PROJECT: BUILD A DATAMART IN SQL

Subject code: DLBDSPBDM01

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Stage 2: Development Phase

Overview

1) Introduction
2) SQL create scripts and test-cases
3) Insert statements

Introduction

This project is developed in three stages and aims at creating a sample database for a hotel-operating website similar to the one implemented in Airbnb application.

This presentation covers the progress of developing the database, which is based off an Entity-Relationship diagram, that served as a blueprint for the development. Over 30 tables were created in the process, with the main tables that the application was built around being *user_account* and *property*. To make sure that the database operates as expected, several test cases were written to test the database, which has mock data inserted into it. The outcome of the tests, as well as documentation on tables that exist within the system can be found in this presentation below.

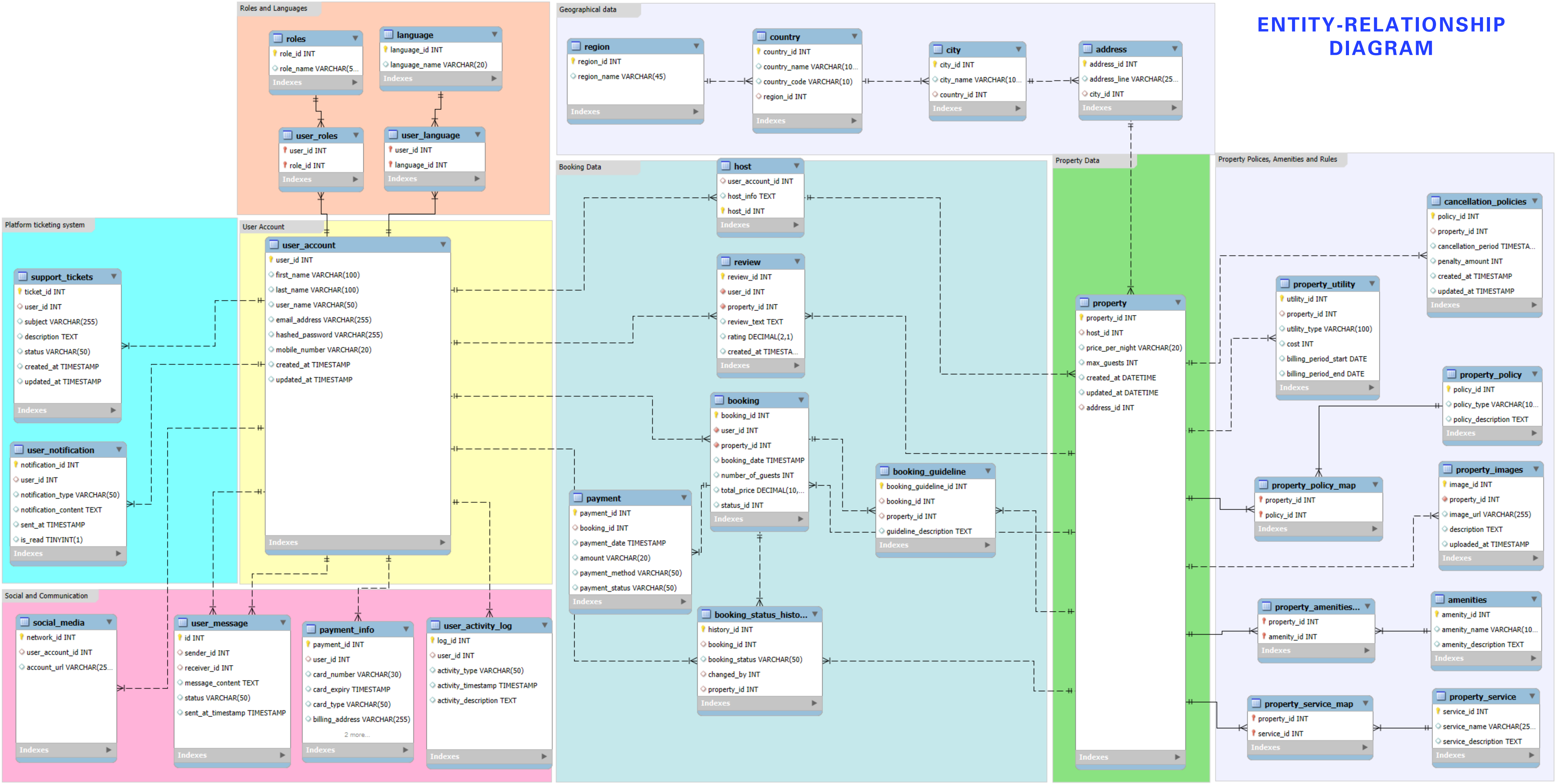
Tools used to create the project

MySQL Workbench – designing and creating the database. Mostly used for the management.

Mockaroo – tool that helped creating data for test cases and mock data.

dbForge Studio for MySQL – creating data to populate the database with.

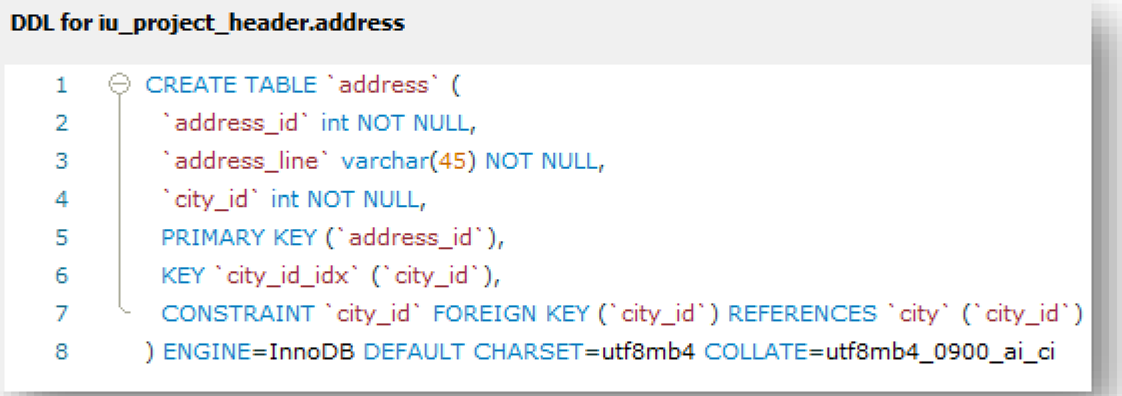
ENTITY-RELATIONSHIP DIAGRAM



SQL scripts: Table creation and data insertion

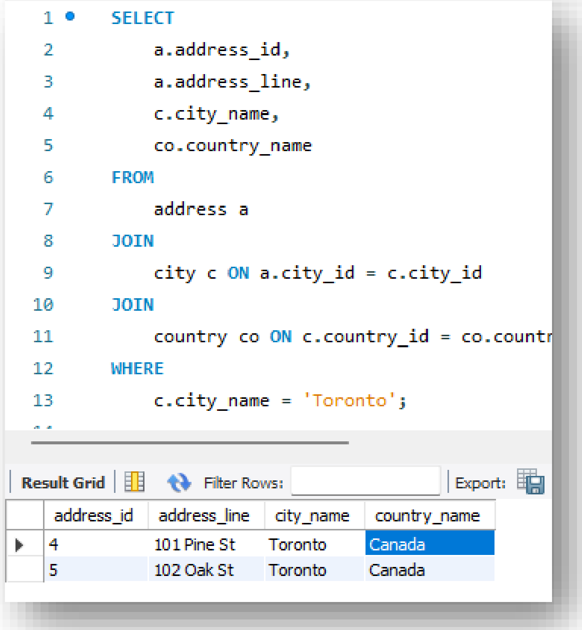
Address Table

Create table



DDL for iu_project_header.address

```
CREATE TABLE `address` (
  `address_id` int NOT NULL,
  `address_line` varchar(45) NOT NULL,
  `city_id` int NOT NULL,
  PRIMARY KEY (`address_id`),
  KEY `city_id_idx` (`city_id`),
  CONSTRAINT `city_id` FOREIGN KEY (`city_id`) REFERENCES `city` (`city_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

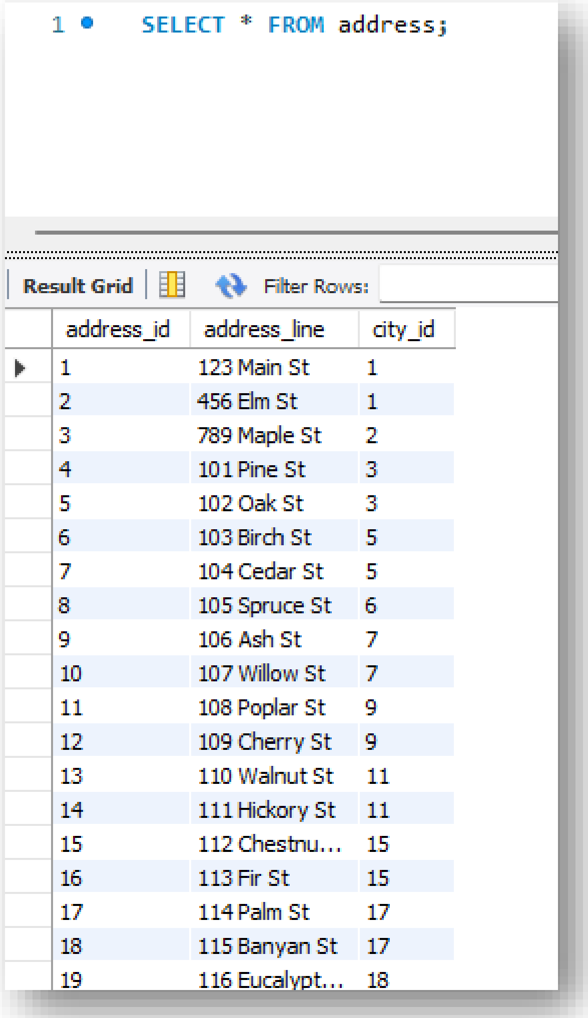


```
SELECT
    a.address_id,
    a.address_line,
    c.city_name,
    co.country_name
FROM
    address a
JOIN
    city c ON a.city_id = c.city_id
JOIN
    country co ON c.country_id = co.countr
WHERE
    c.city_name = 'Toronto';
```

address_id	address_line	city_name	country_name
4	101 Pine St	Toronto	Canada
5	102 Oak St	Toronto	Canada

This is a query that shows all the addresses that are situated in Toronto city

Query showing data

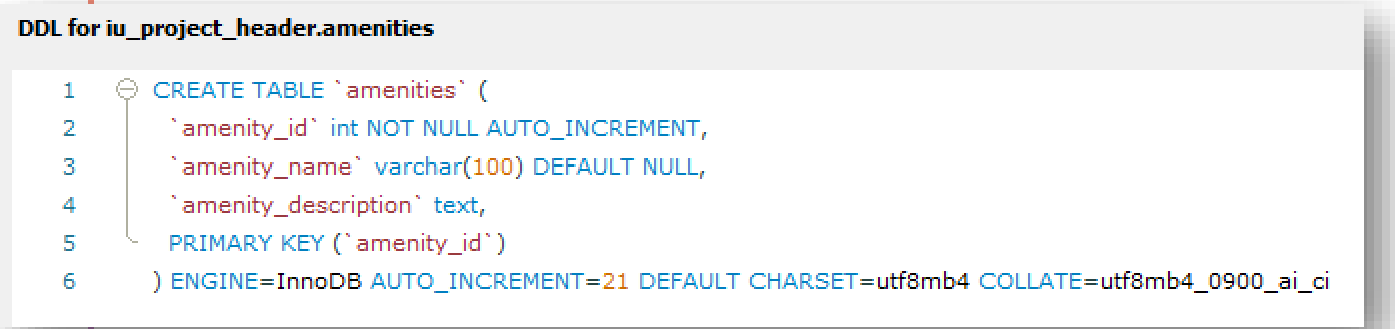


```
SELECT * FROM address;
```

address_id	address_line	city_id
1	123 Main St	1
2	456 Elm St	1
3	789 Maple St	2
4	101 Pine St	3
5	102 Oak St	3
6	103 Birch St	5
7	104 Cedar St	5
8	105 Spruce St	6
9	106 Ash St	7
10	107 Willow St	7
11	108 Poplar St	9
12	109 Cherry St	9
13	110 Walnut St	11
14	111 Hickory St	11
15	112 Chestnu...	15
16	113 Fir St	15
17	114 Palm St	17
18	115 Banyan St	17
19	116 Eucalypt...	18

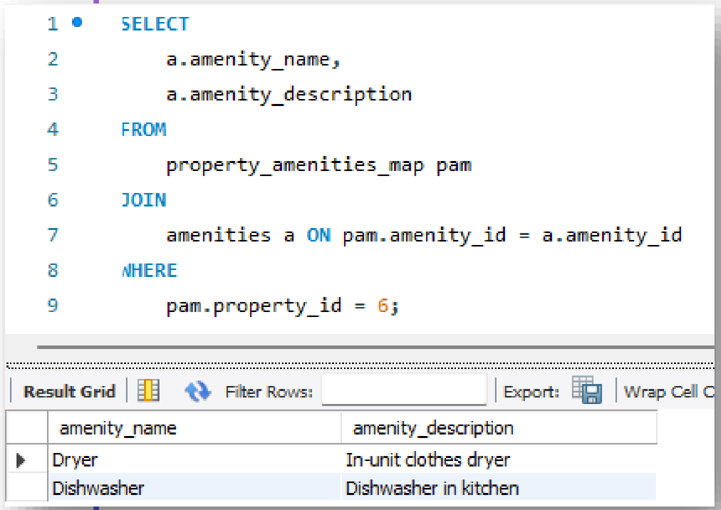
Amenities Table

Create table



DDL for iu_project_header.amenities

```
CREATE TABLE `amenities` (
  `amenity_id` int NOT NULL AUTO_INCREMENT,
  `amenity_name` varchar(100) DEFAULT NULL,
  `amenity_description` text,
  PRIMARY KEY (`amenity_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

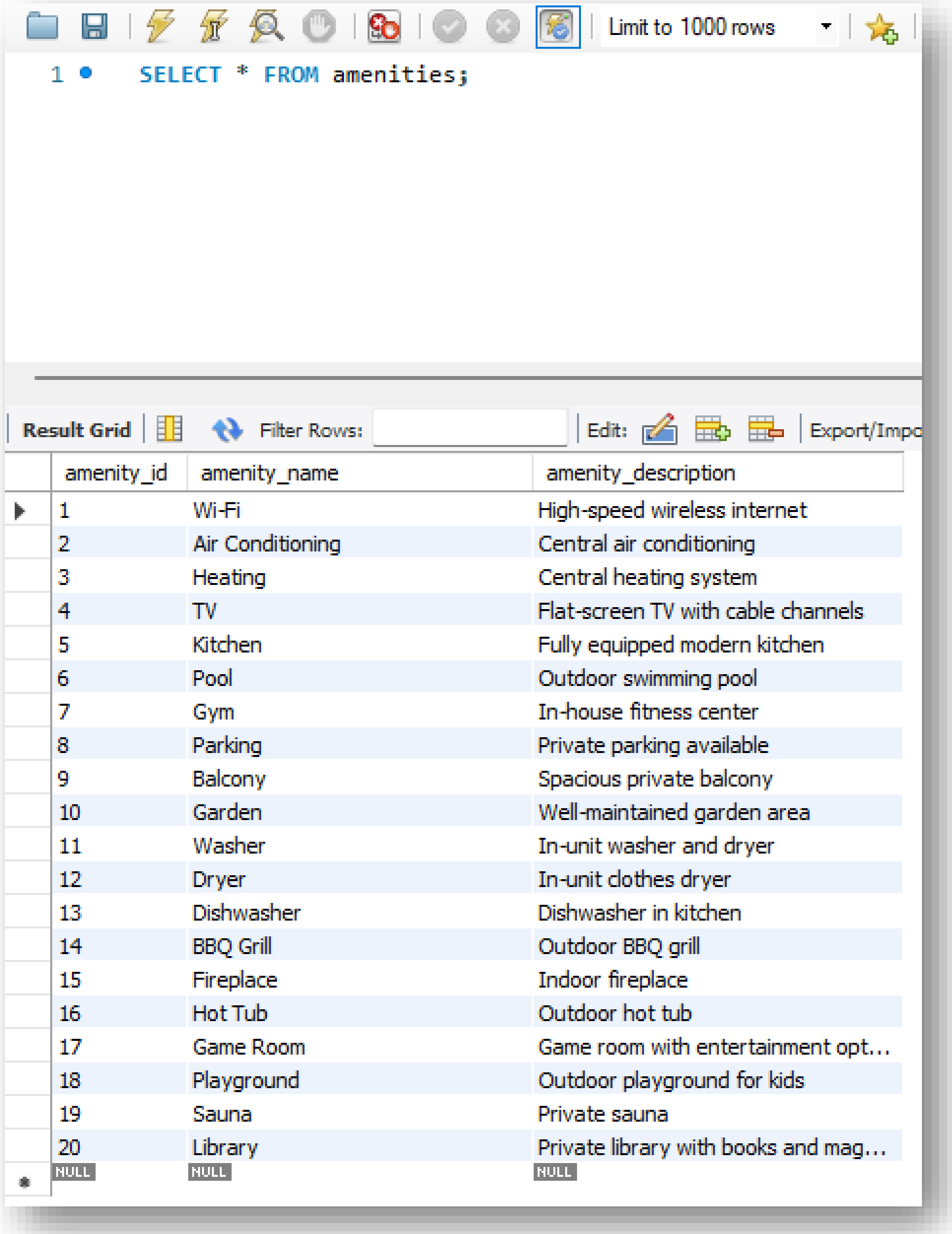


```
SELECT
    a.amenity_name,
    a.amenity_description
FROM
    property_amenities_map pam
JOIN
    amenities a ON pam.amenity_id = a.amenity_id
WHERE
    pam.property_id = 6;
```

amenity_name	amenity_description
Dryer	In-unit clothes dryer
Dishwasher	Dishwasher in kitchen

This query shows the amenities that can be found in property_id 6

Query showing data

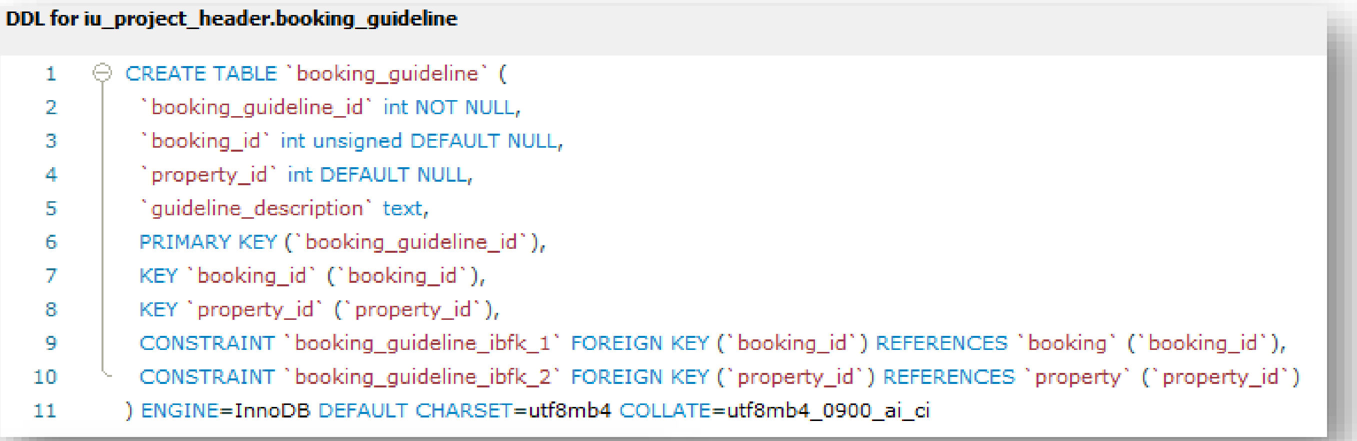


```
SELECT * FROM amenities;
```

amenity_id	amenity_name	amenity_description
1	Wi-Fi	High-speed wireless internet
2	Air Conditioning	Central air conditioning
3	Heating	Central heating system
4	TV	Flat-screen TV with cable channels
5	Kitchen	Fully equipped modern kitchen
6	Pool	Outdoor swimming pool
7	Gym	In-house fitness center
8	Parking	Private parking available
9	Balcony	Spacious private balcony
10	Garden	Well-maintained garden area
11	Washer	In-unit washer and dryer
12	Dryer	In-unit clothes dryer
13	Dishwasher	Dishwasher in kitchen
14	BBQ Grill	Outdoor BBQ grill
15	Fireplace	Indoor fireplace
16	Hot Tub	Outdoor hot tub
17	Game Room	Game room with entertainment opt...
18	Playground	Outdoor playground for kids
19	Sauna	Private sauna
20	Library	Private library with books and mag...
NULL	NULL	NULL

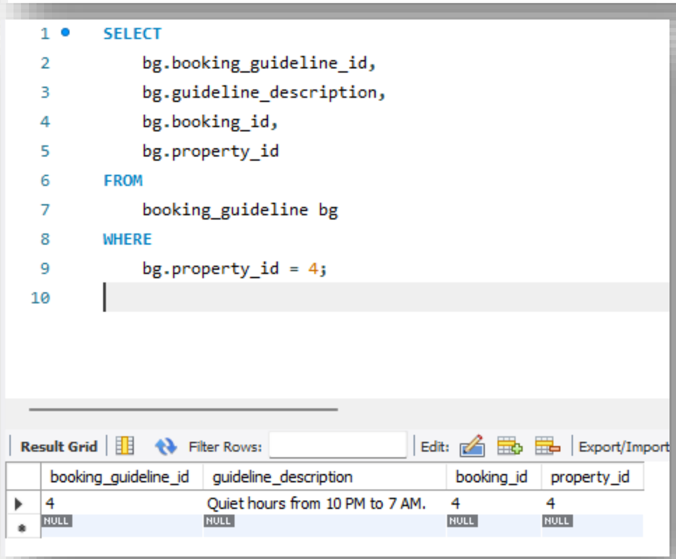
Booking Guideline Table

Create table



DDL for iu_project_header.booking_guideline

```sql
CREATE TABLE `booking_guideline` (
  `booking_guideline_id` int NOT NULL,
  `booking_id` int unsigned DEFAULT NULL,
  `property_id` int DEFAULT NULL,
  `guideline_description` text,
  PRIMARY KEY (`booking_guideline_id`),
  KEY `booking_id` (`booking_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `booking_guideline_ibfk_1` FOREIGN KEY (`booking_id`) REFERENCES `booking` (`booking_id`),
  CONSTRAINT `booking_guideline_ibfk_2` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

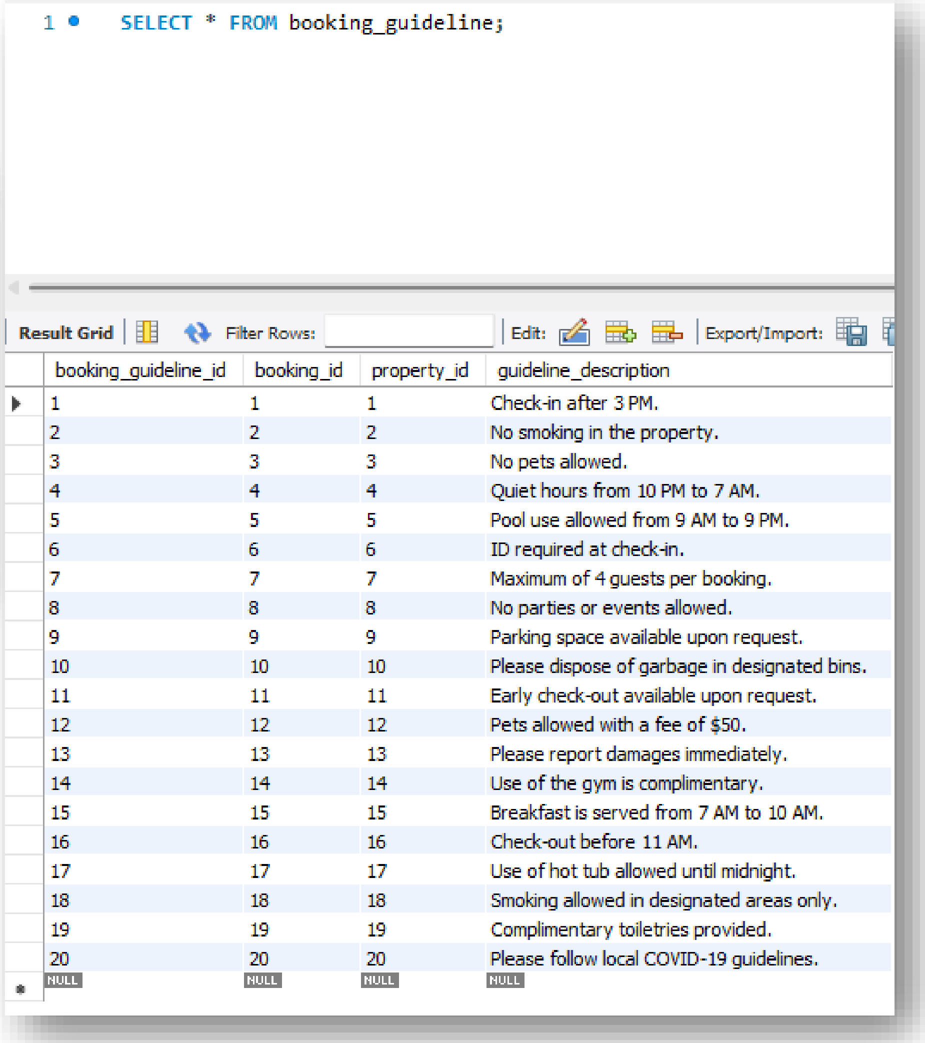


