommodationadresses	TBL	4		street_name	varchar(35)	NULL
airbnb	accommodationadresses	TBL	5		house_number	varchar(3)	NULL
airbnb	accommodationamenitites	TBL	1	PK,UK	accommodation_amenitie_id	int(10)	NOT NULL
airbnb	accommodationamenitites	TBL	2		amenitie	varchar(35)	NULL
airbnb	accommodationdescriptions	TBL	1	PK,UK	accommodation_description_id	int(10)	NOT NULL
airbnb	accommodationdescriptions	TBL	2		acc_description	text(65535)	NULL
airbnb	accommodationimages	TBL	1	PK,UK	accommodation_image_id	int(10)	NOT NULL
airbnb	accommodationimages	TBL	2		image	varchar(35)	NULL
airbnb	accommodationroomtypes	TBL	1	PK,UK	accommodation_room_type_id	int(10)	NOT NULL
airbnb	accommodationroomtypes	TBL	2		roomType	varchar(35)	NULL
airbnb	accommodations	TBL	1	PK,UK	accommodation_id	int(10)	NOT NULL
airbnb	accommodations	TBL	2		price_per_night	decimal(10,0)	NULL
airbnb	accommodations	TBL	3		room_count	int(10)	NULL
airbnb	accommodations	TBL	4		bed_count	int(10)	NULL
airbnb	accommodations	TBL	5	FK	accommodation_adresse_id	int(10)	NULL
airbnb	accommodations	TBL	6	FK	accommodation_description_id	int(10)	NULL
airbnb	accommodations	TBL	7	FK	accommodation_room_type_id	int(10)	NULL
airbnb	accommodations	TBL	8	FK	accommodation_type_id	int(10)	NULL
airbnb	accommodations	TBL	9	FK	host_id	int(10)	NULL
airbnb	accommodations	TBL	10	FK	currency_id	int(10)	NULL
airbnb	accommodations	TBL	11	FK	promo_code_id	int(10)	NULL
airbnb	accommodationtypes	TBL	1	PK,UK	accommodation_type_id	int(10)	NOT NULL
airbnb	accommodationtypes	TBL	2		acc_type	varchar(35)	NULL
airbnb	adresses	TBL	1	PK,UK	adress_id	int(10)	NOT NULL
airbnb	adresses	TBL	2		street_name	varchar(35)	NULL
airbnb	adresses	TBL	3		house_number	varchar(3)	NULL
airbnb	adresses	TBL	4	FK	city_id	int(10)	NULL
airbnb	adresses	TBL	5	FK	country_id	int(10)	NULL
airbnb	bookings	TBL	1	PK,UK	booking_id	int(10)	NOT NULL
airbnb	bookings	TBL	2		start_date	date(3)	NULL
airbnb	bookings	TBL	3		end_date	date(3)	NULL
airbnb	bookings	TBL	4		num_nights	int(10)	NULL

airbnb	bookings	TBL	5	FK	accommodation_id	int(10)	NULL
airbnb	bookings	TBL	6	FK	user_id	int(10)	NULL
airbnb	cities	TBL	1	PK,UK	city_id	int(10)	NOT NULL
airbnb	cities	TBL	2		city_name	varchar(35)	NULL
airbnb	cities	TBL	3	FK	country_id	int(10)	NULL
airbnb	countries	TBL	1	PK,UK	country_id	int(10)	NOT NULL
airbnb	countries	TBL	2		country_code	varchar(3)	NULL
airbnb	countries	TBL	3		country_name	varchar(35)	NULL
airbnb	currencies	TBL	1	PK,UK	currency_id	int(10)	NOT NULL
airbnb	currencies	TBL	2		currency_name	varchar(35)	NULL
airbnb	currencies	TBL	3		exchange_rate	decimal(5,4)	NULL
airbnb	currencies	TBL	3		exchange_rate	decimal(19,4)	NULL
airbnb	hostess	TBL	1	PK,UK	host_id	int(10)	NOT NULL
airbnb	hostess	TBL	2	FK	user_id	int(10)	NULL
airbnb	hostess_languages_join	TBL	1	FK,PK	host_id	int(10)	NOT NULL
airbnb	hostess_languages_join	TBL	2	FK,PK	language_id	int(10)	NOT NULL
airbnb	languages	TBL	1	PK,UK	language_id	int(10)	NOT NULL
airbnb	languages	TBL	2		language_name	varchar(35)	NULL
airbnb	promocodes	TBL	1	PK,UK	promo_code_id	int(10)	NOT NULL
airbnb	promocodes	TBL	2		promo_code	varchar(35)	NULL
airbnb	promocodes	TBL	3		discount	decimal(5,2)	NULL
airbnb	reviewbodys	TBL	1	PK,UK	review_body_id	int(10)	NOT NULL
airbnb	reviewbodys	TBL	2		reviewbBody	text(65535)	NULL
airbnb	reviewratings	TBL	1	PK,UK	review_rating_id	int(10)	NOT NULL
airbnb	reviewratings	TBL	2		reviewRating	decimal(2,1)	NULL
airbnb	reviews	TBL	1	PK,UK	review_id	int(10)	NOT NULL
airbnb	reviews	TBL	2	FK	review_rating_id	int(10)	NULL
airbnb	reviews	TBL	3	FK	review_body_id	int(10)	NULL
airbnb	transactions	TBL	1	PK,UK	transaction_id	int(10)	NOT NULL
airbnb	transactions	TBL	2		payment_date	date(3)	NULL
airbnb	transactions	TBL	3		transfer_date	date(3)	NULL
airbnb	transactions	TBL	4		amount	decimal(10,0)	NULL
airbnb	transactions	TBL	5	FK	user_id	int(10)	NULL
airbnb	transactions	TBL	6	FK	host_id	int(10)	NULL
airbnb	transactions	TBL	7	FK	booking_id	int(10)	NULL
airbnb	users	TBL	1	PK,UK	user_id	int(10)	NOT NULL
airbnb	users	TBL	2		first_name	varchar(35)	NULL
airbnb	users	TBL	3		last_name	varchar(35)	NULL
airbnb	users	TBL	4	UK	email	varchar(35)	NULL
airbnb	users	TBL	5		date_of_birth	date(3)	NULL
airbnb	users	TBL	6	FK	adress_id	int(10)	NULL