```sql
SELECT
    bg.booking_guideline_id,
    bg.guideline_description,
    bg.booking_id,
    bg.property_id
FROM
    booking_guideline bg
WHERE
    bg.property_id = 4;
```

booking_guideline_id	guideline_description	booking_id	property_id
4	Quiet hours from 10 PM to 7 AM.	4	4
NULL	NULL	NULL	NULL

This query shows what guideline does property 4 have

Query showing data

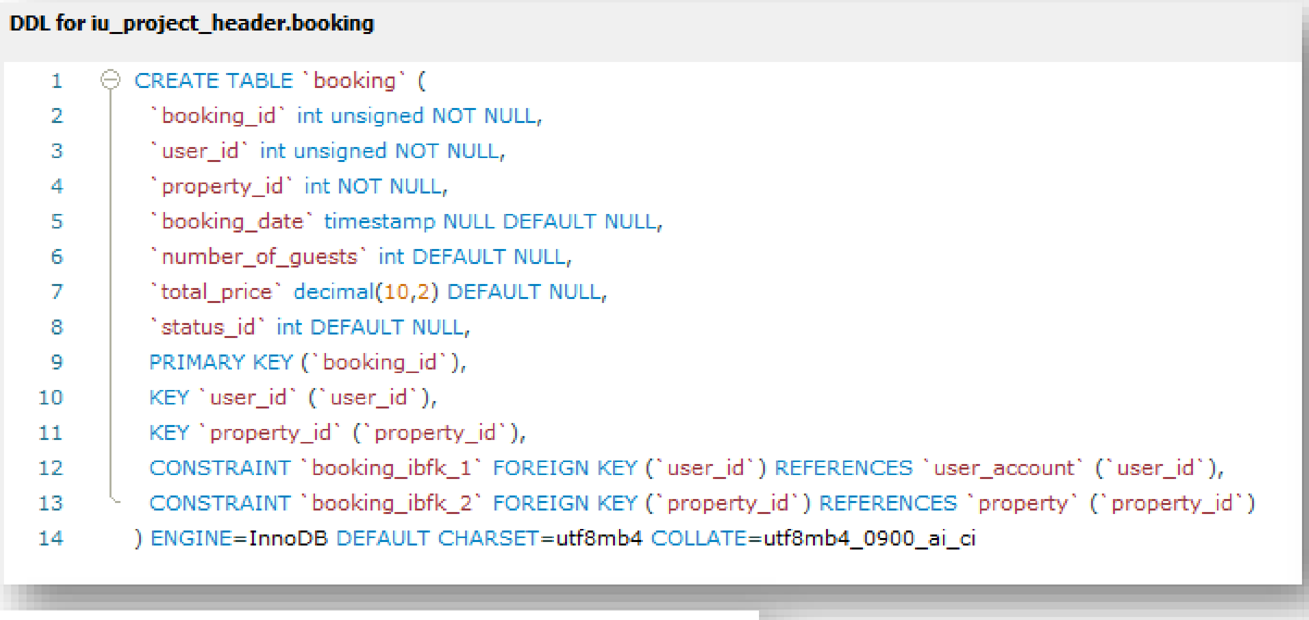


```sql
SELECT * FROM booking_guideline;
```

booking_guideline_id	booking_id	property_id	guideline_description
1	1	1	Check-in after 3 PM.
2	2	2	No smoking in the property.
3	3	3	No pets allowed.
4	4	4	Quiet hours from 10 PM to 7 AM.
5	5	5	Pool use allowed from 9 AM to 9 PM.
6	6	6	ID required at check-in.
7	7	7	Maximum of 4 guests per booking.
8	8	8	No parties or events allowed.
9	9	9	Parking space available upon request.
10	10	10	Please dispose of garbage in designated bins.
11	11	11	Early check-out available upon request.
12	12	12	Pets allowed with a fee of $50.
13	13	13	Please report damages immediately.
14	14	14	Use of the gym is complimentary.
15	15	15	Breakfast is served from 7 AM to 10 AM.
16	16	16	Check-out before 11 AM.
17	17	17	Use of hot tub allowed until midnight.
18	18	18	Smoking allowed in designated areas only.
19	19	19	Complimentary toiletries provided.
20	20	20	Please follow local COVID-19 guidelines.
NULL	NULL	NULL	NULL

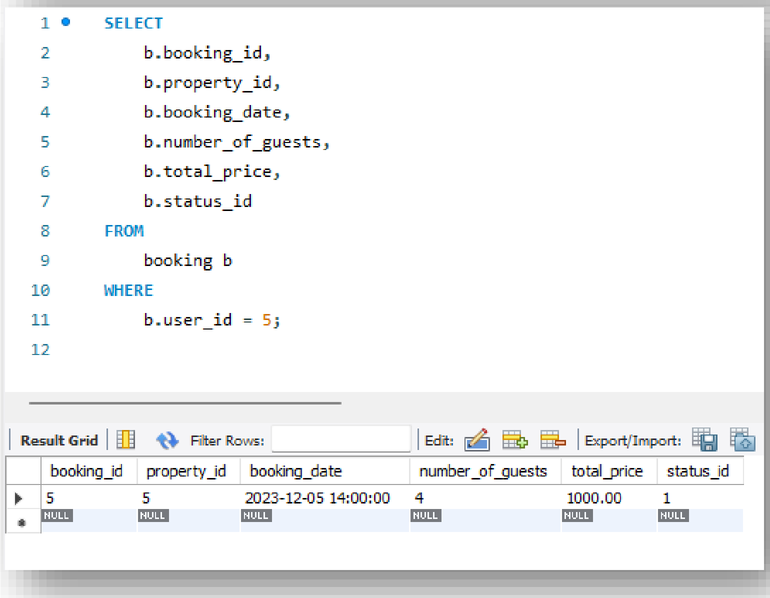
Booking Table

Create table



DDL for iu_project_header.booking

```sql
CREATE TABLE `booking` (
  `booking_id` int unsigned NOT NULL,
  `user_id` int unsigned NOT NULL,
  `property_id` int NOT NULL,
  `booking_date` timestamp NULL DEFAULT NULL,
  `number_of_guests` int DEFAULT NULL,
  `total_price` decimal(10,2) DEFAULT NULL,
  `status_id` int DEFAULT NULL,
  PRIMARY KEY (`booking_id`),
  KEY `user_id` (`user_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `booking_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `booking_ibfk_2` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

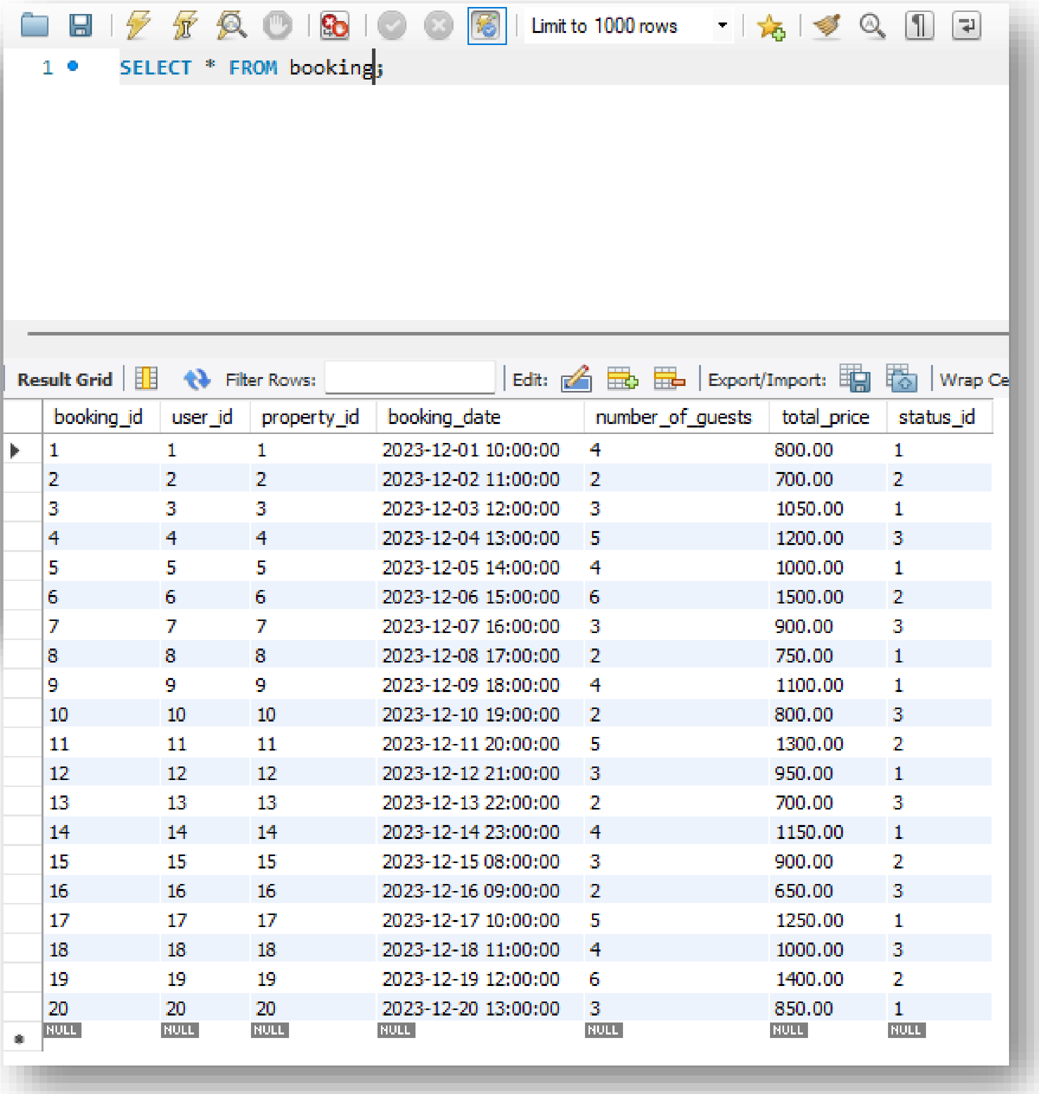


```sql
SELECT
    b.booking_id,
    b.property_id,
    b.booking_date,
    b.number_of_guests,
    b.total_price,
    b.status_id
FROM
    booking b
WHERE
    b.user_id = 5;
```

booking_id	property_id	booking_date	number_of_guests	total_price	status_id
5	5	2023-12-05 14:00:00	4	1000.00	1
NULL	NULL	NULL	NULL	NULL	NULL

Query showing the booking that user_id number 5 has

Query showing data

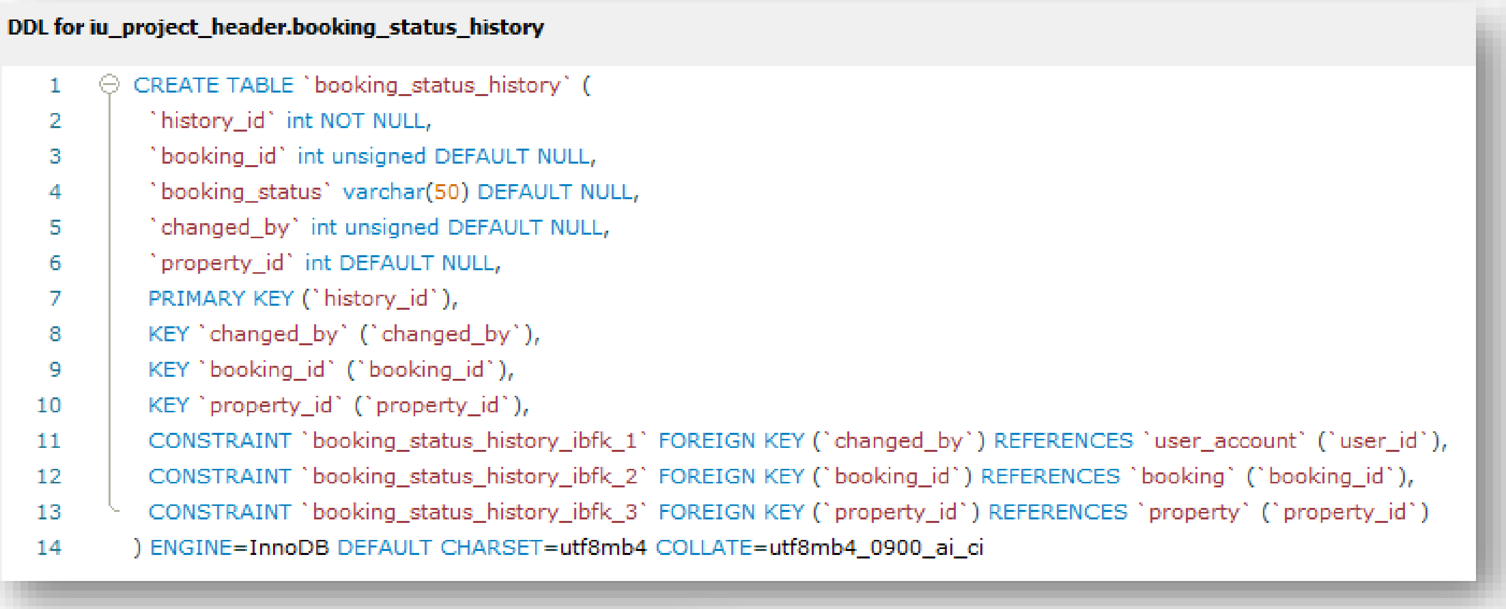


```sql
SELECT * FROM booking;
```

booking_id	user_id	property_id	booking_date	number_of_guests	total_price	status_id
1	1	1	2023-12-01 10:00:00	4	800.00	1
2	2	2	2023-12-02 11:00:00	2	700.00	2
3	3	3	2023-12-03 12:00:00	3	1050.00	1
4	4	4	2023-12-04 13:00:00	5	1200.00	3
5	5	5	2023-12-05 14:00:00	4	1000.00	1
6	6	6	2023-12-06 15:00:00	6	1500.00	2
7	7	7	2023-12-07 16:00:00	3	900.00	3
8	8	8	2023-12-08 17:00:00	2	750.00	1
9	9	9	2023-12-09 18:00:00	4	1100.00	1
10	10	10	2023-12-10 19:00:00	2	800.00	3
11	11	11	2023-12-11 20:00:00	5	1300.00	2
12	12	12	2023-12-12 21:00:00	3	950.00	1
13	13	13	2023-12-13 22:00:00	2	700.00	3
14	14	14	2023-12-14 23:00:00	4	1150.00	1
15	15	15	2023-12-15 08:00:00	3	900.00	2
16	16	16	2023-12-16 09:00:00	2	650.00	3
17	17	17	2023-12-17 10:00:00	5	1250.00	1
18	18	18	2023-12-18 11:00:00	4	1000.00	3
19	19	19	2023-12-19 12:00:00	6	1400.00	2
20	20	20	2023-12-20 13:00:00	3	850.00	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

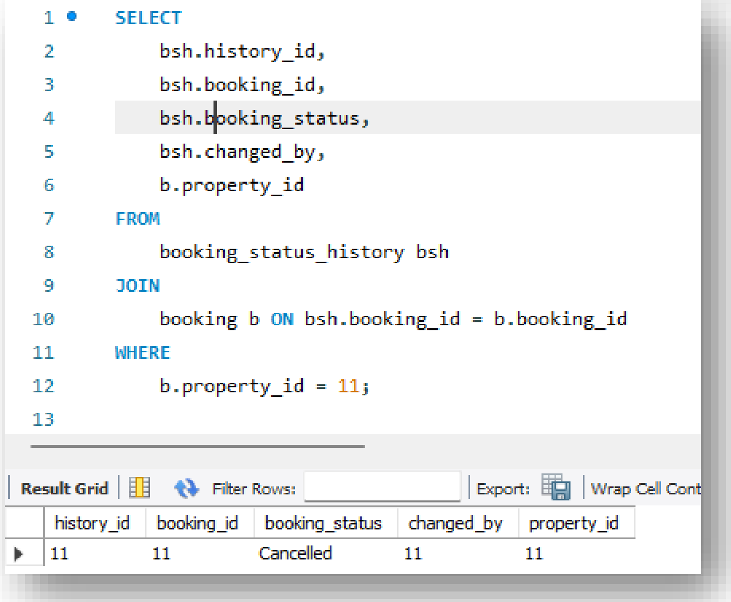
Booking Status History Table

Create table



DDL for iu_project_header.booking_status_history

```
CREATE TABLE `booking_status_history` (
  `history_id` int NOT NULL,
  `booking_id` int unsigned DEFAULT NULL,
  `booking_status` varchar(50) DEFAULT NULL,
  `changed_by` int unsigned DEFAULT NULL,
  `property_id` int DEFAULT NULL,
  PRIMARY KEY (`history_id`),
  KEY `changed_by` (`changed_by`),
  KEY `booking_id` (`booking_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `booking_status_history_ibfk_1` FOREIGN KEY (`changed_by`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `booking_status_history_ibfk_2` FOREIGN KEY (`booking_id`) REFERENCES `booking` (`booking_id`),
  CONSTRAINT `booking_status_history_ibfk_3` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

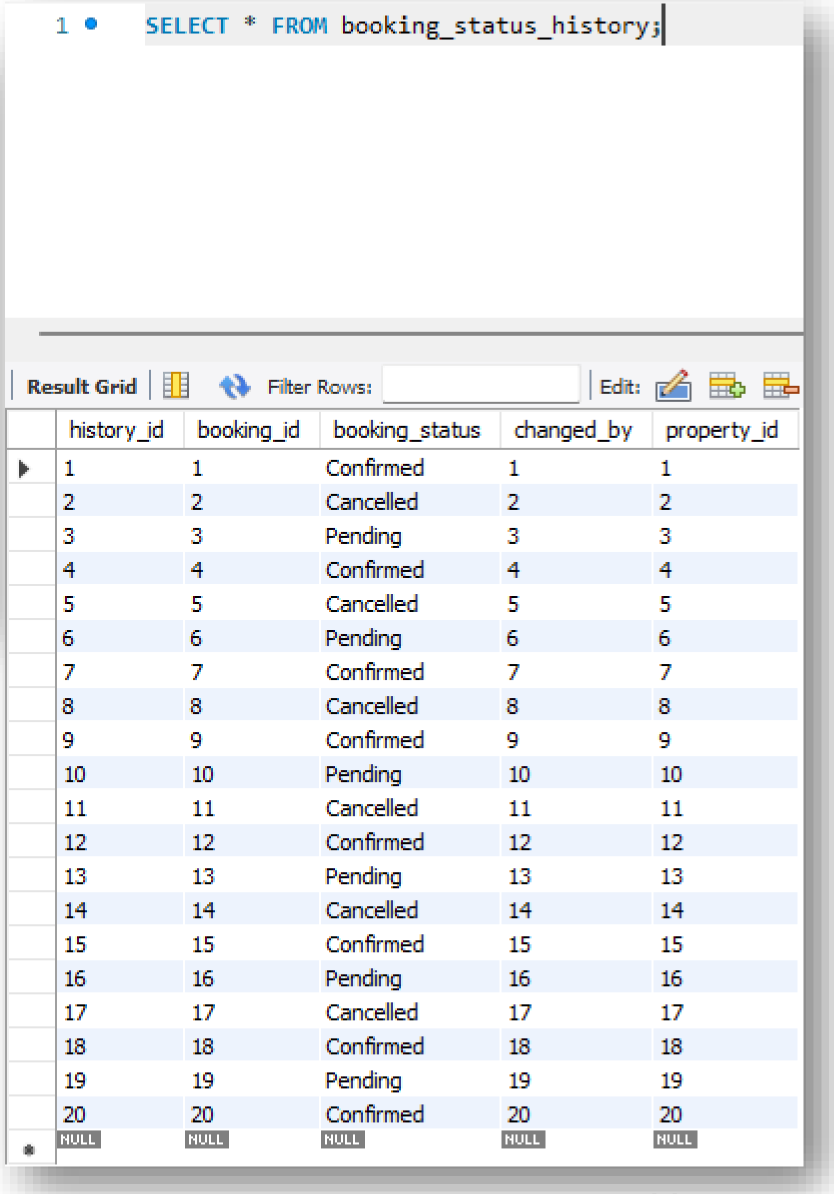


```
SELECT
    bsh.history_id,
    bsh.booking_id,
    bsh.booking_status,
    bsh.changed_by,
    b.property_id
FROM
    booking_status_history bsh
JOIN
    booking b ON bsh.booking_id = b.booking_id
WHERE
    b.property_id = 11;
```

history_id	booking_id	booking_status	changed_by	property_id
11	11	Cancelled	11	11

Here is a query that finds the booking status history of property number 11. Therefore, we can see that the booking number 11 for property number was cancelled by user_id 11.

Query showing data

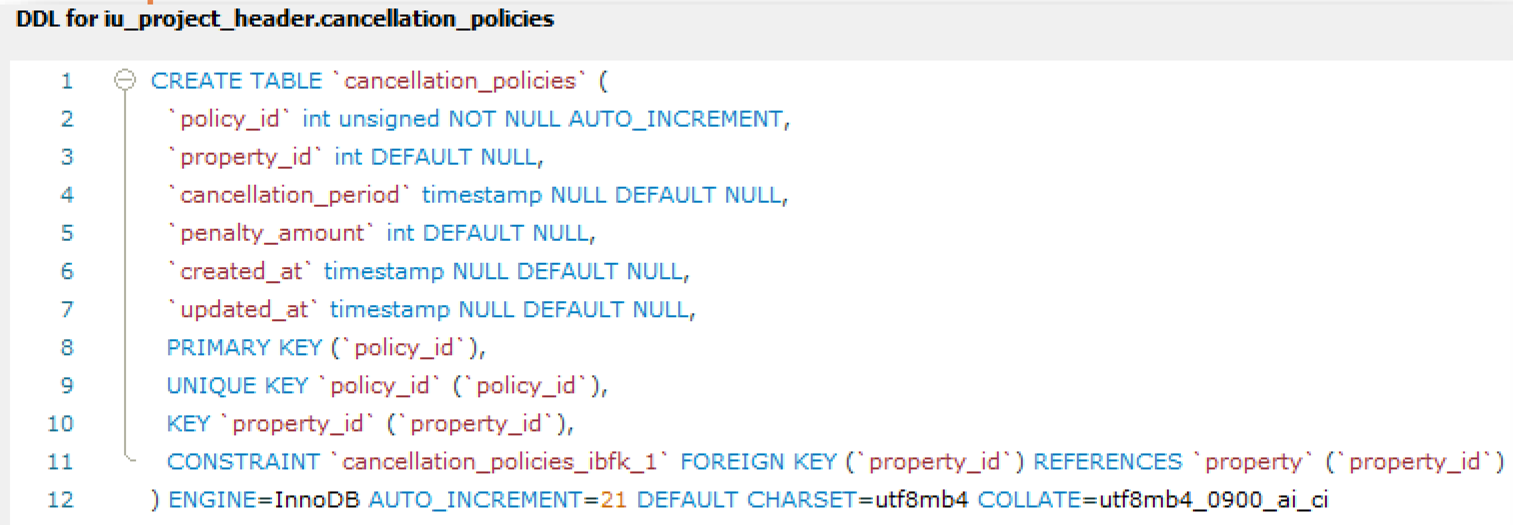


```
SELECT * FROM booking_status_history;
```

history_id	booking_id	booking_status	changed_by	property_id
1	1	Confirmed	1	1
2	2	Cancelled	2	2
3	3	Pending	3	3
4	4	Confirmed	4	4
5	5	Cancelled	5	5
6	6	Pending	6	6
7	7	Confirmed	7	7
8	8	Cancelled	8	8
9	9	Confirmed	9	9
10	10	Pending	10	10
11	11	Cancelled	11	11
12	12	Confirmed	12	12
13	13	Pending	13	13
14	14	Cancelled	14	14
15	15	Confirmed	15	15
16	16	Pending	16	16
17	17	Cancelled	17	17
18	18	Confirmed	18	18
19	19	Pending	19	19
20	20	Confirmed	20	20
NULL	NULL	NULL	NULL	NULL

Cancellation Policies Table

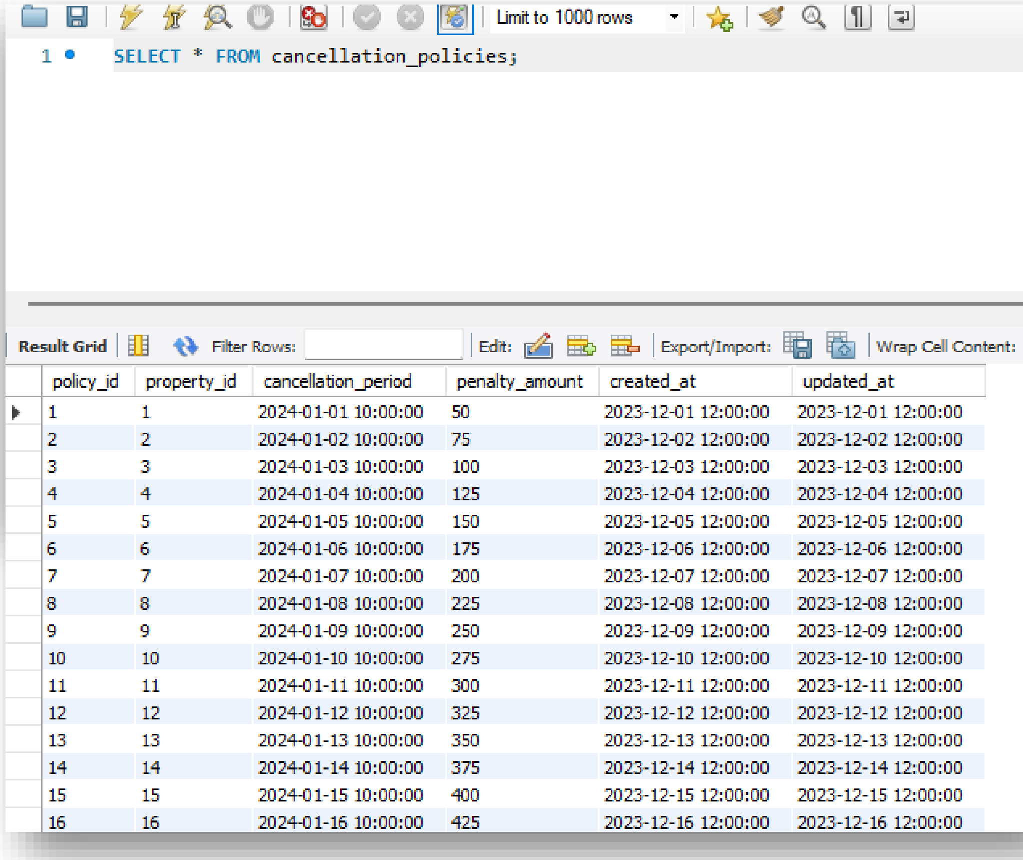
Create table



DDL for iu_project_header.cancellation_policies

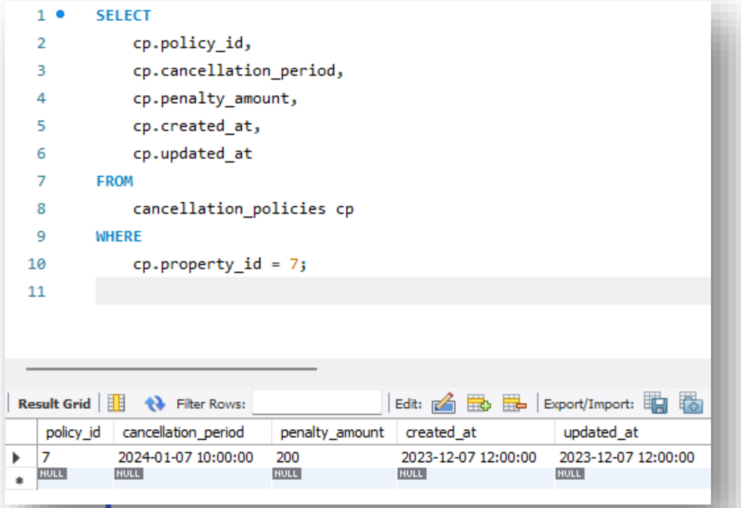
```sql
CREATE TABLE `cancellation_policies` (
  `policy_id` int unsigned NOT NULL AUTO_INCREMENT,
  `property_id` int DEFAULT NULL,
  `cancellation_period` timestamp NULL DEFAULT NULL,
  `penalty_amount` int DEFAULT NULL,
  `created_at` timestamp NULL DEFAULT NULL,
  `updated_at` timestamp NULL DEFAULT NULL,
  PRIMARY KEY (`policy_id`),
  UNIQUE KEY `policy_id` (`policy_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `cancellation_policies_ibfk_1` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data



```sql
SELECT * FROM cancellation_policies;
```

policy_id	property_id	cancellation_period	penalty_amount	created_at	updated_at
1	1	2024-01-01 10:00:00	50	2023-12-01 12:00:00	2023-12-01 12:00:00
2	2	2024-01-02 10:00:00	75	2023-12-02 12:00:00	2023-12-02 12:00:00
3	3	2024-01-03 10:00:00	100	2023-12-03 12:00:00	2023-12-03 12:00:00
4	4	2024-01-04 10:00:00	125	2023-12-04 12:00:00	2023-12-04 12:00:00
5	5	2024-01-05 10:00:00	150	2023-12-05 12:00:00	2023-12-05 12:00:00
6	6	2024-01-06 10:00:00	175	2023-12-06 12:00:00	2023-12-06 12:00:00
7	7	2024-01-07 10:00:00	200	2023-12-07 12:00:00	2023-12-07 12:00:00
8	8	2024-01-08 10:00:00	225	2023-12-08 12:00:00	2023-12-08 12:00:00
9	9	2024-01-09 10:00:00	250	2023-12-09 12:00:00	2023-12-09 12:00:00
10	10	2024-01-10 10:00:00	275	2023-12-10 12:00:00	2023-12-10 12:00:00
11	11	2024-01-11 10:00:00	300	2023-12-11 12:00:00	2023-12-11 12:00:00
12	12	2024-01-12 10:00:00	325	2023-12-12 12:00:00	2023-12-12 12:00:00
13	13	2024-01-13 10:00:00	350	2023-12-13 12:00:00	2023-12-13 12:00:00
14	14	2024-01-14 10:00:00	375	2023-12-14 12:00:00	2023-12-14 12:00:00
15	15	2024-01-15 10:00:00	400	2023-12-15 12:00:00	2023-12-15 12:00:00
16	16	2024-01-16 10:00:00	425	2023-12-16 12:00:00	2023-12-16 12:00:00



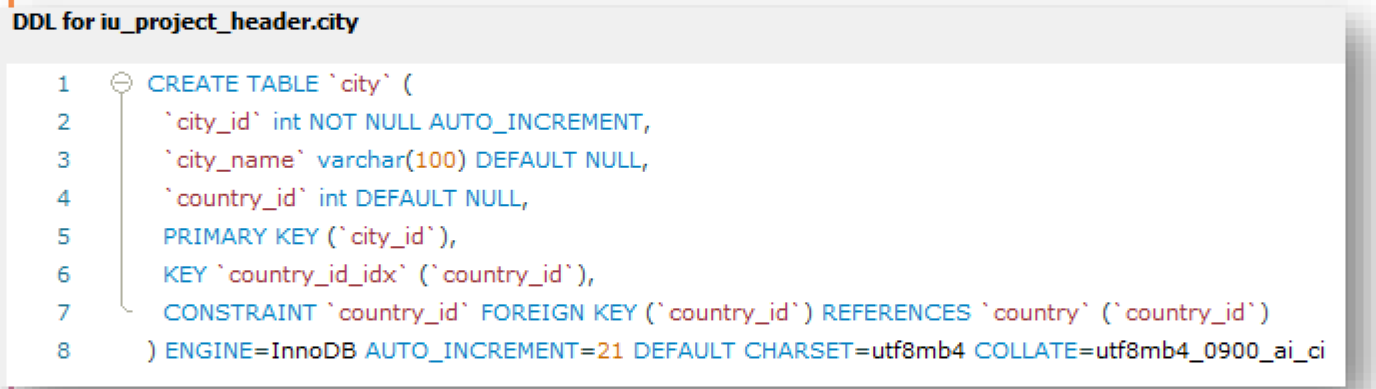
```sql
SELECT
    cp.policy_id,
    cp.cancellation_period,
    cp.penalty_amount,
    cp.created_at,
    cp.updated_at
FROM
    cancellation_policies cp
WHERE
    cp.property_id = 7;
```

policy_id	cancellation_period	penalty_amount	created_at	updated_at
7	2024-01-07 10:00:00	200	2023-12-07 12:00:00	2023-12-07 12:00:00
NULL	NULL	NULL	NULL	NULL

Here we can see the cancellation policy of property 7, which was created in year 2023 for year 2024 with a possible penalty of 200

City Table

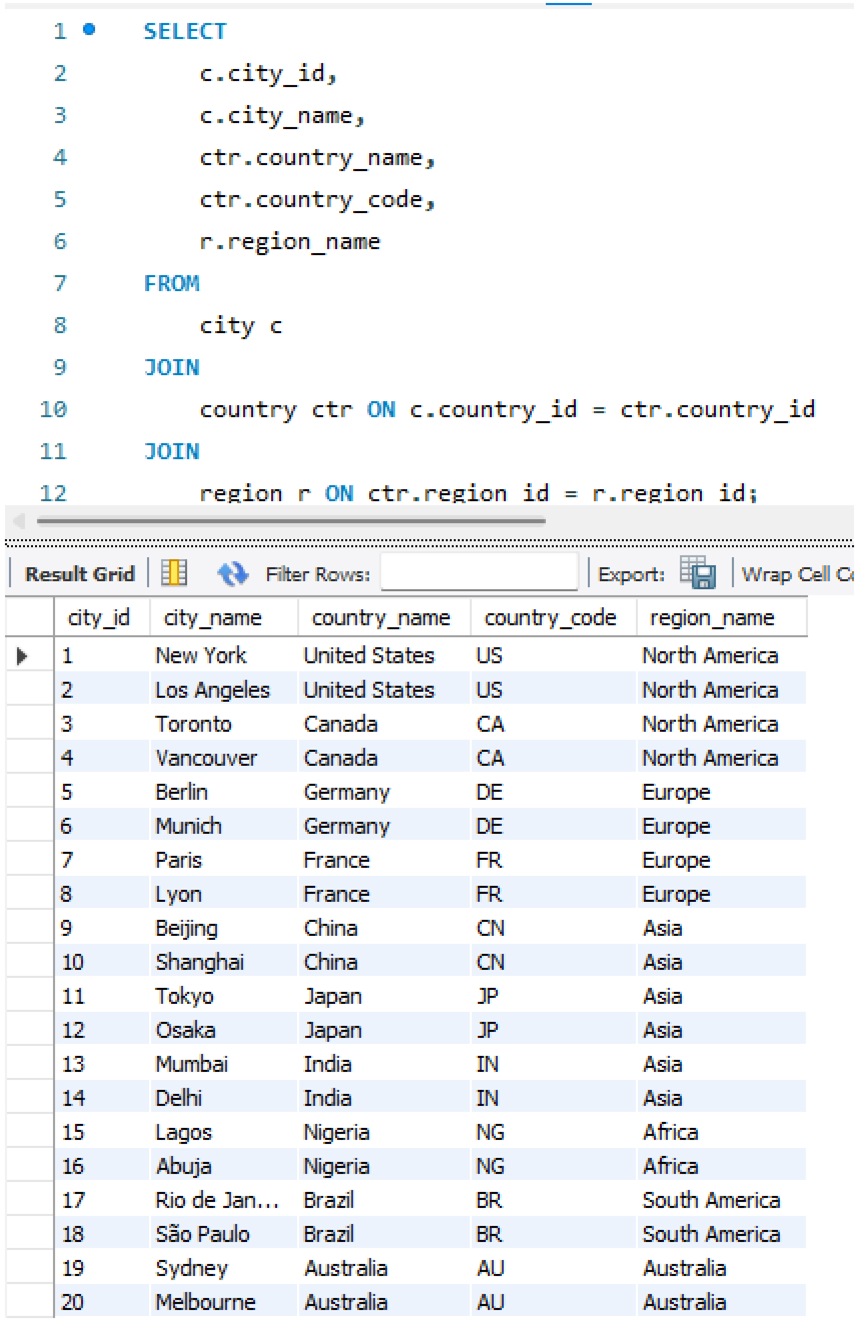
Create table



DDL for iu_project_header.city

```sql
CREATE TABLE `city` (
  `city_id` int NOT NULL AUTO_INCREMENT,
  `city_name` varchar(100) DEFAULT NULL,
  `country_id` int DEFAULT NULL,
  PRIMARY KEY (`city_id`),
  KEY `country_id_idx` (`country_id`),
  CONSTRAINT `country_id` FOREIGN KEY (`country_id`) REFERENCES `country` (`country_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data with cities, countries and regions

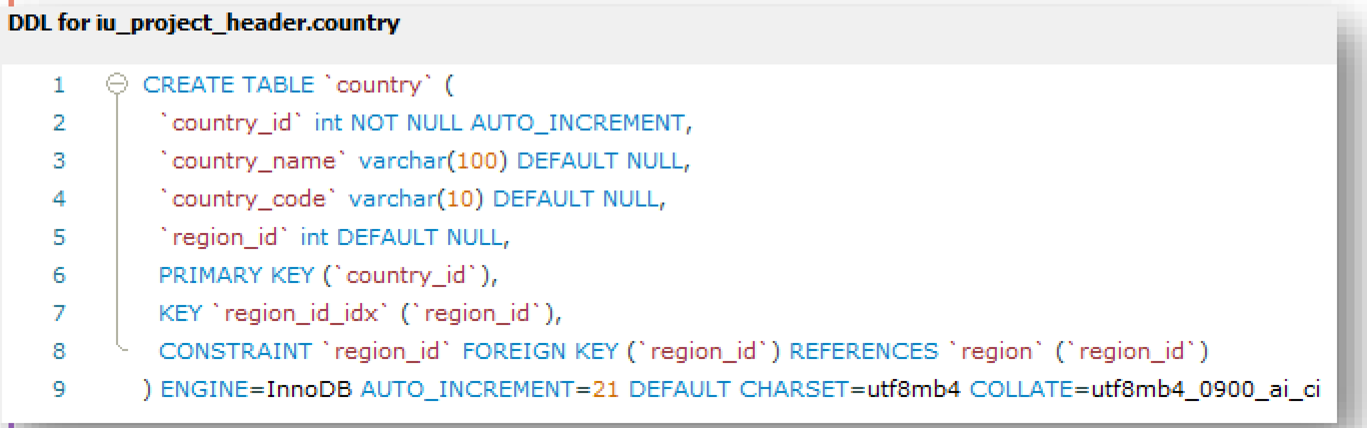


```sql
SELECT
    c.city_id,
    c.city_name,
    ctr.country_name,
    ctr.country_code,
    r.region_name
FROM
    city c
JOIN
    country ctr ON c.country_id = ctr.country_id
JOIN
    region r ON ctr.region_id = r.region_id;
```

city_id	city_name	country_name	country_code	region_name
1	New York	United States	US	North America
2	Los Angeles	United States	US	North America
3	Toronto	Canada	CA	North America
4	Vancouver	Canada	CA	North America
5	Berlin	Germany	DE	Europe
6	Munich	Germany	DE	Europe
7	Paris	France	FR	Europe
8	Lyon	France	FR	Europe
9	Beijing	China	CN	Asia
10	Shanghai	China	CN	Asia
11	Tokyo	Japan	JP	Asia
12	Osaka	Japan	JP	Asia
13	Mumbai	India	IN	Asia
14	Delhi	India	IN	Asia
15	Lagos	Nigeria	NG	Africa
16	Abuja	Nigeria	NG	Africa
17	Rio de Jan...	Brazil	BR	South America
18	São Paulo	Brazil	BR	South America
19	Sydney	Australia	AU	Australia
20	Melbourne	Australia	AU	Australia

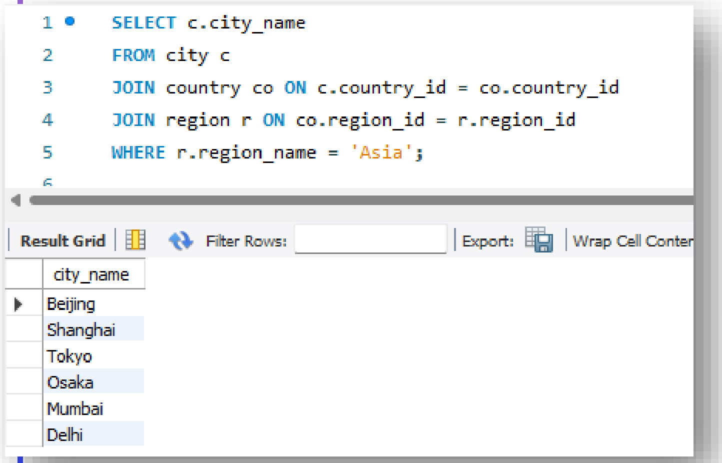
Country Table

Create table



DDL for iu_project_header.country

```
CREATE TABLE `country` (
  `country_id` int NOT NULL AUTO_INCREMENT,
  `country_name` varchar(100) DEFAULT NULL,
  `country_code` varchar(10) DEFAULT NULL,
  `region_id` int DEFAULT NULL,
  PRIMARY KEY (`country_id`),
  KEY `region_id_idx` (`region_id`),
  CONSTRAINT `region_id` FOREIGN KEY (`region_id`) REFERENCES `region` (`region_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

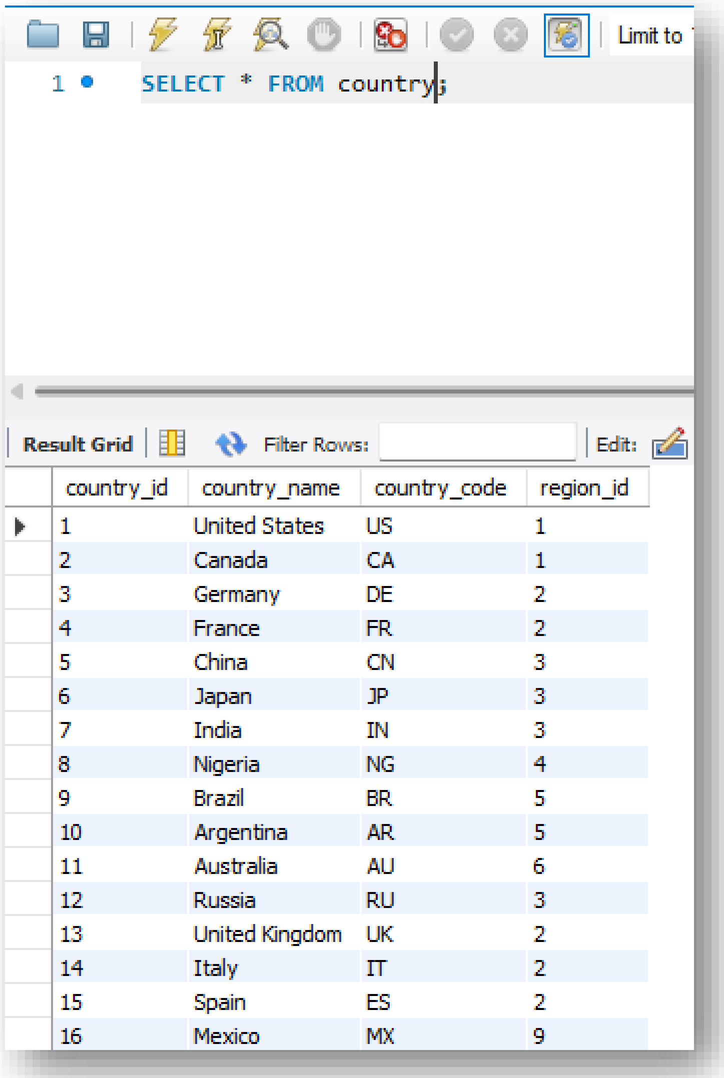


```
SELECT c.city_name
FROM city c
JOIN country co ON c.country_id = co.country_id
JOIN region r ON co.region_id = r.region_id
WHERE r.region_name = 'Asia';
```

city_name
Beijing
Shanghai
Tokyo
Osaka
Mumbai
Delhi

A query that shows all cities that exist in the table that are in Asia region

Query showing data

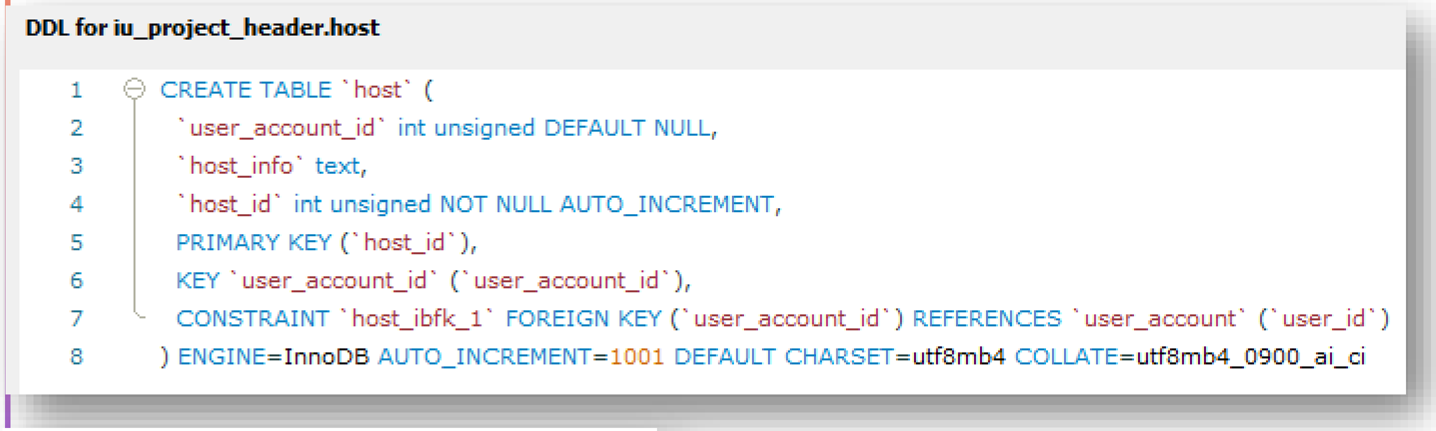


```
SELECT * FROM country;
```

country_id	country_name	country_code	region_id
1	United States	US	1
2	Canada	CA	1
3	Germany	DE	2
4	France	FR	2
5	China	CN	3
6	Japan	JP	3
7	India	IN	3
8	Nigeria	NG	4
9	Brazil	BR	5
10	Argentina	AR	5
11	Australia	AU	6
12	Russia	RU	3
13	United Kingdom	UK	2
14	Italy	IT	2
15	Spain	ES	2
16	Mexico	MX	9

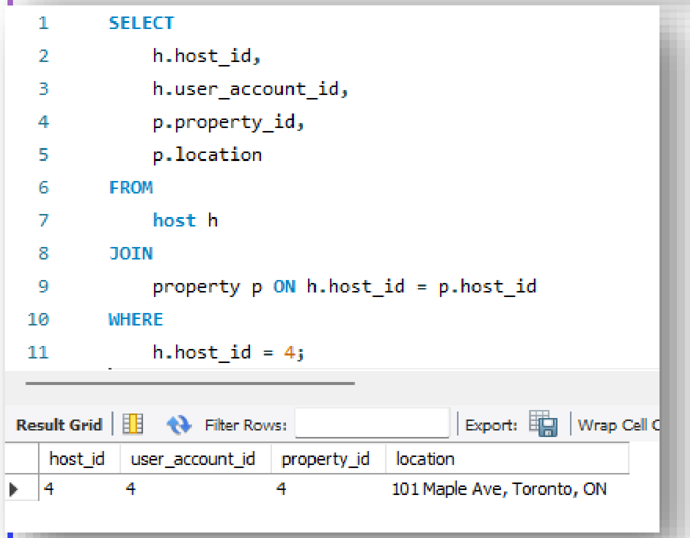
Host Table

Create table



DDL for iu_project_header.host

```
CREATE TABLE `host` (
  `user_account_id` int unsigned DEFAULT NULL,
  `host_info` text,
  `host_id` int unsigned NOT NULL AUTO_INCREMENT,
  PRIMARY KEY (`host_id`),
  KEY `user_account_id` (`user_account_id`),
  CONSTRAINT `host_ibfk_1` FOREIGN KEY (`user_account_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB AUTO_INCREMENT=1001 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

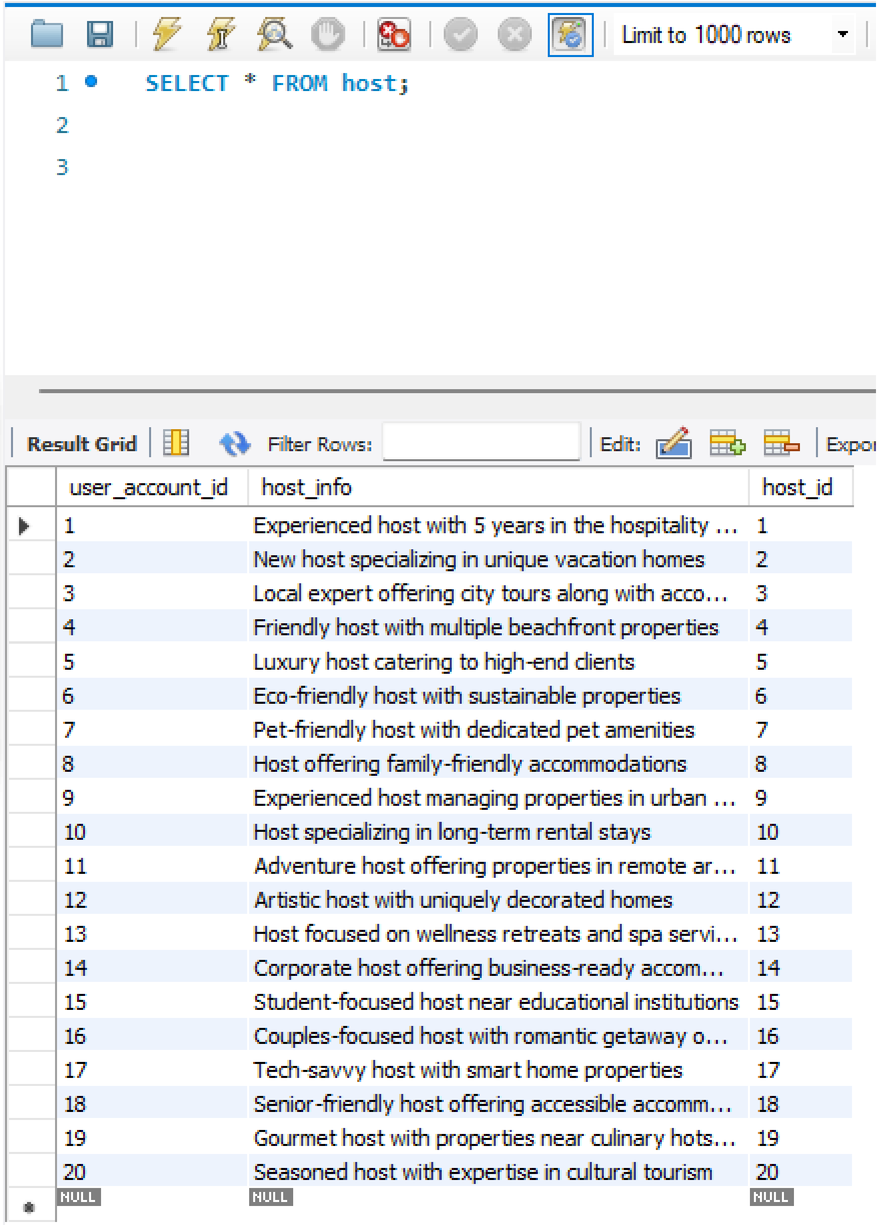


```
SELECT
    h.host_id,
    h.user_account_id,
    p.property_id,
    p.location
FROM
    host h
JOIN
    property p ON h.host_id = p.host_id
WHERE
    h.host_id = 4;
```

host_id	user_account_id	property_id	location
4	4	4	101 Maple Ave, Toronto, ON

The command shows the user id and property id, as well as its location, for host_id

Query showing data

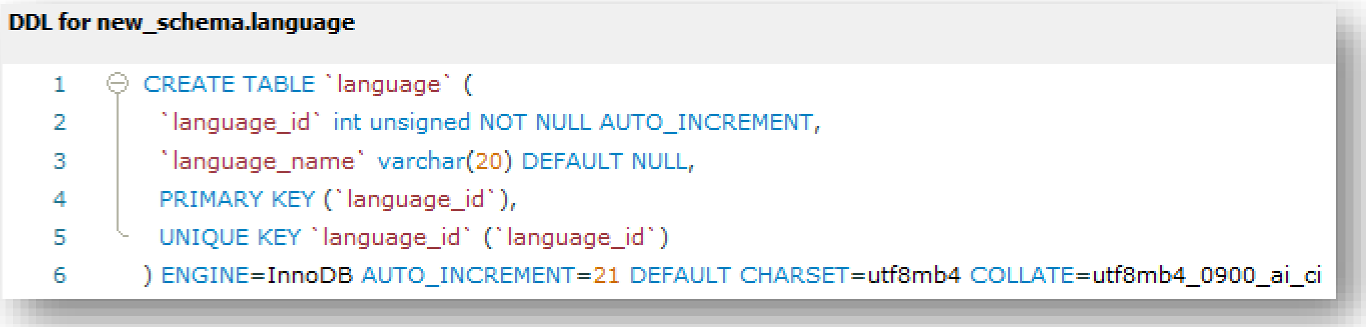


```
SELECT * FROM host;
```

user_account_id	host_info	host_id
1	Experienced host with 5 years in the hospitality ...	1
2	New host specializing in unique vacation homes	2
3	Local expert offering city tours along with acco...	3
4	Friendly host with multiple beachfront properties	4
5	Luxury host catering to high-end clients	5
6	Eco-friendly host with sustainable properties	6
7	Pet-friendly host with dedicated pet amenities	7
8	Host offering family-friendly accommodations	8
9	Experienced host managing properties in urban ...	9
10	Host specializing in long-term rental stays	10
11	Adventure host offering properties in remote ar...	11
12	Artistic host with uniquely decorated homes	12
13	Host focused on wellness retreats and spa servi...	13
14	Corporate host offering business-ready accom...	14
15	Student-focused host near educational institutions	15
16	Couples-focused host with romantic getaway o...	16
17	Tech-savvy host with smart home properties	17
18	Senior-friendly host offering accessible accomm...	18
19	Gourmet host with properties near culinary hots...	19
20	Seasoned host with expertise in cultural tourism	20
NULL	NULL	NULL

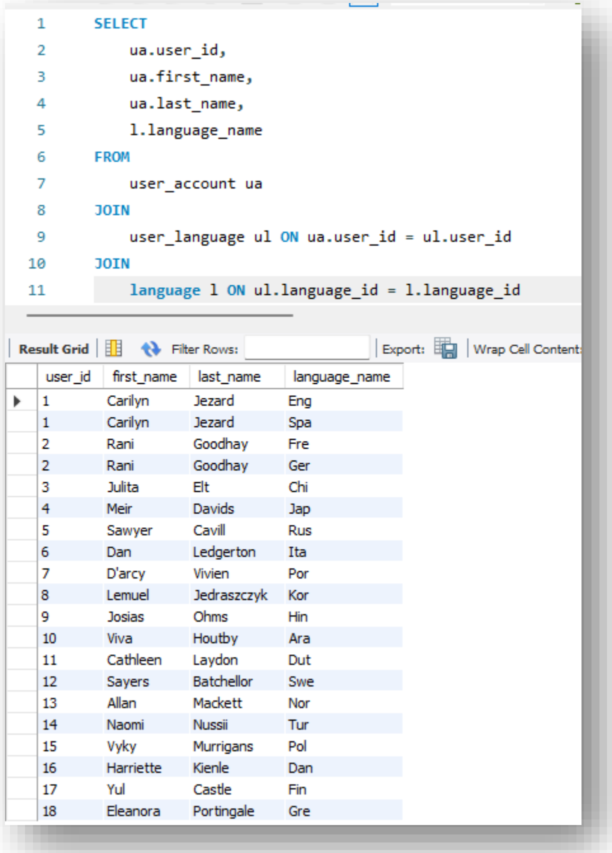
Language Table

Create table



DDL for new_schema.language

```
CREATE TABLE `language` (
  `language_id` int unsigned NOT NULL AUTO_INCREMENT,
  `language_name` varchar(20) DEFAULT NULL,
  PRIMARY KEY (`language_id`),
  UNIQUE KEY `language_id` (`language_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

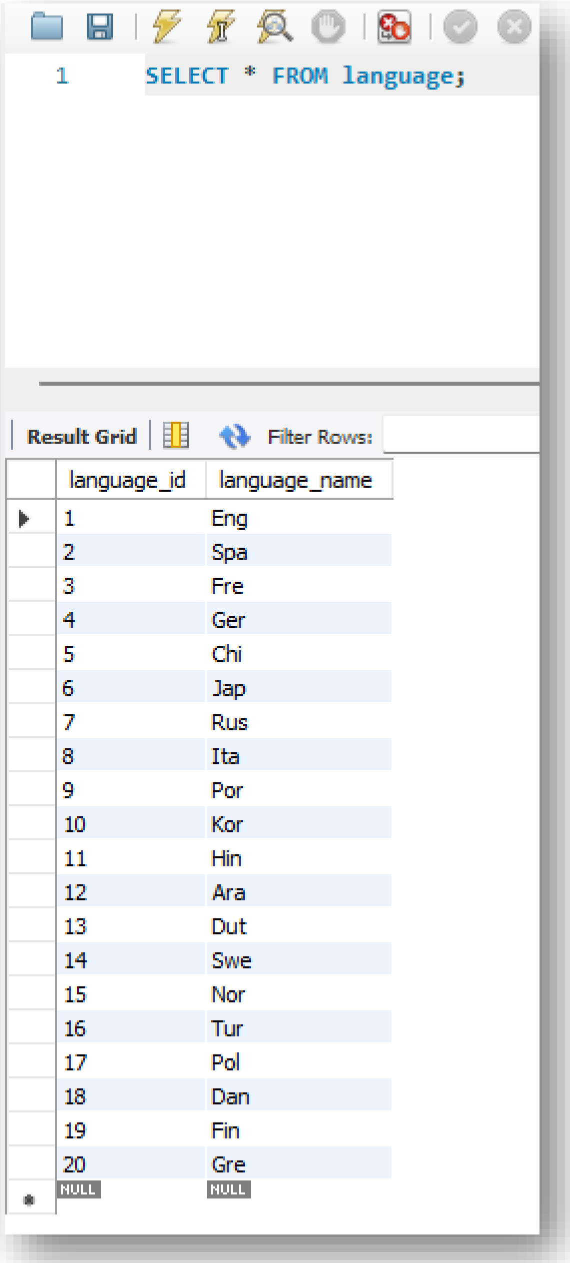


```
SELECT
    ua.user_id,
    ua.first_name,
    ua.last_name,
    l.language_name
FROM
    user_account ua
JOIN
    user_language ul ON ua.user_id = ul.user_id
JOIN
    language l ON ul.language_id = l.language_id
```

user_id	first_name	last_name	language_name
1	Carilyn	Jezard	Eng
1	Carilyn	Jezard	Spa
2	Rani	Goodhay	Fre
2	Rani	Goodhay	Ger
3	Julita	Elt	Chi
4	Meir	Davids	Jap
5	Sawyer	Cavill	Rus
6	Dan	Ledgerton	Ita
7	D'arcy	Vivien	Por
8	Lemuel	Jedraszczyk	Kor
9	Josias	Ohms	Hin
10	Viva	Houtby	Ara
11	Cathleen	Laydon	Dut
12	Sayers	Batchellor	Swe
13	Allan	Mackett	Nor
14	Naomi	Nussii	Tur
15	Vyky	Murrigans	Pol
16	Harriette	Kienle	Dan
17	Yul	Castle	Fin
18	Eleanora	Portingale	Gre

Query that shows all the languages for every user_id from user_account

Query showing data

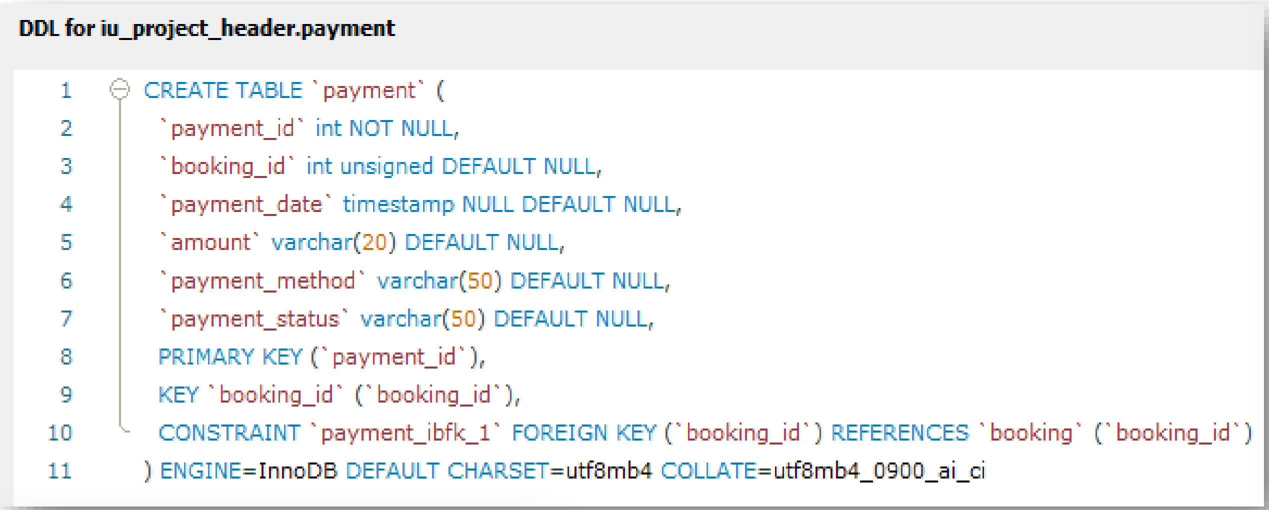


```
SELECT * FROM language;
```

language_id	language_name
1	Eng
2	Spa
3	Fre
4	Ger
5	Chi
6	Jap
7	Rus
8	Ita
9	Por
10	Kor
11	Hin
12	Ara
13	Dut
14	Swe
15	Nor
16	Tur
17	Pol
18	Dan
19	Fin
20	Gre
NULL	NULL

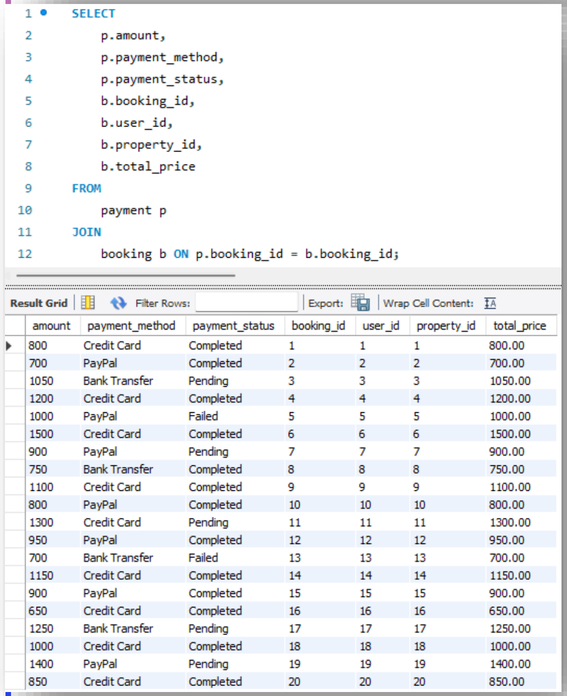
Payment Table

Create table



DDL for iu_project_header.payment

```
CREATE TABLE `payment` (
  `payment_id` int NOT NULL,
  `booking_id` int unsigned DEFAULT NULL,
  `payment_date` timestamp NULL DEFAULT NULL,
  `amount` varchar(20) DEFAULT NULL,
  `payment_method` varchar(50) DEFAULT NULL,
  `payment_status` varchar(50) DEFAULT NULL,
  PRIMARY KEY (`payment_id`),
  KEY `booking_id` (`booking_id`),
  CONSTRAINT `payment_ibfk_1` FOREIGN KEY (`booking_id`) REFERENCES `booking` (`booking_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

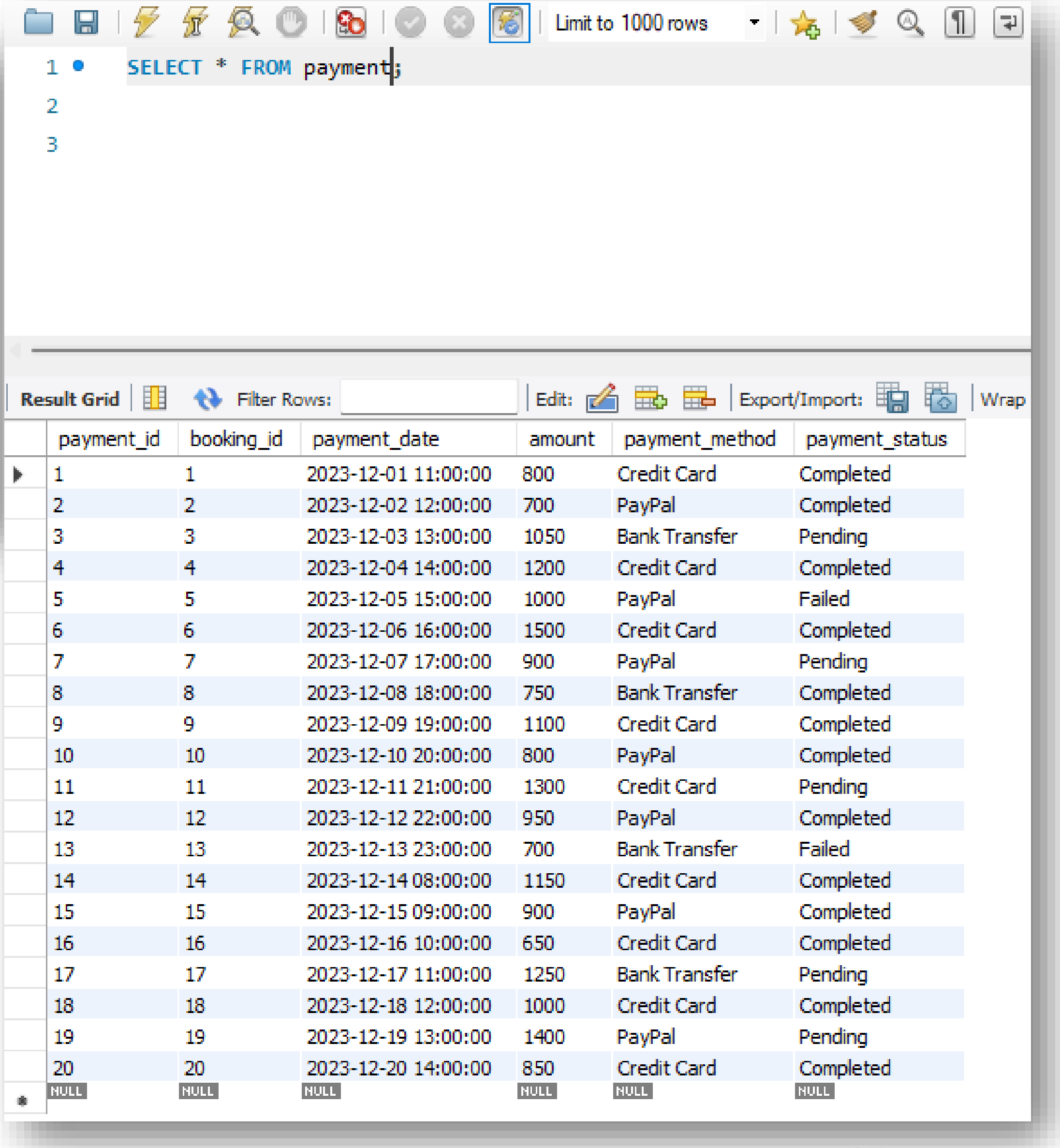


```
SELECT
    p.amount,
    p.payment_method,
    p.payment_status,
    b.booking_id,
    b.user_id,
    b.property_id,
    b.total_price
FROM
    payment p
JOIN
    booking b ON p.booking_id = b.booking_id;
```

amount	payment_method	payment_status	booking_id	user_id	property_id	total_price
800	Credit Card	Completed	1	1	1	800.00
700	PayPal	Completed	2	2	2	700.00
1050	Bank Transfer	Pending	3	3	3	1050.00
1200	Credit Card	Completed	4	4	4	1200.00
1000	PayPal	Failed	5	5	5	1000.00
1500	Credit Card	Completed	6	6	6	1500.00
900	PayPal	Pending	7	7	7	900.00
750	Bank Transfer	Completed	8	8	8	750.00
1100	Credit Card	Completed	9	9	9	1100.00
800	PayPal	Completed	10	10	10	800.00
1300	Credit Card	Pending	11	11	11	1300.00
950	PayPal	Completed	12	12	12	950.00
700	Bank Transfer	Failed	13	13	13	700.00
1150	Credit Card	Completed	14	14	14	1150.00
900	PayPal	Completed	15	15	15	900.00
650	Credit Card	Completed	16	16	16	650.00
1250	Bank Transfer	Pending	17	17	17	1250.00
1000	Credit Card	Completed	18	18	18	1000.00
1400	PayPal	Pending	19	19	19	1400.00
850	Credit Card	Completed	20	20	20	850.00

Query that shows the data from payment and booking tables for each booking.

Query showing data

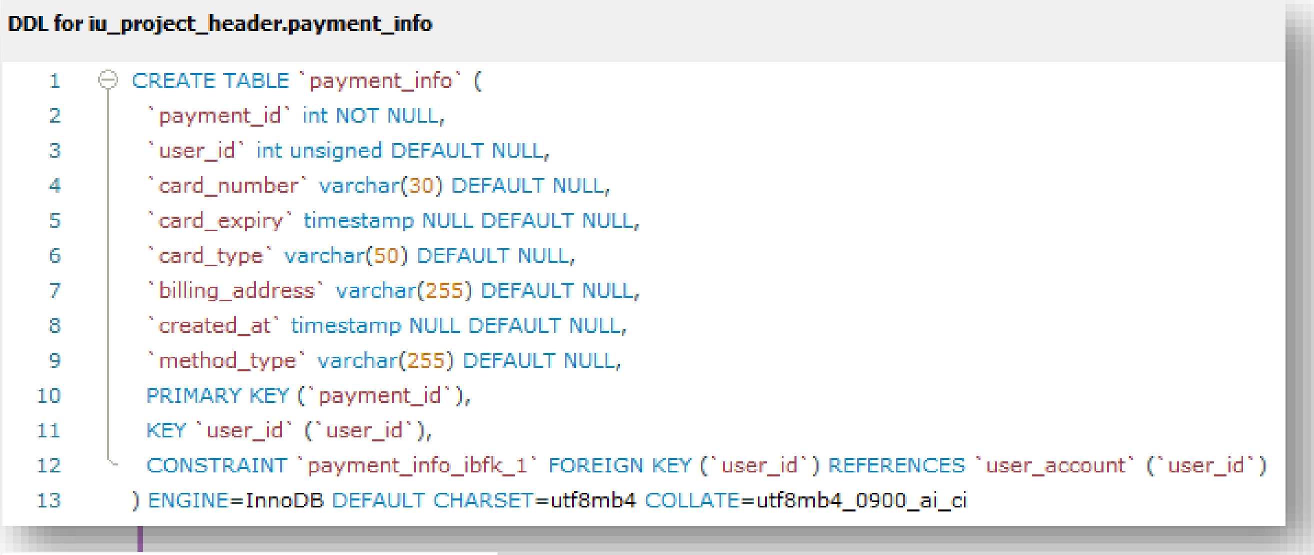


```
SELECT * FROM payment;
```

payment_id	booking_id	payment_date	amount	payment_method	payment_status
1	1	2023-12-01 11:00:00	800	Credit Card	Completed
2	2	2023-12-02 12:00:00	700	PayPal	Completed
3	3	2023-12-03 13:00:00	1050	Bank Transfer	Pending
4	4	2023-12-04 14:00:00	1200	Credit Card	Completed
5	5	2023-12-05 15:00:00	1000	PayPal	Failed
6	6	2023-12-06 16:00:00	1500	Credit Card	Completed
7	7	2023-12-07 17:00:00	900	PayPal	Pending
8	8	2023-12-08 18:00:00	750	Bank Transfer	Completed
9	9	2023-12-09 19:00:00	1100	Credit Card	Completed
10	10	2023-12-10 20:00:00	800	PayPal	Completed
11	11	2023-12-11 21:00:00	1300	Credit Card	Pending
12	12	2023-12-12 22:00:00	950	PayPal	Completed
13	13	2023-12-13 23:00:00	700	Bank Transfer	Failed
14	14	2023-12-14 08:00:00	1150	Credit Card	Completed
15	15	2023-12-15 09:00:00	900	PayPal	Completed
16	16	2023-12-16 10:00:00	650	Credit Card	Completed
17	17	2023-12-17 11:00:00	1250	Bank Transfer	Pending
18	18	2023-12-18 12:00:00	1000	Credit Card	Completed
19	19	2023-12-19 13:00:00	1400	PayPal	Pending
20	20	2023-12-20 14:00:00	850	Credit Card	Completed
NULL	NULL	NULL	NULL	NULL	NULL

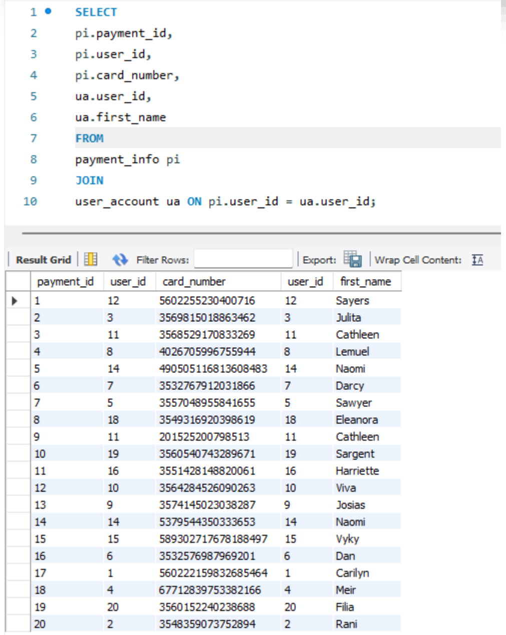
Payment Info Table

Create table



DDL for iu_project_header.payment_info

```
CREATE TABLE `payment_info` (
  `payment_id` int NOT NULL,
  `user_id` int unsigned DEFAULT NULL,
  `card_number` varchar(30) DEFAULT NULL,
  `card_expiry` timestamp NULL DEFAULT NULL,
  `card_type` varchar(50) DEFAULT NULL,
  `billing_address` varchar(255) DEFAULT NULL,
  `created_at` timestamp NULL DEFAULT NULL,
  `method_type` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`payment_id`),
  KEY `user_id` (`user_id`),
  CONSTRAINT `payment_info_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

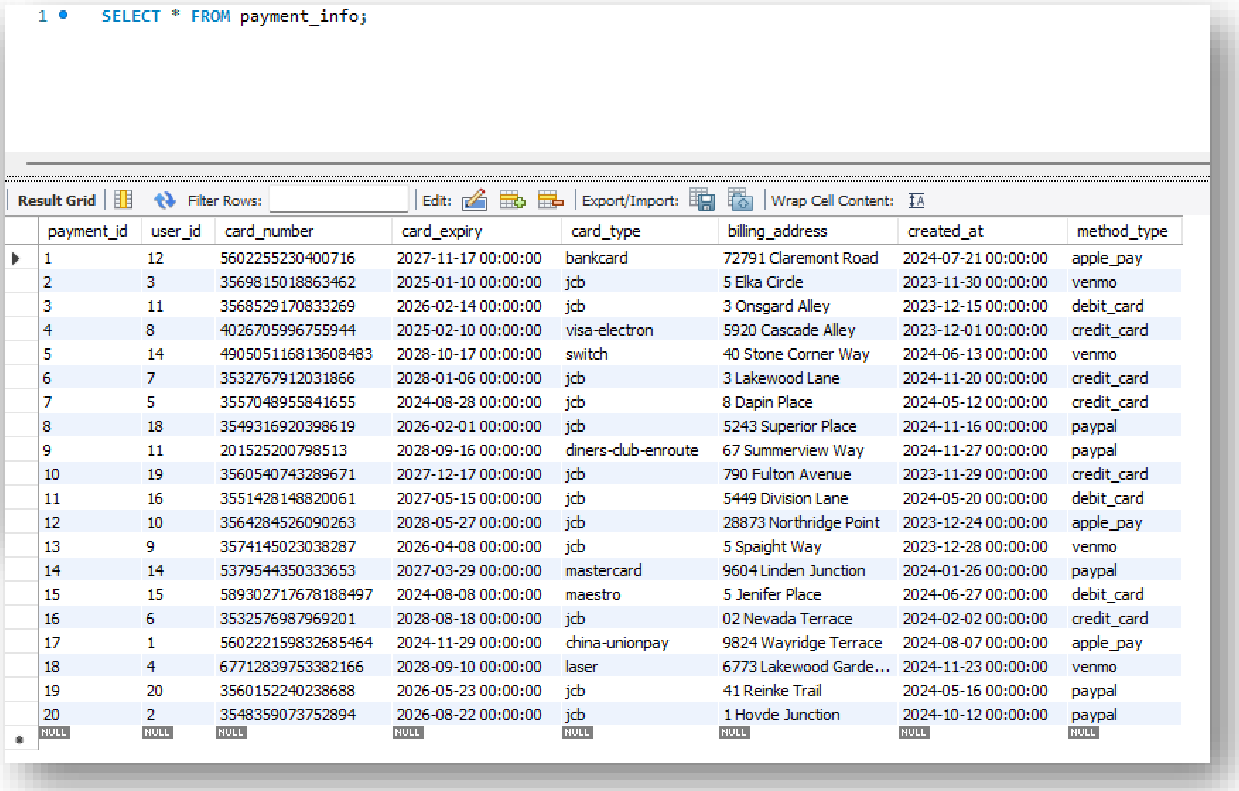


```
SELECT
pi.payment_id,
pi.user_id,
pi.card_number,
ua.user_id,
ua.first_name
FROM
payment_info pi
JOIN
user_account ua ON pi.user_id = ua.user_id;
```

payment_id	user_id	card_number	user_id	first_name
1	12	5602255230400716	12	Sayers
2	3	3569815018863462	3	Julita
3	11	3568529170833269	11	Cathleen
4	8	4026705996755944	8	Lemuel
5	14	490505116813608483	14	Naomi
6	7	3532767912031866	7	Darcy
7	5	3557048955841655	5	Sawyer
8	18	3549316920398619	18	Eleanora
9	11	201525200798513	11	Cathleen
10	19	3560540743289671	19	Sargent
11	16	3551428148820061	16	Harriette
12	10	3564284526090263	10	Viva
13	9	3574145023038287	9	Josias
14	14	5379544350333653	14	Naomi
15	15	589302717678188497	15	Vyky
16	6	3532576987969201	6	Dan
17	1	560222159832685464	1	Carilyn
18	4	67712839753382166	4	Meir
19	20	3560152240238688	20	Filia
20	2	3548359073752894	2	Rani

Query that returns all information from the user_account and payment_info tables about the payments belonging to users

Query showing data

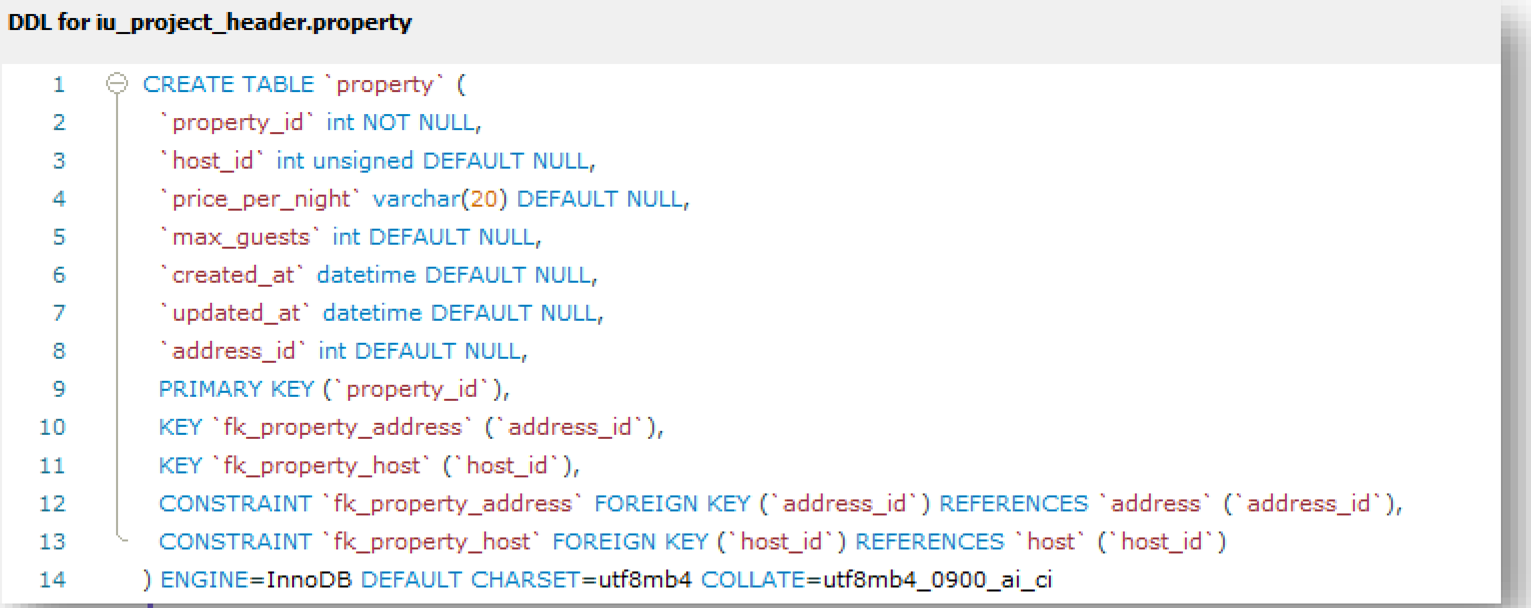


```
SELECT * FROM payment_info;
```

payment_id	user_id	card_number	card_expiry	card_type	billing_address	created_at	method_type
1	12	5602255230400716	2027-11-17 00:00:00	bankcard	72791 Claremont Road	2024-07-21 00:00:00	apple_pay
2	3	3569815018863462	2025-01-10 00:00:00	jcb	5 Elka Circle	2023-11-30 00:00:00	venmo
3	11	3568529170833269	2026-02-14 00:00:00	jcb	3 Onsgard Alley	2023-12-15 00:00:00	debit_card
4	8	4026705996755944	2025-02-10 00:00:00	visa-electron	5920 Cascade Alley	2023-12-01 00:00:00	credit_card
5	14	490505116813608483	2028-10-17 00:00:00	switch	40 Stone Corner Way	2024-06-13 00:00:00	venmo
6	7	3532767912031866	2028-01-06 00:00:00	jcb	3 Lakewood Lane	2024-11-20 00:00:00	credit_card
7	5	3557048955841655	2024-08-28 00:00:00	jcb	8 Dapin Place	2024-05-12 00:00:00	credit_card
8	18	3549316920398619	2026-02-01 00:00:00	jcb	5243 Superior Place	2024-11-16 00:00:00	paypal
9	11	201525200798513	2028-09-16 00:00:00	diners-club-enroute	67 Summerview Way	2024-11-27 00:00:00	paypal
10	19	3560540743289671	2027-12-17 00:00:00	jcb	790 Fulton Avenue	2023-11-29 00:00:00	credit_card
11	16	3551428148820061	2027-05-15 00:00:00	jcb	5449 Division Lane	2024-05-20 00:00:00	debit_card
12	10	3564284526090263	2028-05-27 00:00:00	jcb	28873 Northridge Point	2023-12-24 00:00:00	apple_pay
13	9	3574145023038287	2026-04-08 00:00:00	jcb	5 Spaight Way	2023-12-28 00:00:00	venmo
14	14	5379544350333653	2027-03-29 00:00:00	mastercard	9604 Linden Junction	2024-01-26 00:00:00	paypal
15	15	589302717678188497	2024-08-08 00:00:00	maestro	5 Jenifer Place	2024-06-27 00:00:00	debit_card
16	6	3532576987969201	2028-08-18 00:00:00	jcb	02 Nevada Terrace	2024-02-02 00:00:00	credit_card
17	1	560222159832685464	2024-11-29 00:00:00	china-unionpay	9824 Wayridge Terrace	2024-08-07 00:00:00	apple_pay
18	4	67712839753382166	2028-09-10 00:00:00	laser	6773 Lakewood Garde...	2024-11-23 00:00:00	venmo
19	20	3560152240238688	2026-05-23 00:00:00	jcb	41 Reinke Trail	2024-05-16 00:00:00	paypal
20	2	3548359073752894	2026-08-22 00:00:00	jcb	1 Hovde Junction	2024-10-12 00:00:00	paypal
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Property Table

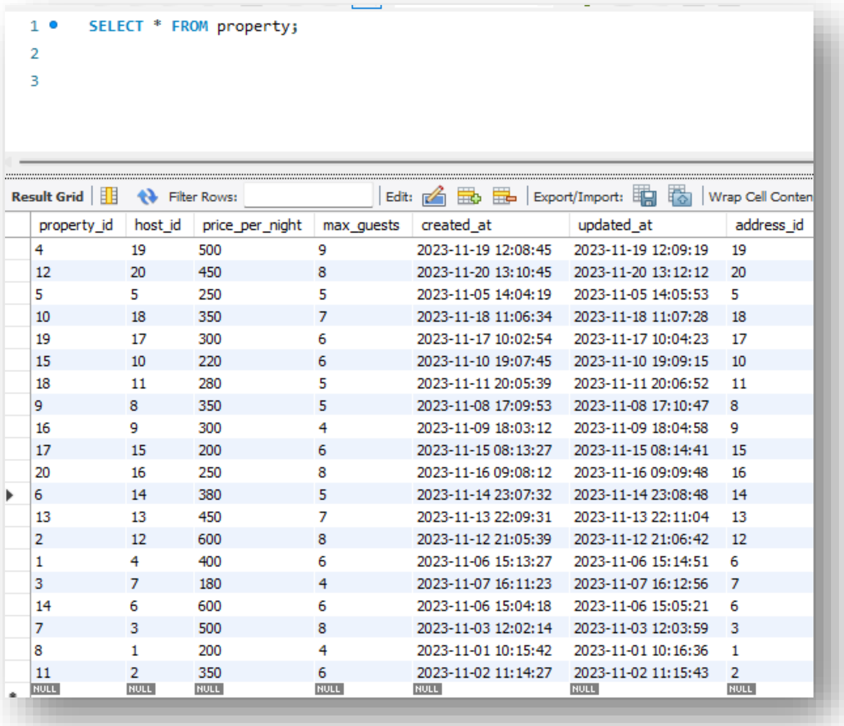
Create table



DDL for iu_project_header.property

```sql
CREATE TABLE `property` (
  `property_id` int NOT NULL,
  `host_id` int unsigned DEFAULT NULL,
  `price_per_night` varchar(20) DEFAULT NULL,
  `max_guests` int DEFAULT NULL,
  `created_at` datetime DEFAULT NULL,
  `updated_at` datetime DEFAULT NULL,
  `address_id` int DEFAULT NULL,
  PRIMARY KEY (`property_id`),
  KEY `fk_property_address` (`address_id`),
  KEY `fk_property_host` (`host_id`),
  CONSTRAINT `fk_property_address` FOREIGN KEY (`address_id`) REFERENCES `address` (`address_id`),
  CONSTRAINT `fk_property_host` FOREIGN KEY (`host_id`) REFERENCES `host` (`host_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing all property data



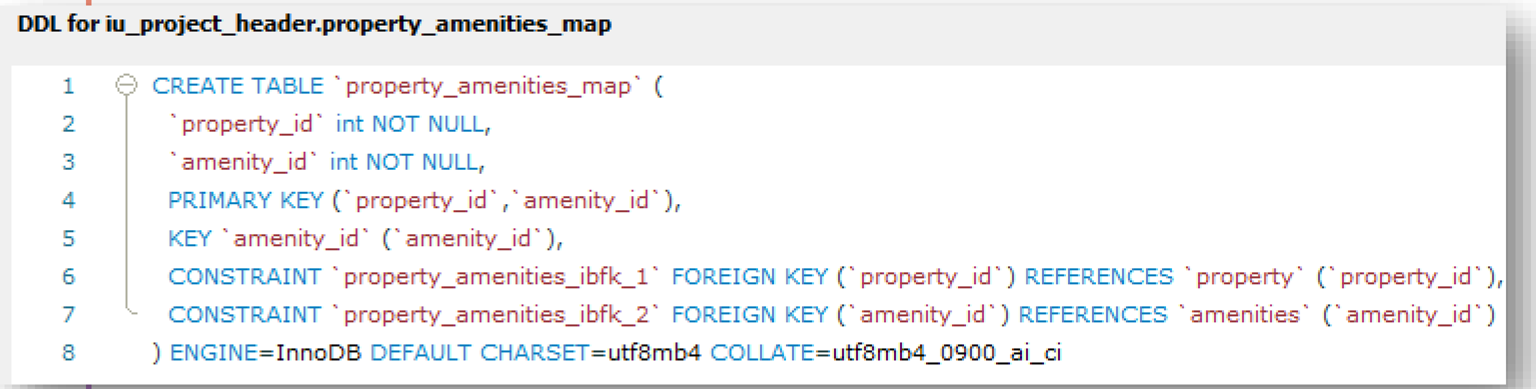
```sql
SELECT * FROM property;
```

property_id	host_id	price_per_night	max_guests	created_at	updated_at	address_id
4	19	500	9	2023-11-19 12:08:45	2023-11-19 12:09:19	19
12	20	450	8	2023-11-20 13:10:45	2023-11-20 13:12:12	20
5	5	250	5	2023-11-05 14:04:19	2023-11-05 14:05:53	5
10	18	350	7	2023-11-18 11:06:34	2023-11-18 11:07:28	18
19	17	300	6	2023-11-17 10:02:54	2023-11-17 10:04:23	17
15	10	220	6	2023-11-10 19:07:45	2023-11-10 19:09:15	10
18	11	280	5	2023-11-11 20:05:39	2023-11-11 20:06:52	11
9	8	350	5	2023-11-08 17:09:53	2023-11-08 17:10:47	8
16	9	300	4	2023-11-09 18:03:12	2023-11-09 18:04:58	9
17	15	200	6	2023-11-15 08:13:27	2023-11-15 08:14:41	15
20	16	250	8	2023-11-16 09:08:12	2023-11-16 09:09:48	16
6	14	380	5	2023-11-14 23:07:32	2023-11-14 23:08:48	14
13	13	450	7	2023-11-13 22:09:31	2023-11-13 22:11:04	13
2	12	600	8	2023-11-12 21:05:39	2023-11-12 21:06:42	12
1	4	400	6	2023-11-06 15:13:27	2023-11-06 15:14:51	6
3	7	180	4	2023-11-07 16:11:23	2023-11-07 16:12:56	7
14	6	600	6	2023-11-06 15:04:18	2023-11-06 15:05:21	6
7	3	500	8	2023-11-03 12:02:14	2023-11-03 12:03:59	3
8	1	200	4	2023-11-01 10:15:42	2023-11-01 10:16:36	1
11	2	350	6	2023-11-02 11:14:27	2023-11-02 11:15:43	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Queries showing complex property data with joined statements are in other slides

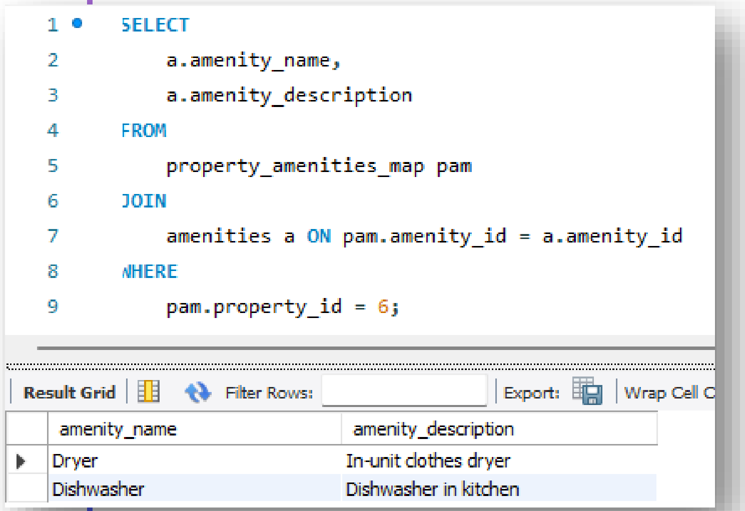
Property Amenities Map Table

Create table



DDL for iu_project_header.property_amenities_map

```
CREATE TABLE `property_amenities_map` (
  `property_id` int NOT NULL,
  `amenity_id` int NOT NULL,
  PRIMARY KEY (`property_id`,`amenity_id`),
  KEY `amenity_id` (`amenity_id`),
  CONSTRAINT `property_amenities_ibfk_1` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`),
  CONSTRAINT `property_amenities_ibfk_2` FOREIGN KEY (`amenity_id`) REFERENCES `amenities` (`amenity_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

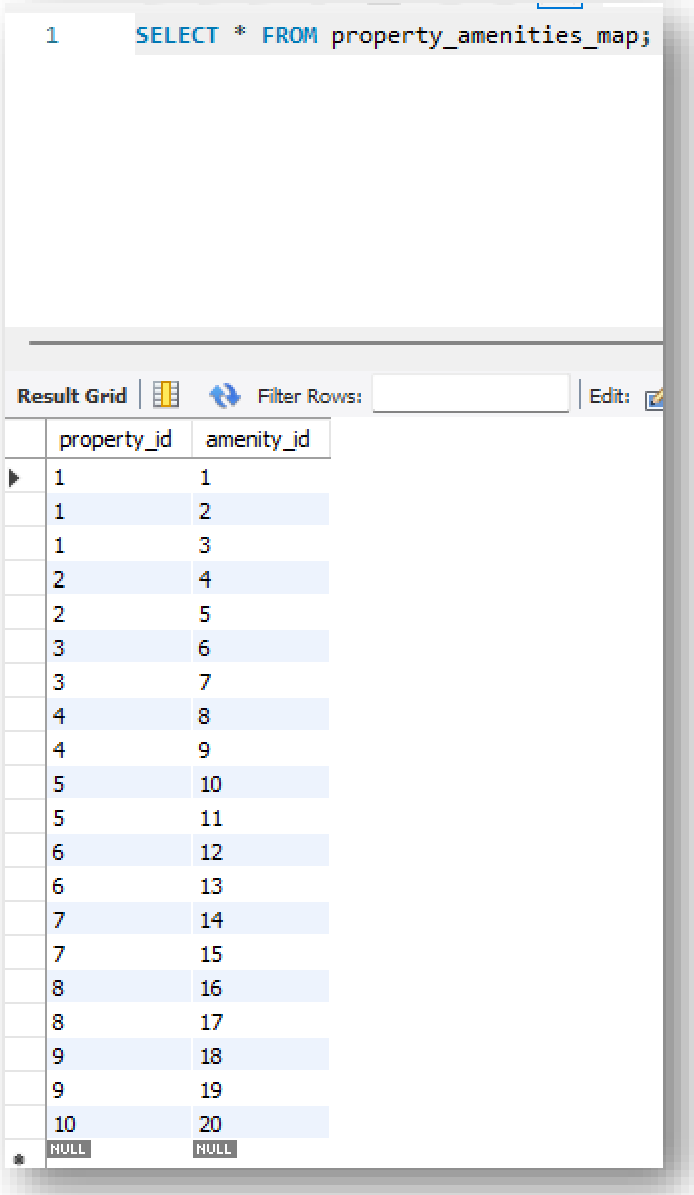


```
SELECT
    a.amenity_name,
    a.amenity_description
FROM
    property_amenities_map pam
JOIN
    amenities a ON pam.amenity_id = a.amenity_id
WHERE
    pam.property_id = 6;
```

amenity_name	amenity_description
Dryer	In-unit clothes dryer
Dishwasher	Dishwasher in kitchen

This query shows the amenities that can be found in property_id 6

Query showing data

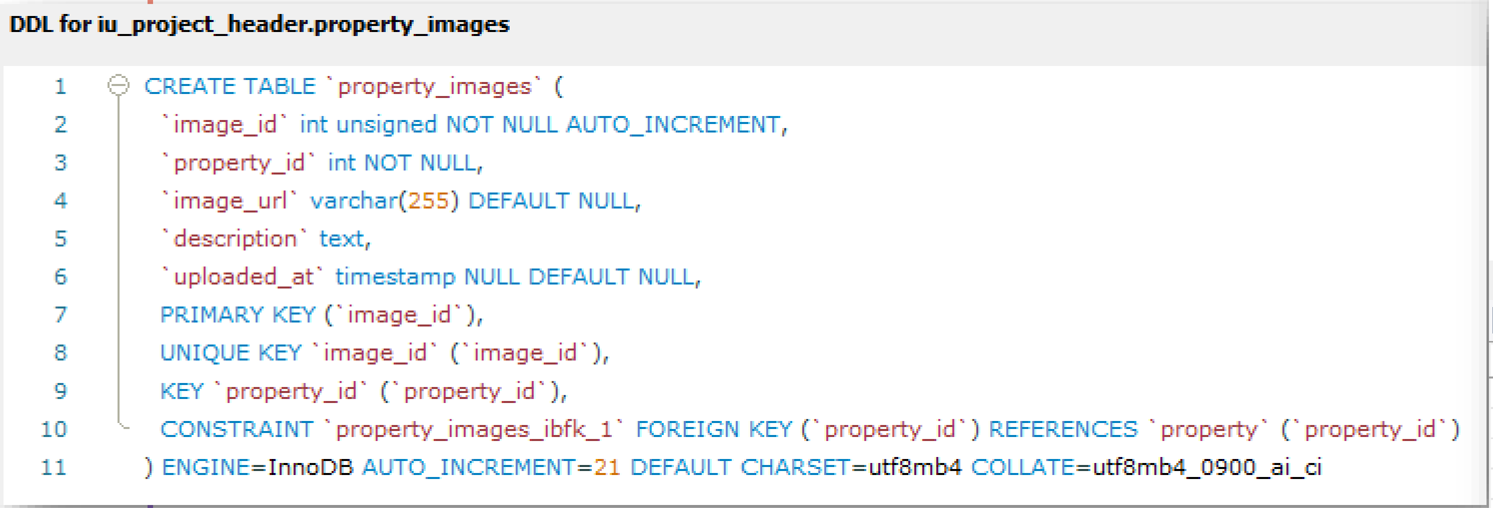


```
SELECT * FROM property_amenities_map;
```

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

Property Images Table

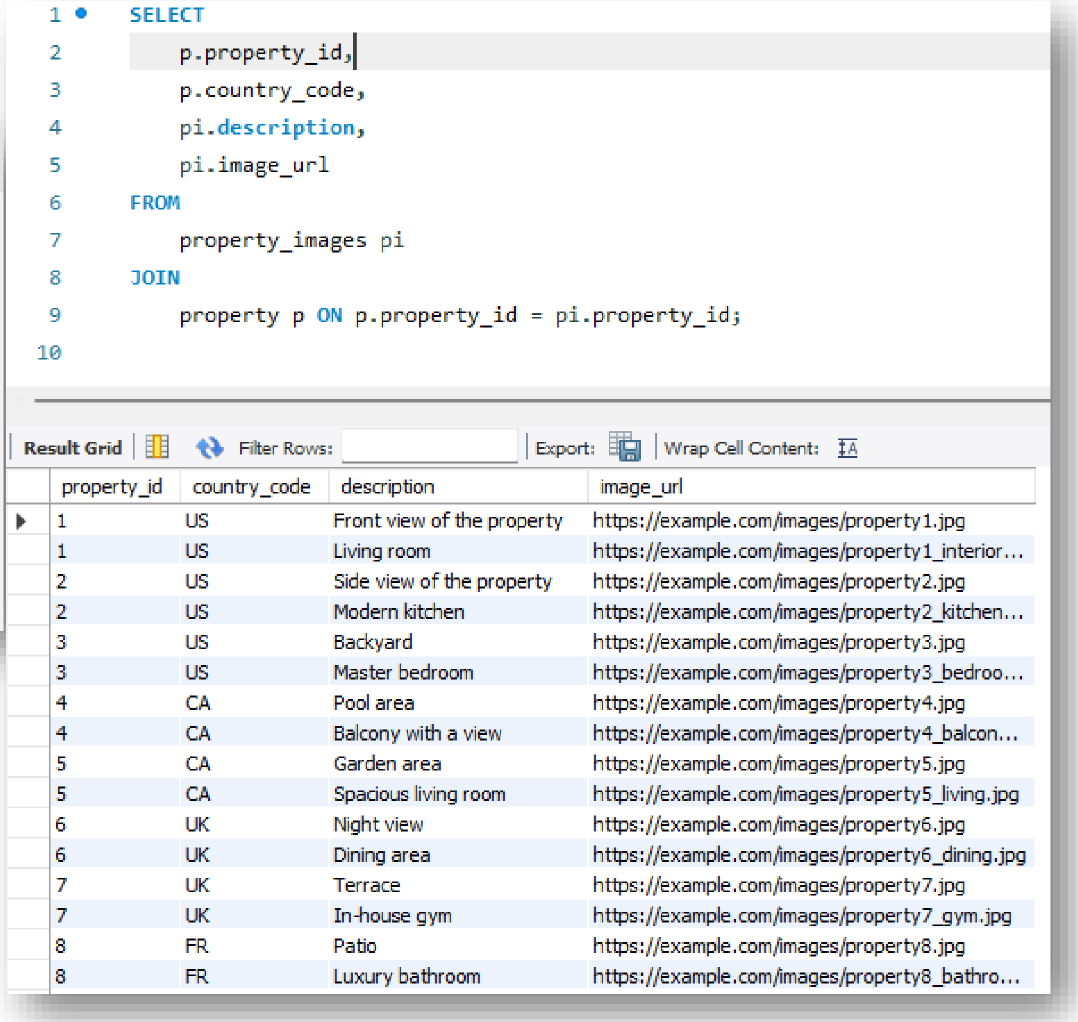
Create table



DDL for iu_project_header.property_images

```sql
CREATE TABLE `property_images` (
  `image_id` int unsigned NOT NULL AUTO_INCREMENT,
  `property_id` int NOT NULL,
  `image_url` varchar(255) DEFAULT NULL,
  `description` text,
  `uploaded_at` timestamp NULL DEFAULT NULL,
  PRIMARY KEY (`image_id`),
  UNIQUE KEY `image_id` (`image_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `property_images_ibfk_1` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data on properties and property_images, showing both together

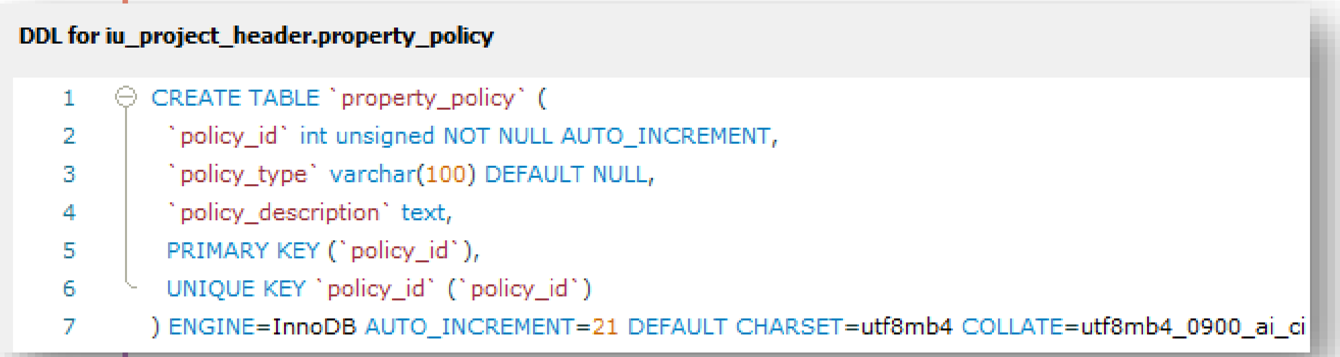


```sql
SELECT
    p.property_id,
    p.country_code,
    pi.description,
    pi.image_url
FROM
    property_images pi
JOIN
    property p ON p.property_id = pi.property_id;
```

property_id	country_code	description	image_url
1	US	Front view of the property	https://example.com/images/property1.jpg
1	US	Living room	https://example.com/images/property1_interior...
2	US	Side view of the property	https://example.com/images/property2.jpg
2	US	Modern kitchen	https://example.com/images/property2_kitchen...
3	US	Backyard	https://example.com/images/property3.jpg
3	US	Master bedroom	https://example.com/images/property3_bedroo...
4	CA	Pool area	https://example.com/images/property4.jpg
4	CA	Balcony with a view	https://example.com/images/property4_balcon...
5	CA	Garden area	https://example.com/images/property5.jpg
5	CA	Spacious living room	https://example.com/images/property5_living.jpg
6	UK	Night view	https://example.com/images/property6.jpg
6	UK	Dining area	https://example.com/images/property6_dining.jpg
7	UK	Terrace	https://example.com/images/property7.jpg
7	UK	In-house gym	https://example.com/images/property7_gym.jpg
8	FR	Patio	https://example.com/images/property8.jpg
8	FR	Luxury bathroom	https://example.com/images/property8_bathro...

Property Policy Table

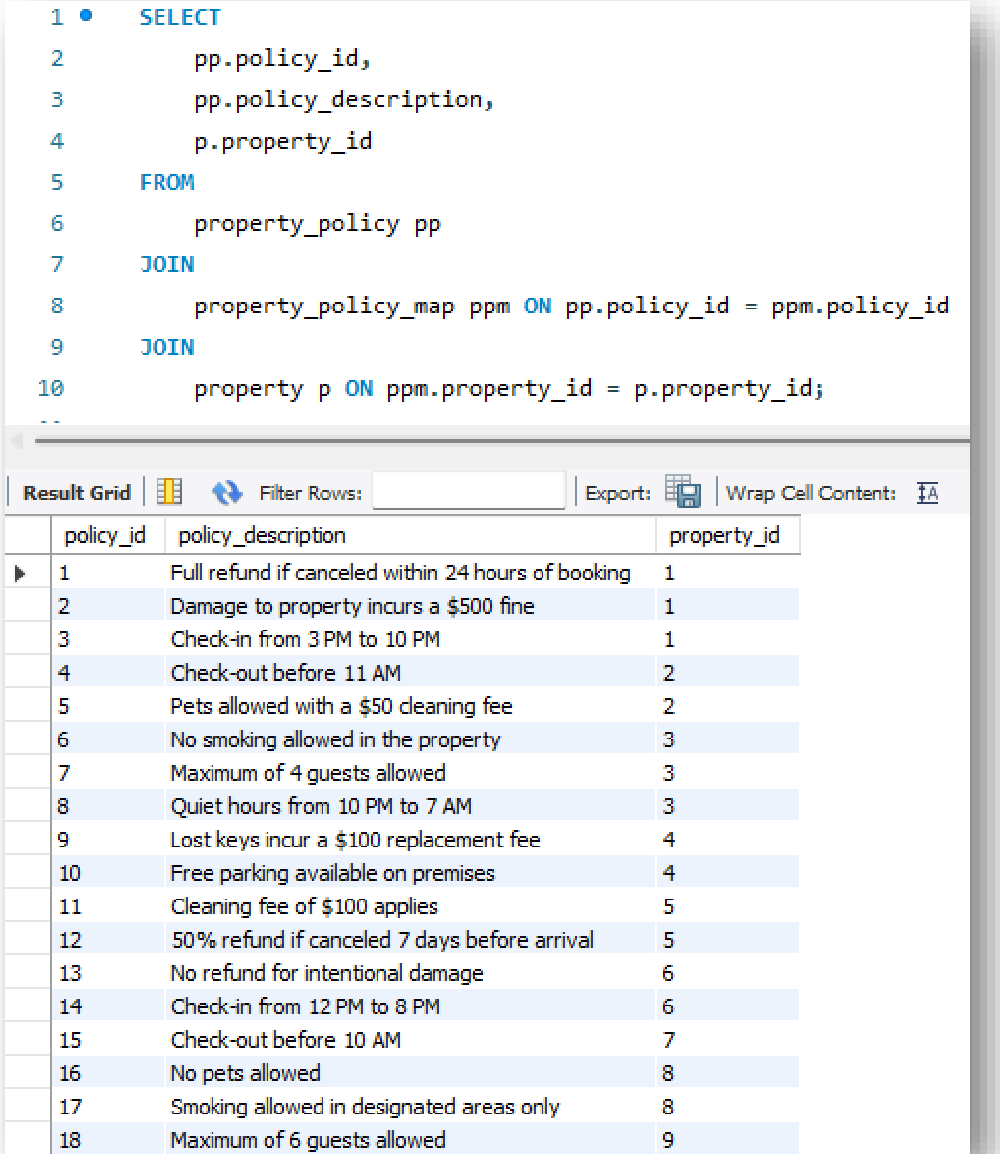
Create table



DDL for iu_project_header.property_policy

```sql
CREATE TABLE `property_policy` (
  `policy_id` int unsigned NOT NULL AUTO_INCREMENT,
  `policy_type` varchar(100) DEFAULT NULL,
  `policy_description` text,
  PRIMARY KEY (`policy_id`),
  UNIQUE KEY `policy_id` (`policy_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data from property and property policy, including descriptions and property_id

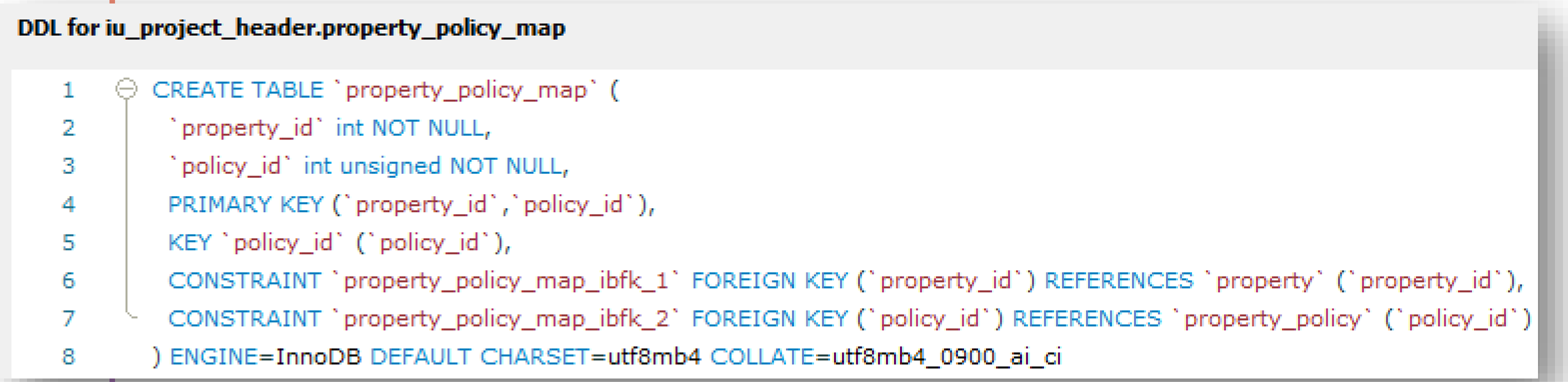


```sql
SELECT
    pp.policy_id,
    pp.policy_description,
    p.property_id
FROM
    property_policy pp
JOIN
    property_policy_map ppm ON pp.policy_id = ppm.policy_id
JOIN
    property p ON ppm.property_id = p.property_id;
```

policy_id	policy_description	property_id
1	Full refund if canceled within 24 hours of booking	1
2	Damage to property incurs a $500 fine	1
3	Check-in from 3 PM to 10 PM	1
4	Check-out before 11 AM	2
5	Pets allowed with a $50 cleaning fee	2
6	No smoking allowed in the property	3
7	Maximum of 4 guests allowed	3
8	Quiet hours from 10 PM to 7 AM	3
9	Lost keys incur a $100 replacement fee	4
10	Free parking available on premises	4
11	Cleaning fee of $100 applies	5
12	50% refund if canceled 7 days before arrival	5
13	No refund for intentional damage	6
14	Check-in from 12 PM to 8 PM	6
15	Check-out before 10 AM	7
16	No pets allowed	8
17	Smoking allowed in designated areas only	8
18	Maximum of 6 guests allowed	9

Property Policy Map Table

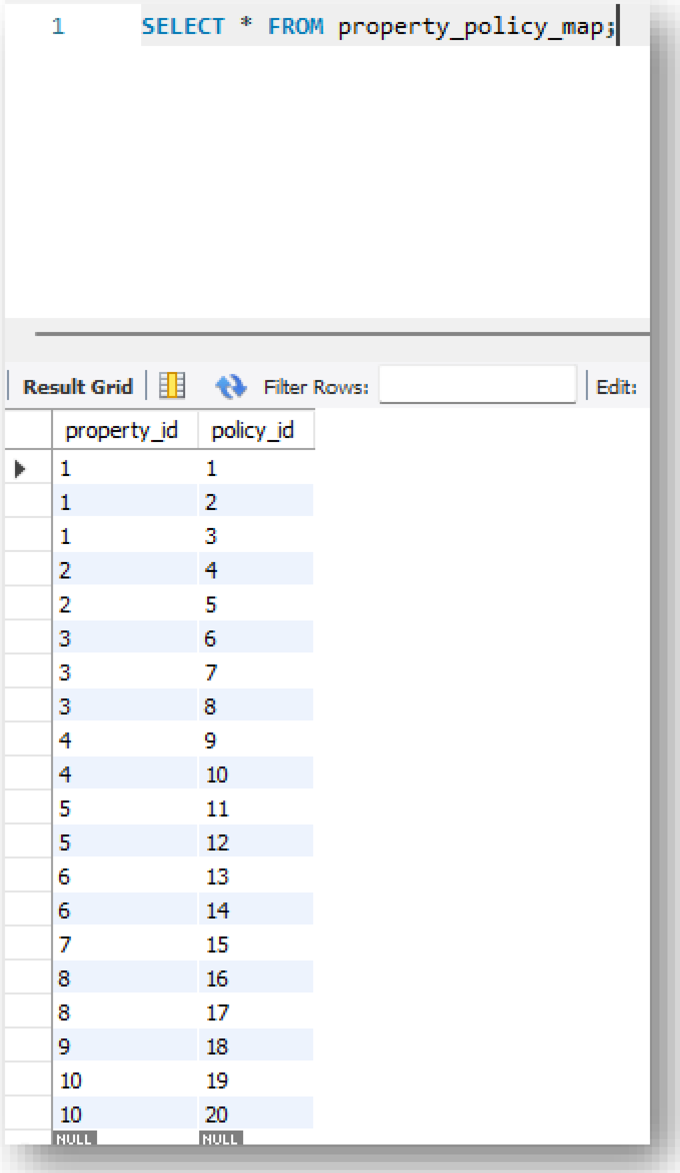
Create table



DDL for iu_project_header.property_policy_map

```
CREATE TABLE `property_policy_map` (
  `property_id` int NOT NULL,
  `policy_id` int unsigned NOT NULL,
  PRIMARY KEY (`property_id`,`policy_id`),
  KEY `policy_id` (`policy_id`),
  CONSTRAINT `property_policy_map_ibfk_1` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`),
  CONSTRAINT `property_policy_map_ibfk_2` FOREIGN KEY (`policy_id`) REFERENCES `property_policy` (`policy_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data



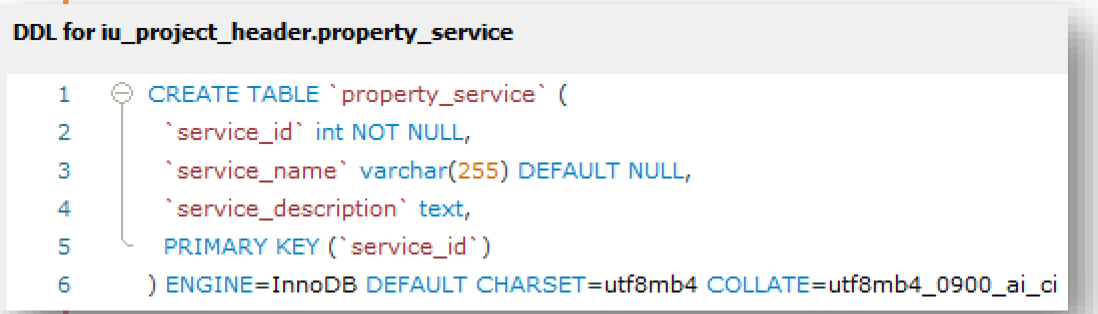
```
SELECT * FROM property_policy_map;
```

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

Specific query can be found in property policy slide

Property Service Table

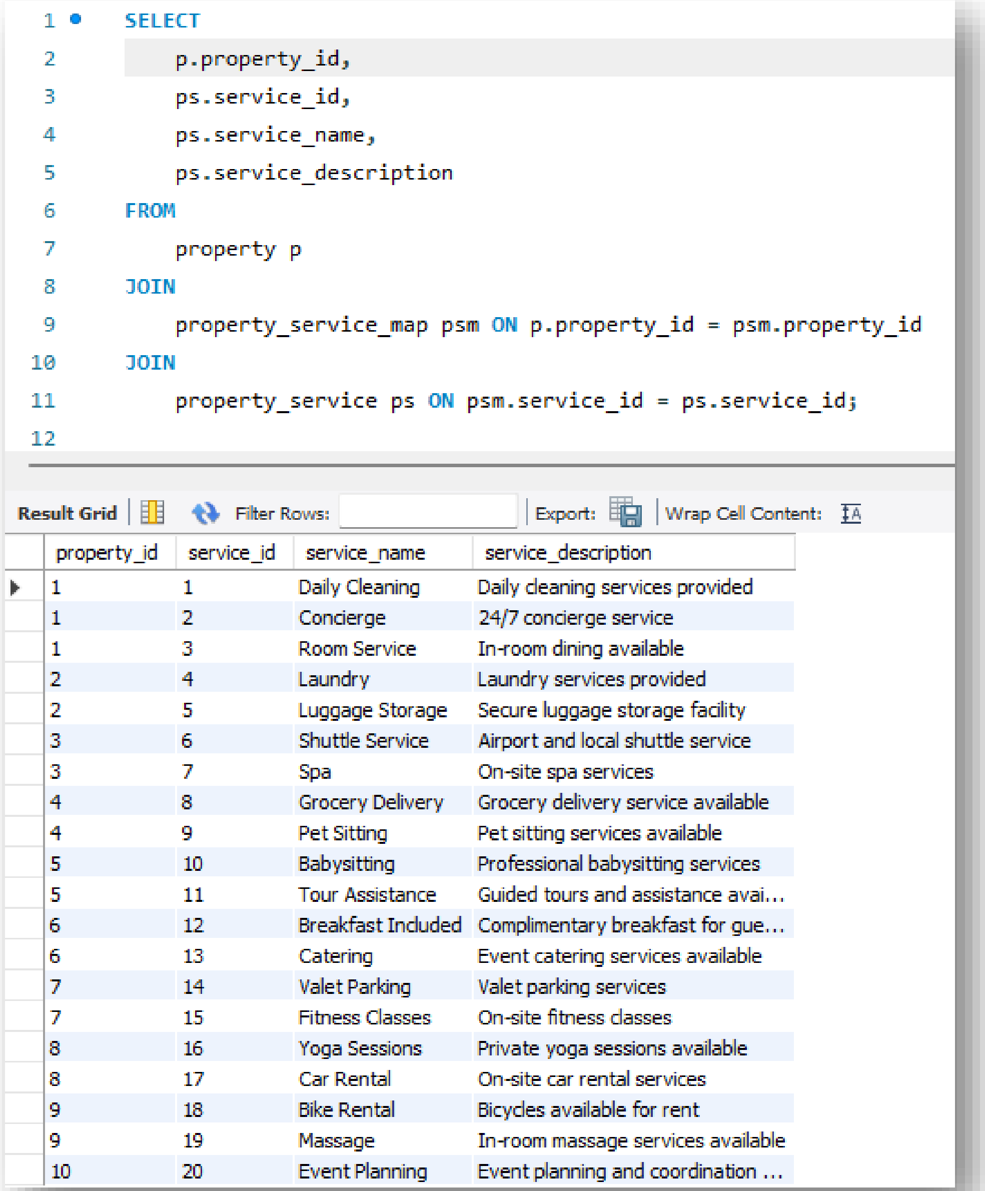
Create table



DDL for iu_project_header.property_service

```
CREATE TABLE `property_service` (
  `service_id` int NOT NULL,
  `service_name` varchar(255) DEFAULT NULL,
  `service_description` text,
  PRIMARY KEY (`service_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data from property_id and property service showing policies for properties

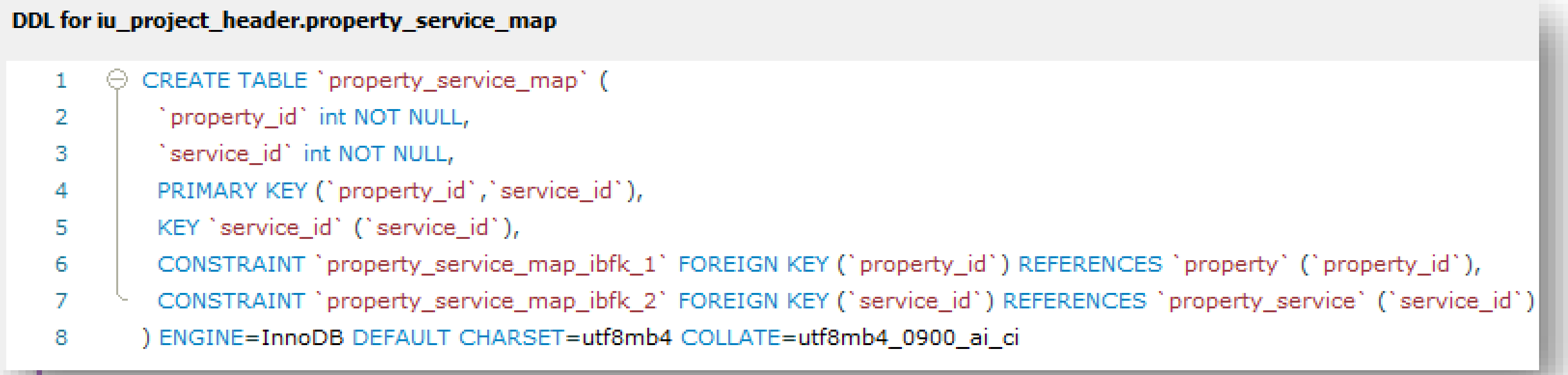


```
SELECT
    p.property_id,
    ps.service_id,
    ps.service_name,
    ps.service_description
FROM
    property p
JOIN
    property_service_map psm ON p.property_id = psm.property_id
JOIN
    property_service ps ON psm.service_id = ps.service_id;
```

property_id	service_id	service_name	service_description
1	1	Daily Cleaning	Daily cleaning services provided
1	2	Concierge	24/7 concierge service
1	3	Room Service	In-room dining available
2	4	Laundry	Laundry services provided
2	5	Luggage Storage	Secure luggage storage facility
3	6	Shuttle Service	Airport and local shuttle service
3	7	Spa	On-site spa services
4	8	Grocery Delivery	Grocery delivery service available
4	9	Pet Sitting	Pet sitting services available
5	10	Babysitting	Professional babysitting services
5	11	Tour Assistance	Guided tours and assistance avai...
6	12	Breakfast Included	Complimentary breakfast for gue...
6	13	Catering	Event catering services available
7	14	Valet Parking	Valet parking services
7	15	Fitness Classes	On-site fitness classes
8	16	Yoga Sessions	Private yoga sessions available
8	17	Car Rental	On-site car rental services
9	18	Bike Rental	Bicycles available for rent
9	19	Massage	In-room massage services available
10	20	Event Planning	Event planning and coordination ...

Property Service Map Table

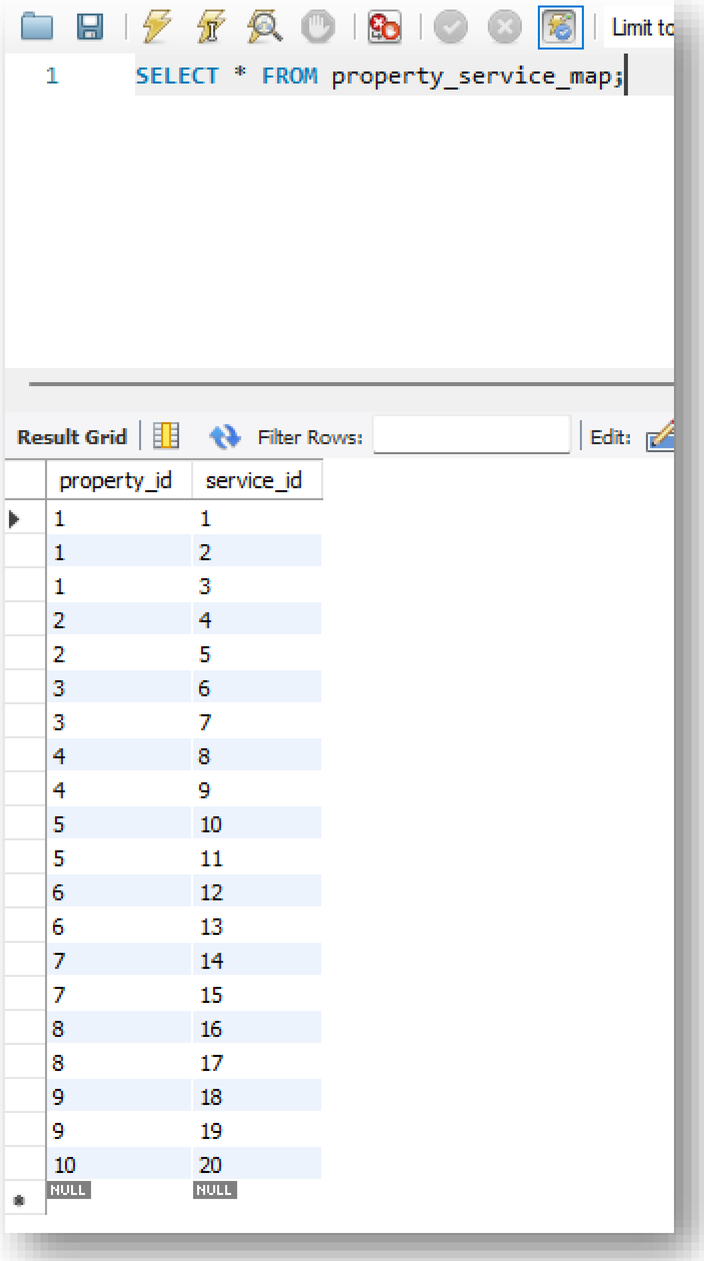
Create table



DDL for iu_project_header.property_service_map

```
CREATE TABLE `property_service_map` (
  `property_id` int NOT NULL,
  `service_id` int NOT NULL,
  PRIMARY KEY (`property_id`,`service_id`),
  KEY `service_id` (`service_id`),
  CONSTRAINT `property_service_map_ibfk_1` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`),
  CONSTRAINT `property_service_map_ibfk_2` FOREIGN KEY (`service_id`) REFERENCES `property_service` (`service_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data



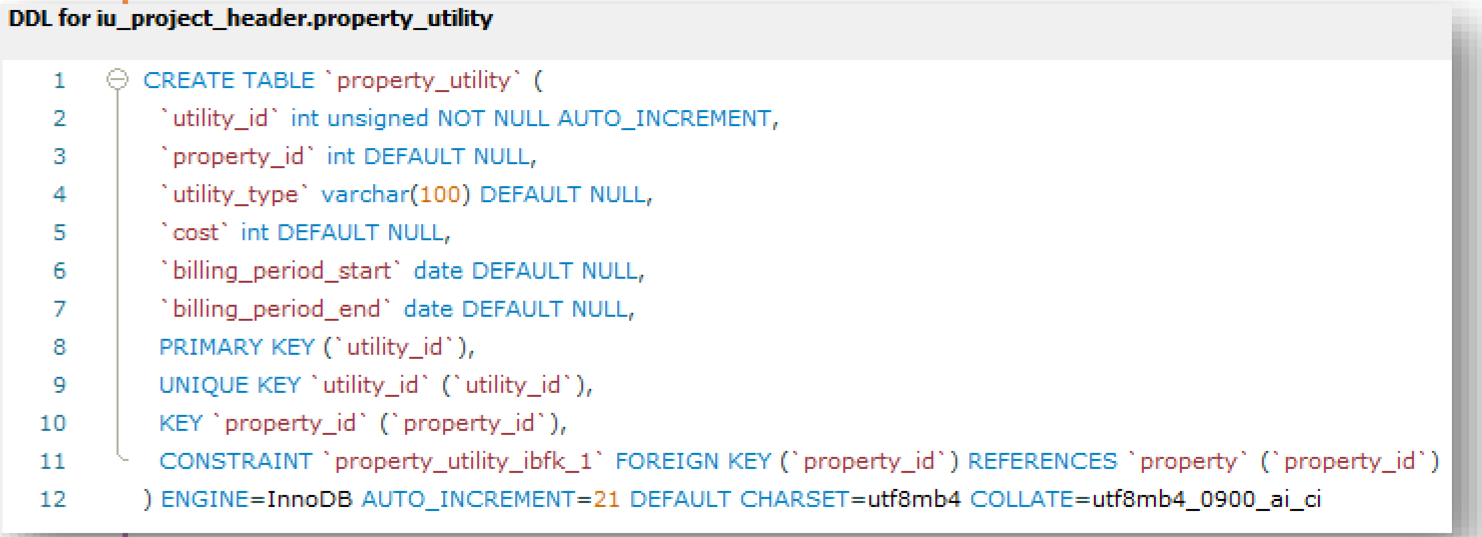
```
SELECT * FROM property_service_map;
```

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

Specific query can be found in property service slide

Property Utility Table

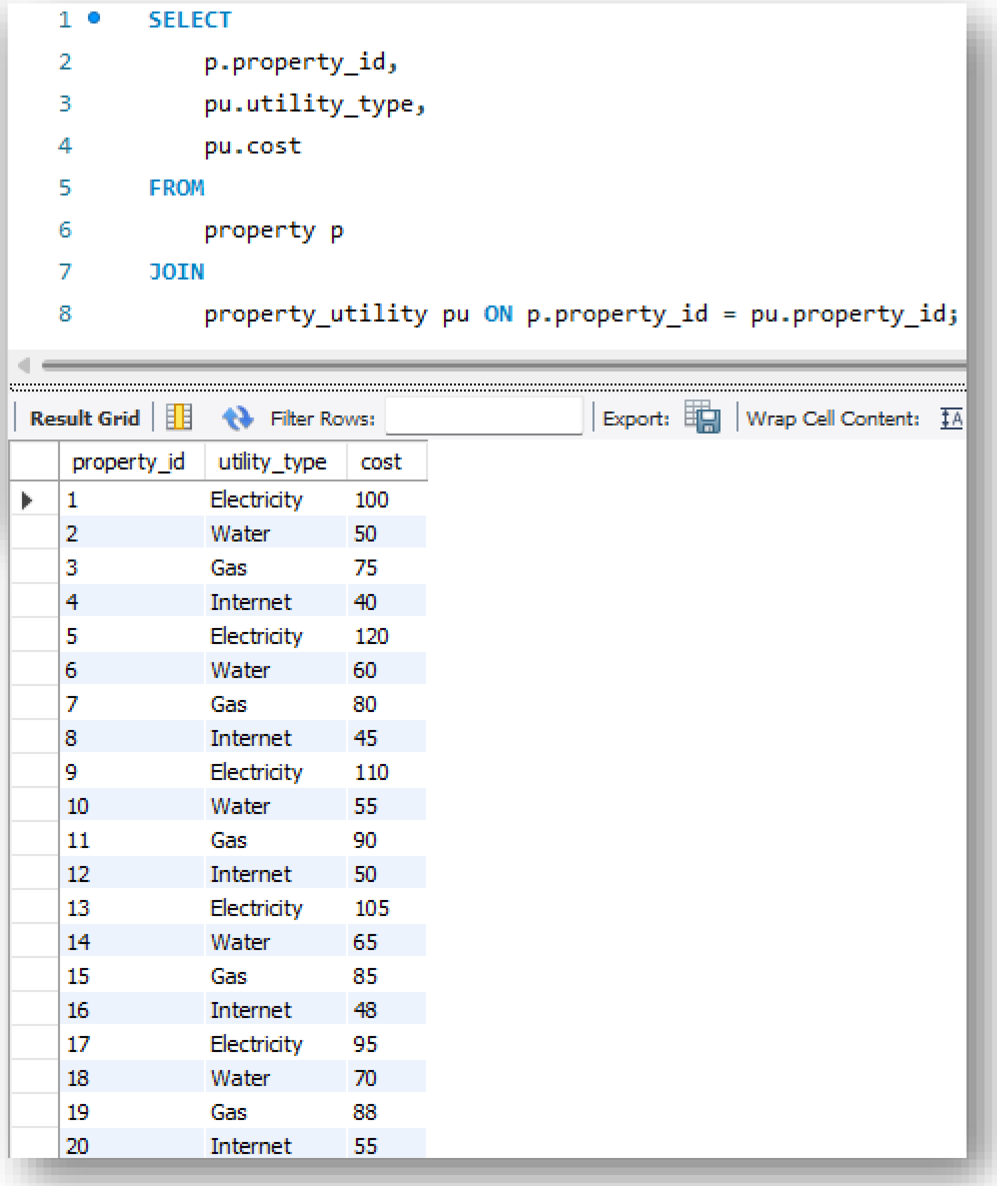
Create table



DDL for iu_project_header.property_utility

```sql
CREATE TABLE `property_utility` (
  `utility_id` int unsigned NOT NULL AUTO_INCREMENT,
  `property_id` int DEFAULT NULL,
  `utility_type` varchar(100) DEFAULT NULL,
  `cost` int DEFAULT NULL,
  `billing_period_start` date DEFAULT NULL,
  `billing_period_end` date DEFAULT NULL,
  PRIMARY KEY (`utility_id`),
  UNIQUE KEY `utility_id` (`utility_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `property_utility_ibfk_1` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data of property and property utilities together, showing the bills for utilities of properties

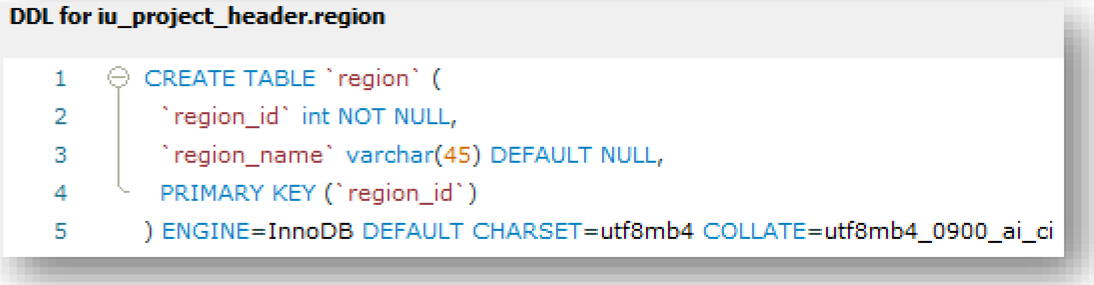


```sql
SELECT
    p.property_id,
    pu.utility_type,
    pu.cost
FROM
    property p
JOIN
    property_utility pu ON p.property_id = pu.property_id;
```

property_id	utility_type	cost
1	Electricity	100
2	Water	50
3	Gas	75
4	Internet	40
5	Electricity	120
6	Water	60
7	Gas	80
8	Internet	45
9	Electricity	110
10	Water	55
11	Gas	90
12	Internet	50
13	Electricity	105
14	Water	65
15	Gas	85
16	Internet	48
17	Electricity	95
18	Water	70
19	Gas	88
20	Internet	55

Region Table

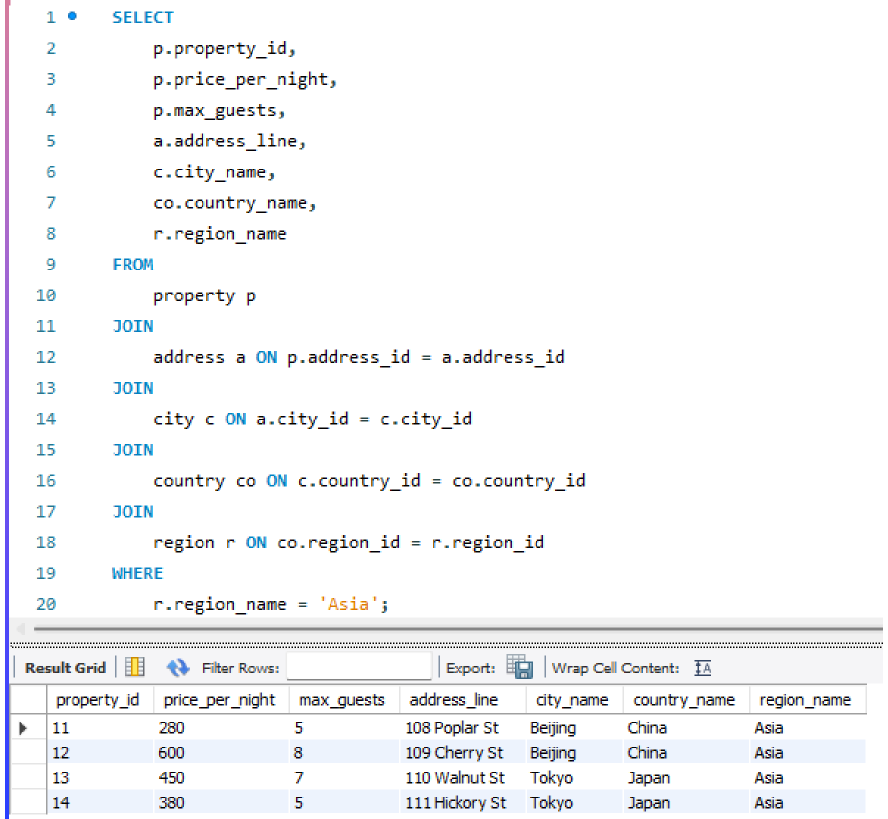
Create table



DDL for iu_project_header.region

```
CREATE TABLE `region` (
  `region_id` int NOT NULL,
  `region_name` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`region_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

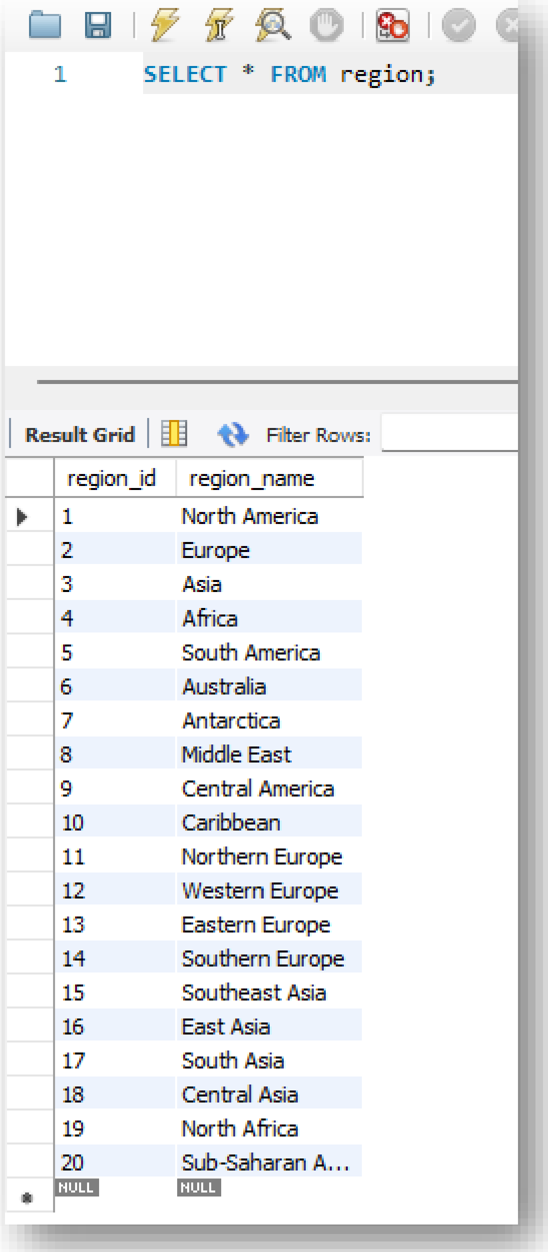
Query showing all properties in Asia



```
SELECT
    p.property_id,
    p.price_per_night,
    p.max_guests,
    a.address_line,
    c.city_name,
    co.country_name,
    r.region_name
FROM
    property p
JOIN
    address a ON p.address_id = a.address_id
JOIN
    city c ON a.city_id = c.city_id
JOIN
    country co ON c.country_id = co.country_id
JOIN
    region r ON co.region_id = r.region_id
WHERE
    r.region_name = 'Asia';
```

property_id	price_per_night	max_guests	address_line	city_name	country_name	region_name
11	280	5	108 Poplar St	Beijing	China	Asia
12	600	8	109 Cherry St	Beijing	China	Asia
13	450	7	110 Walnut St	Tokyo	Japan	Asia
14	380	5	111 Hickory St	Tokyo	Japan	Asia

Query showing data

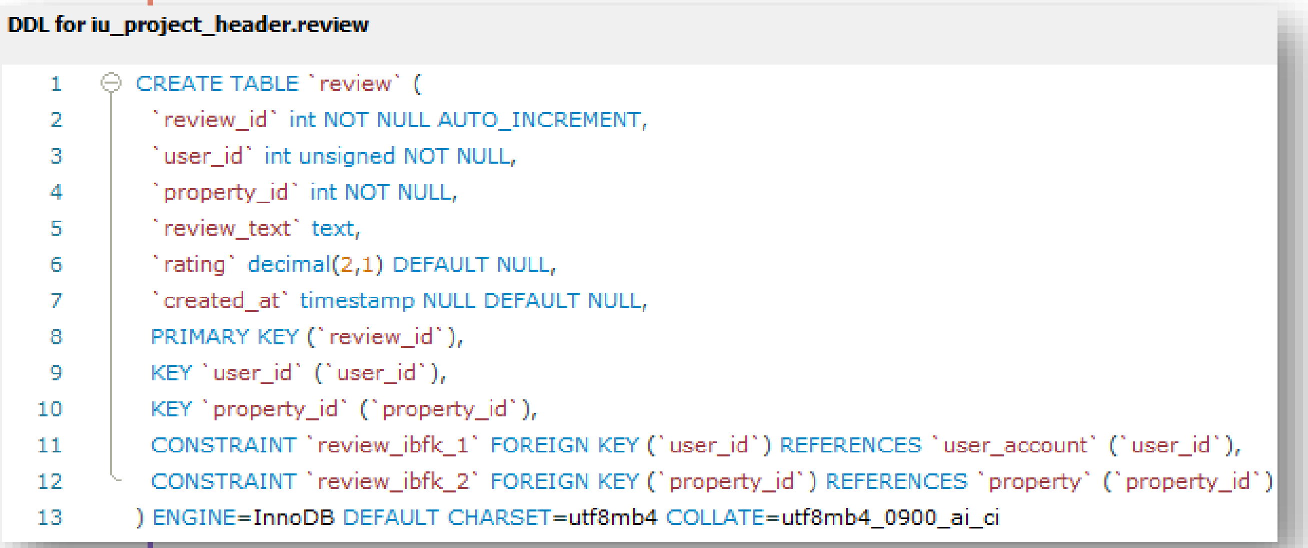


```
SELECT * FROM region;
```

region_id	region_name
1	North America
2	Europe
3	Asia
4	Africa
5	South America
6	Australia
7	Antarctica
8	Middle East
9	Central America
10	Caribbean
11	Northern Europe
12	Western Europe
13	Eastern Europe
14	Southern Europe
15	Southeast Asia
16	East Asia
17	South Asia
18	Central Asia
19	North Africa
20	Sub-Saharan A...
NULL	NULL

Review Table

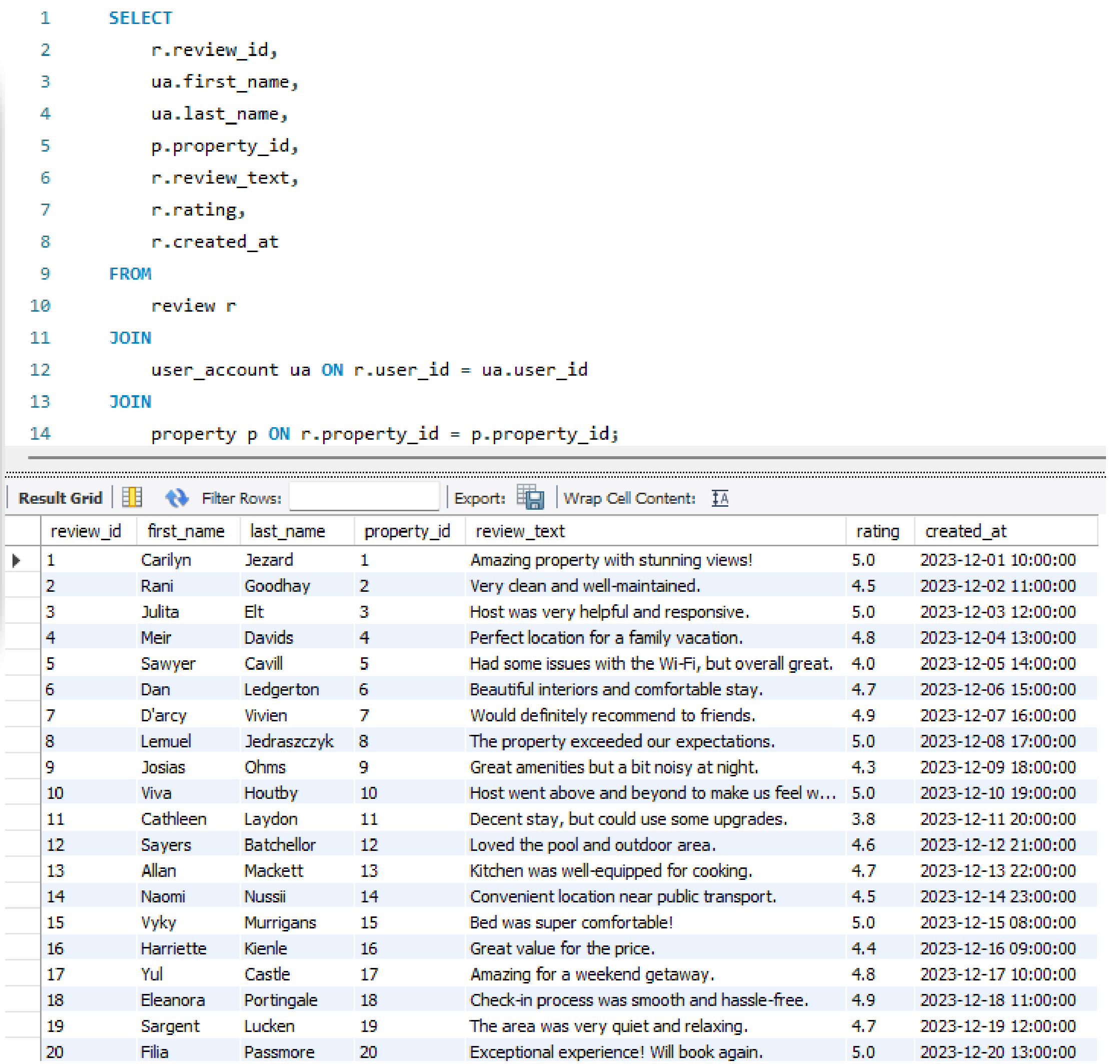
Create table



DDL for iu_project_header.review

```
CREATE TABLE `review` (
  `review_id` int NOT NULL AUTO_INCREMENT,
  `user_id` int unsigned NOT NULL,
  `property_id` int NOT NULL,
  `review_text` text,
  `rating` decimal(2,1) DEFAULT NULL,
  `created_at` timestamp NULL DEFAULT NULL,
  PRIMARY KEY (`review_id`),
  KEY `user_id` (`user_id`),
  KEY `property_id` (`property_id`),
  CONSTRAINT `review_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `review_ibfk_2` FOREIGN KEY (`property_id`) REFERENCES `property` (`property_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data from reviews, user accounts and properties with ratings from people that wrote the review including its context

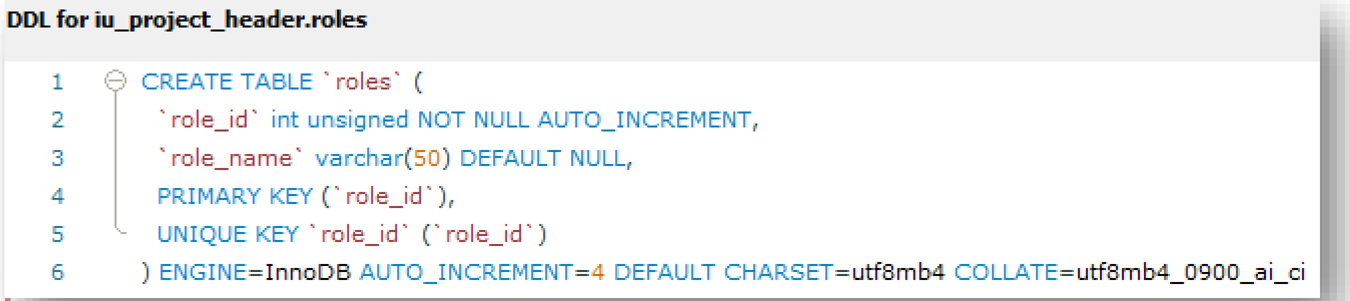


```
SELECT
    r.review_id,
    ua.first_name,
    ua.last_name,
    p.property_id,
    r.review_text,
    r.rating,
    r.created_at
FROM
    review r
JOIN
    user_account ua ON r.user_id = ua.user_id
JOIN
    property p ON r.property_id = p.property_id;
```

review_id	first_name	last_name	property_id	review_text	rating	created_at
1	Carilyn	Jezard	1	Amazing property with stunning views!	5.0	2023-12-01 10:00:00
2	Rani	Goodhay	2	Very clean and well-maintained.	4.5	2023-12-02 11:00:00
3	Julita	Elt	3	Host was very helpful and responsive.	5.0	2023-12-03 12:00:00
4	Meir	Davids	4	Perfect location for a family vacation.	4.8	2023-12-04 13:00:00
5	Sawyer	Cavill	5	Had some issues with the Wi-Fi, but overall great.	4.0	2023-12-05 14:00:00
6	Dan	Ledgerton	6	Beautiful interiors and comfortable stay.	4.7	2023-12-06 15:00:00
7	D'arcy	Vivien	7	Would definitely recommend to friends.	4.9	2023-12-07 16:00:00
8	Lemuel	Jedraszczyk	8	The property exceeded our expectations.	5.0	2023-12-08 17:00:00
9	Josias	Ohms	9	Great amenities but a bit noisy at night.	4.3	2023-12-09 18:00:00
10	Viva	Houtby	10	Host went above and beyond to make us feel w...	5.0	2023-12-10 19:00:00
11	Cathleen	Laydon	11	Decent stay, but could use some upgrades.	3.8	2023-12-11 20:00:00
12	Sayers	Batchellor	12	Loved the pool and outdoor area.	4.6	2023-12-12 21:00:00
13	Allan	Mackett	13	Kitchen was well-equipped for cooking.	4.7	2023-12-13 22:00:00
14	Naomi	Nussii	14	Convenient location near public transport.	4.5	2023-12-14 23:00:00
15	Vyky	Murrigans	15	Bed was super comfortable!	5.0	2023-12-15 08:00:00
16	Harriette	Kienle	16	Great value for the price.	4.4	2023-12-16 09:00:00
17	Yul	Castle	17	Amazing for a weekend getaway.	4.8	2023-12-17 10:00:00
18	Eleanora	Portingale	18	Check-in process was smooth and hassle-free.	4.9	2023-12-18 11:00:00
19	Sargent	Lucken	19	The area was very quiet and relaxing.	4.7	2023-12-19 12:00:00
20	Filia	Passmore	20	Exceptional experience! Will book again.	5.0	2023-12-20 13:00:00

Roles Table

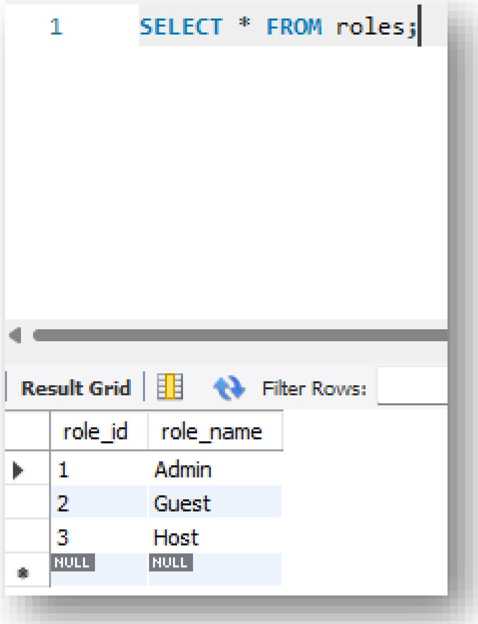
Create table



DDL for iu_project_header.roles

```
CREATE TABLE `roles` (
  `role_id` int unsigned NOT NULL AUTO_INCREMENT,
  `role_name` varchar(50) DEFAULT NULL,
  PRIMARY KEY (`role_id`),
  UNIQUE KEY `role_id` (`role_id`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

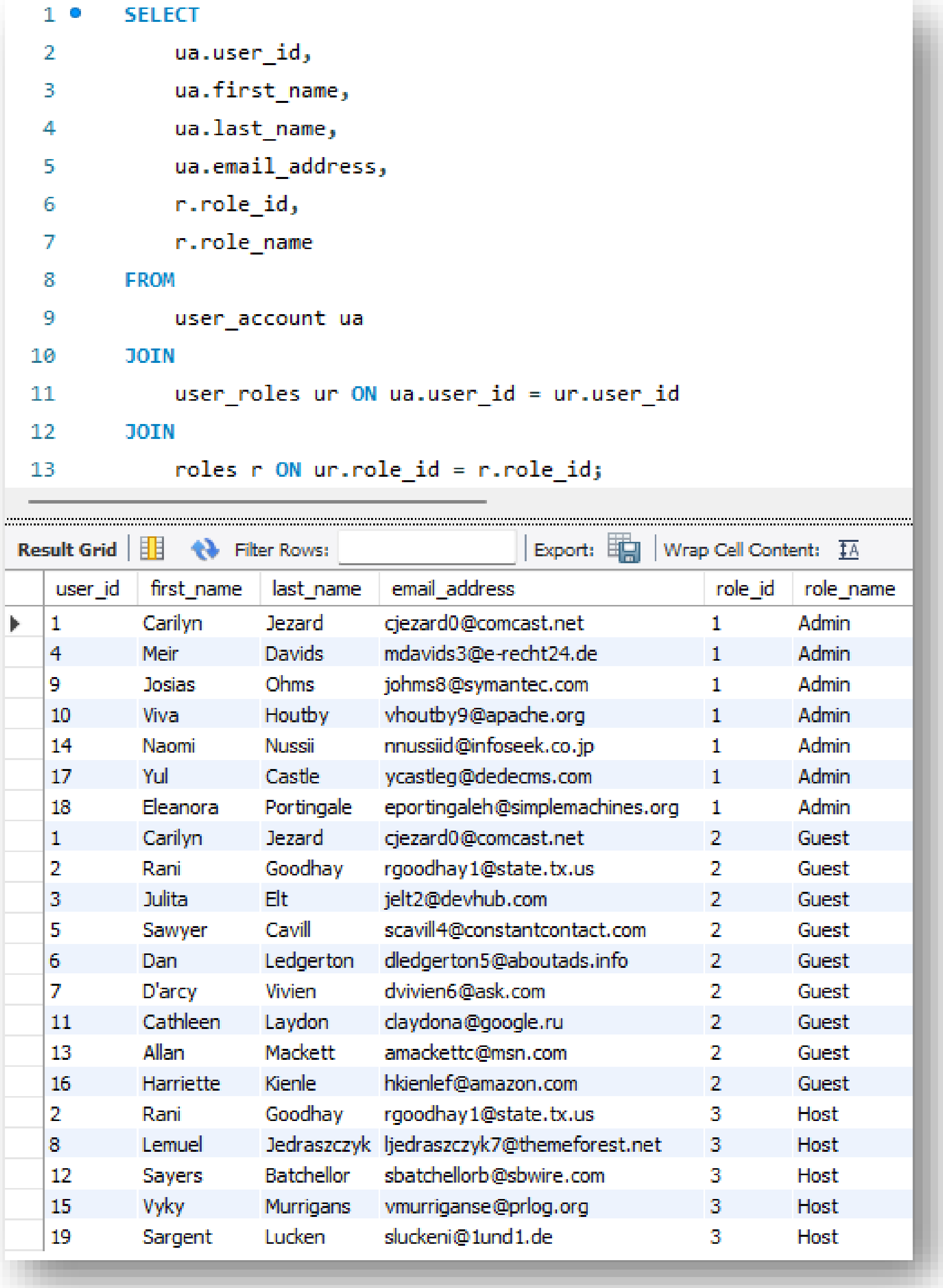
Query showing data from the table



```
SELECT * FROM roles;
```

role_id	role_name
1	Admin
2	Guest
3	Host
NULL	NULL

Query showing roles of users and their names

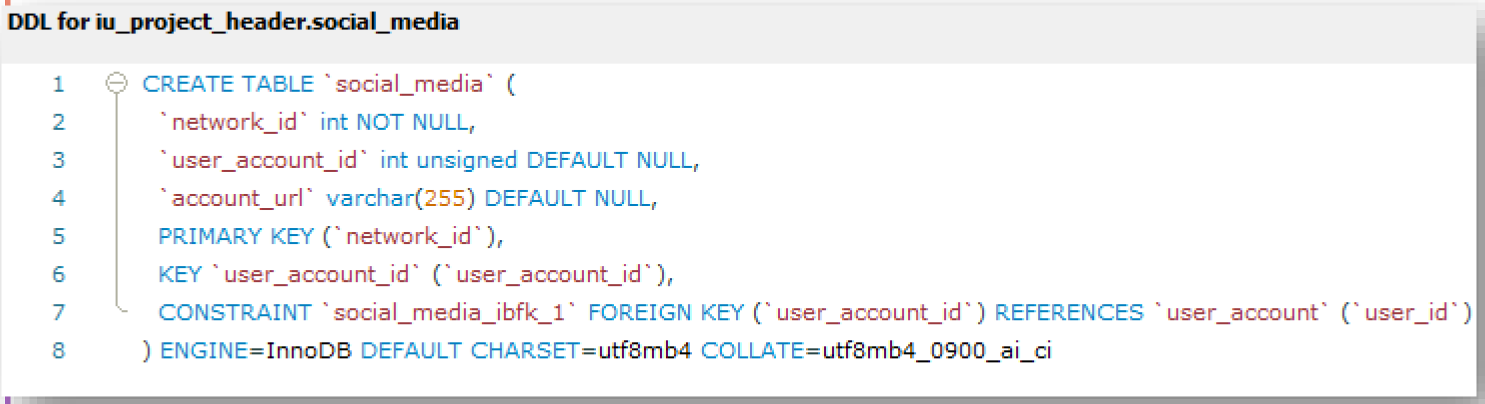


```
SELECT
    ua.user_id,
    ua.first_name,
    ua.last_name,
    ua.email_address,
    r.role_id,
    r.role_name
FROM
    user_account ua
JOIN
    user_roles ur ON ua.user_id = ur.user_id
JOIN
    roles r ON ur.role_id = r.role_id;
```

user_id	first_name	last_name	email_address	role_id	role_name
1	Carilyn	Jezard	cjezard0@comcast.net	1	Admin
4	Meir	Davids	mdavids3@e-recht24.de	1	Admin
9	Josias	Ohms	johms8@symantec.com	1	Admin
10	Viva	Houtby	vhoutby9@apache.org	1	Admin
14	Naomi	Nussii	nnussiid@infoseek.co.jp	1	Admin
17	Yul	Castle	ycastleg@dedecms.com	1	Admin
18	Eleanora	Portingale	eportingaleh@simplemachines.org	1	Admin
1	Carilyn	Jezard	cjezard0@comcast.net	2	Guest
2	Rani	Goodhay	rgoodhay1@state.tx.us	2	Guest
3	Julita	Elt	jelt2@devhub.com	2	Guest
5	Sawyer	Cavill	scavill4@constantcontact.com	2	Guest
6	Dan	Ledgerton	dledgerton5@aboutads.info	2	Guest
7	D'arcy	Vivien	dvivien6@ask.com	2	Guest
11	Cathleen	Laydon	claydona@google.ru	2	Guest
13	Allan	Mackett	amackettc@msn.com	2	Guest
16	Harriette	Kienle	hkienlef@amazon.com	2	Guest
2	Rani	Goodhay	rgoodhay1@state.tx.us	3	Host
8	Lemuel	Jedraszczyk	ljedraszczyk7@themeforest.net	3	Host
12	Sayers	Batchellor	sbatchellorb@sbwire.com	3	Host
15	Vyky	Murrigans	vmurriganse@prlog.org	3	Host
19	Sargent	Lucken	sluckeni@1und1.de	3	Host

Social Media Table

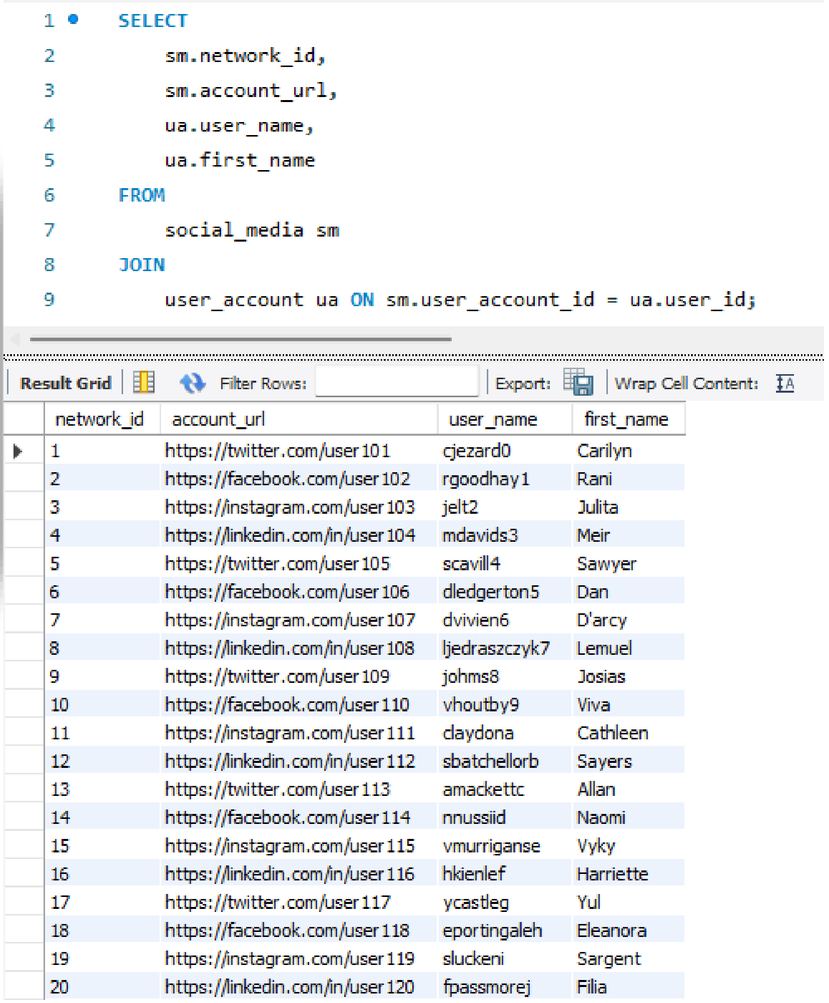
Create table



DDL for iu_project_header.social_media

```
CREATE TABLE `social_media` (
  `network_id` int NOT NULL,
  `user_account_id` int unsigned DEFAULT NULL,
  `account_url` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`network_id`),
  KEY `user_account_id` (`user_account_id`),
  CONSTRAINT `social_media_ibfk_1` FOREIGN KEY (`user_account_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing the URLs of social networks and usernames with name

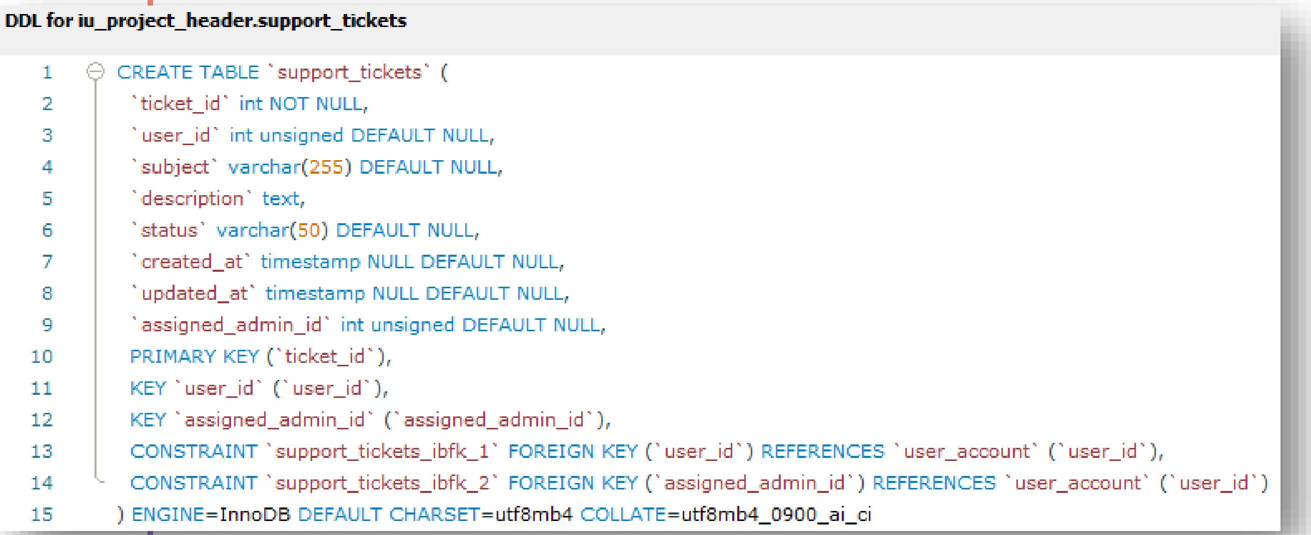


```
SELECT
    sm.network_id,
    sm.account_url,
    ua.user_name,
    ua.first_name
FROM
    social_media sm
JOIN
    user_account ua ON sm.user_account_id = ua.user_id;
```

network_id	account_url	user_name	first_name
1	https://twitter.com/user101	cjezard0	Carilyn
2	https://facebook.com/user102	rgoodhay1	Rani
3	https://instagram.com/user103	jelt2	Julita
4	https://linkedin.com/in/user104	mdavids3	Meir
5	https://twitter.com/user105	scavill4	Sawyer
6	https://facebook.com/user106	dledgerton5	Dan
7	https://instagram.com/user107	dvivien6	D'arcy
8	https://linkedin.com/in/user108	ljedraszczyk7	Lemuel
9	https://twitter.com/user109	johms8	Josias
10	https://facebook.com/user110	vhoutby9	Viva
11	https://instagram.com/user111	claydona	Cathleen
12	https://linkedin.com/in/user112	sbatchellorb	Sayers
13	https://twitter.com/user113	amackettc	Allan
14	https://facebook.com/user114	nnussiid	Naomi
15	https://instagram.com/user115	vmurriganse	Vyky
16	https://linkedin.com/in/user116	hkienlef	Harriette
17	https://twitter.com/user117	ycastleg	Yul
18	https://facebook.com/user118	eportingaleh	Eleanora
19	https://instagram.com/user119	sluckeni	Sargent
20	https://linkedin.com/in/user120	fpassmorej	Filia

Support Tickets Table

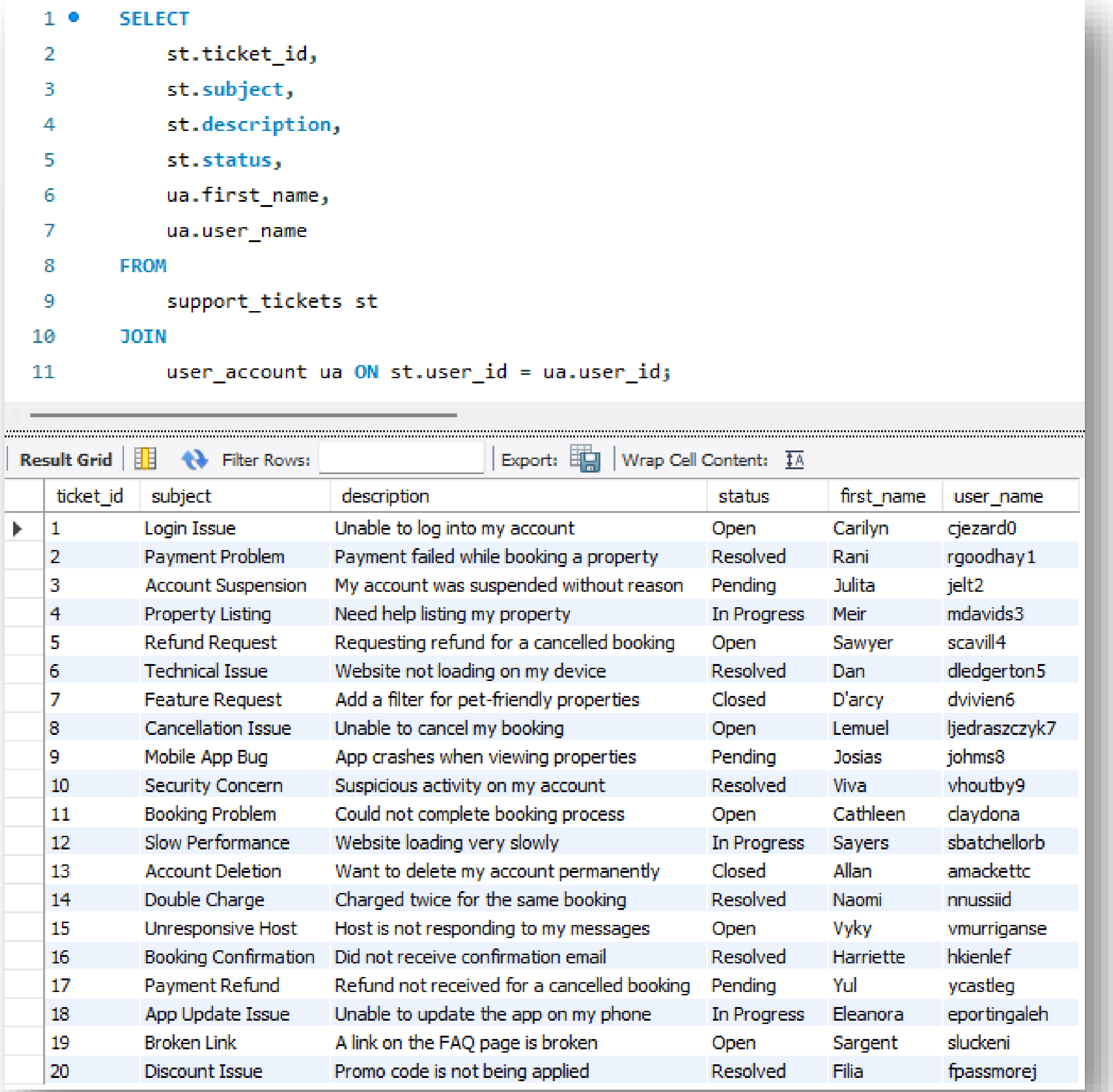
Create table



DDL for iu_project_header.support_tickets

```
CREATE TABLE `support_tickets` (
  `ticket_id` int NOT NULL,
  `user_id` int unsigned DEFAULT NULL,
  `subject` varchar(255) DEFAULT NULL,
  `description` text,
  `status` varchar(50) DEFAULT NULL,
  `created_at` timestamp NULL DEFAULT NULL,
  `updated_at` timestamp NULL DEFAULT NULL,
  `assigned_admin_id` int unsigned DEFAULT NULL,
  PRIMARY KEY (`ticket_id`),
  KEY `user_id` (`user_id`),
  KEY `assigned_admin_id` (`assigned_admin_id`),
  CONSTRAINT `support_tickets_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `support_tickets_ibfk_2` FOREIGN KEY (`assigned_admin_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data from support tickets showing the username, names and descriptions with status and subject

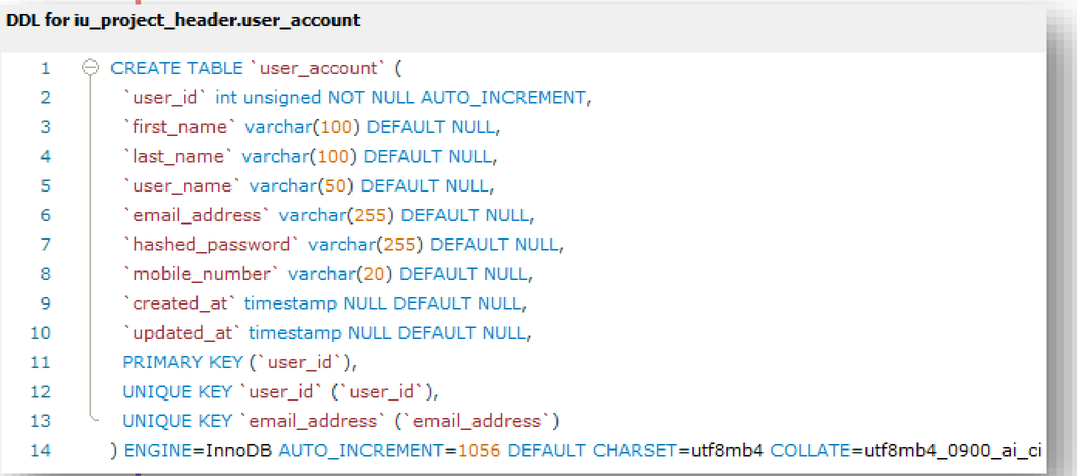


```
SELECT
    st.ticket_id,
    st.subject,
    st.description,
    st.status,
    ua.first_name,
    ua.user_name
FROM
    support_tickets st
JOIN
    user_account ua ON st.user_id = ua.user_id;
```

ticket_id	subject	description	status	first_name	user_name
1	Login Issue	Unable to log into my account	Open	Carilyn	cjezard0
2	Payment Problem	Payment failed while booking a property	Resolved	Rani	rgoodhay1
3	Account Suspension	My account was suspended without reason	Pending	Julita	jelt2
4	Property Listing	Need help listing my property	In Progress	Meir	mdavids3
5	Refund Request	Requesting refund for a cancelled booking	Open	Sawyer	scavill4
6	Technical Issue	Website not loading on my device	Resolved	Dan	dledgerton5
7	Feature Request	Add a filter for pet-friendly properties	Closed	D'arcy	dvivien6
8	Cancellation Issue	Unable to cancel my booking	Open	Lemuel	ljedraszczyk7
9	Mobile App Bug	App crashes when viewing properties	Pending	Josias	johms8
10	Security Concern	Suspicious activity on my account	Resolved	Viva	vhoutby9
11	Booking Problem	Could not complete booking process	Open	Cathleen	claydona
12	Slow Performance	Website loading very slowly	In Progress	Sayers	sbatchellorb
13	Account Deletion	Want to delete my account permanently	Closed	Allan	amackettc
14	Double Charge	Charged twice for the same booking	Resolved	Naomi	nnussiid
15	Unresponsive Host	Host is not responding to my messages	Open	Vyky	vmurriganse
16	Booking Confirmation	Did not receive confirmation email	Resolved	Harriette	hkienlef
17	Payment Refund	Refund not received for a cancelled booking	Pending	Yul	ycastleg
18	App Update Issue	Unable to update the app on my phone	In Progress	Eleanora	eportingaleh
19	Broken Link	A link on the FAQ page is broken	Open	Sargent	sluckeni
20	Discount Issue	Promo code is not being applied	Resolved	Filia	fpassmorej

User Account Table

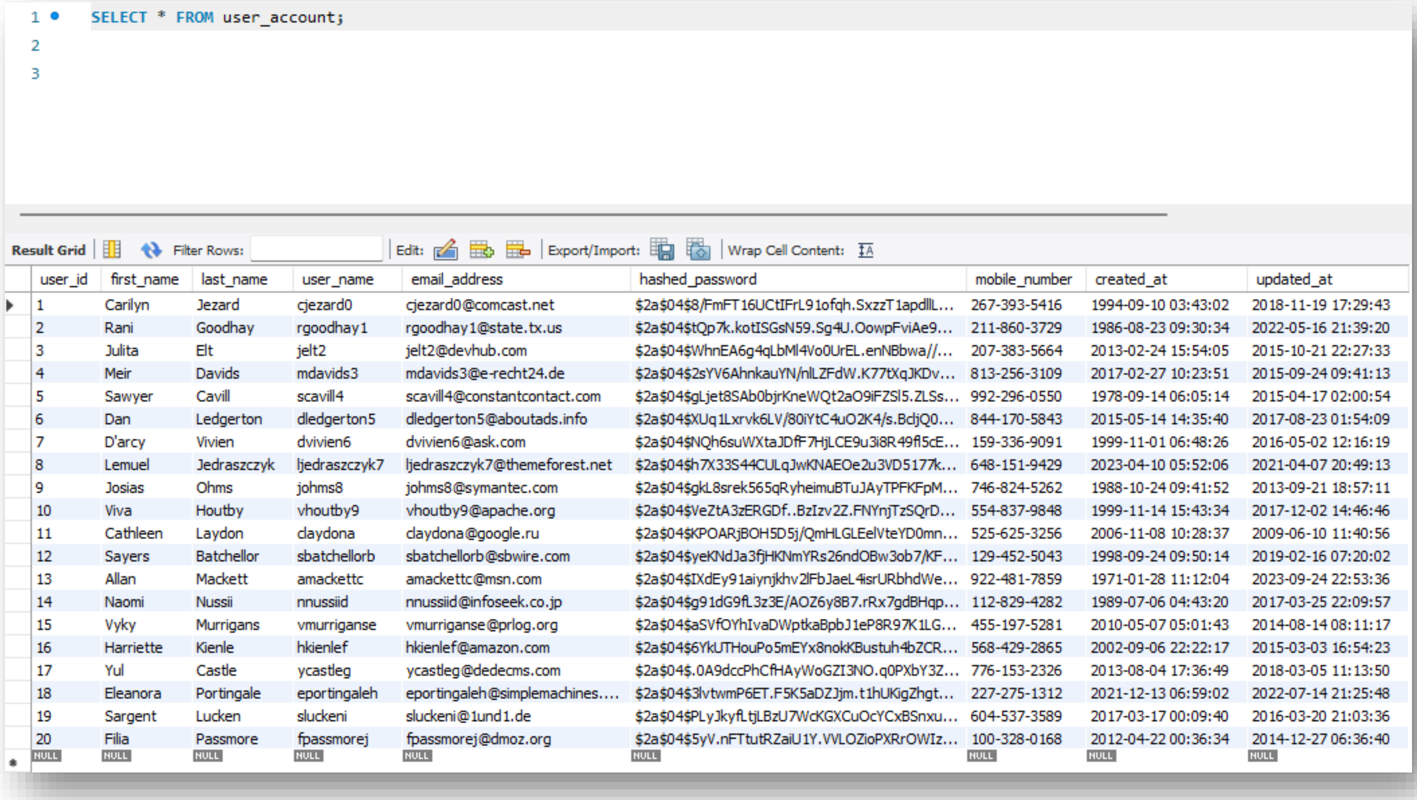
Create table



DDL for iu_project_header.user_account

```
CREATE TABLE `user_account` (
  `user_id` int unsigned NOT NULL AUTO_INCREMENT,
  `first_name` varchar(100) DEFAULT NULL,
  `last_name` varchar(100) DEFAULT NULL,
  `user_name` varchar(50) DEFAULT NULL,
  `email_address` varchar(255) DEFAULT NULL,
  `hashed_password` varchar(255) DEFAULT NULL,
  `mobile_number` varchar(20) DEFAULT NULL,
  `created_at` timestamp NULL DEFAULT NULL,
  `updated_at` timestamp NULL DEFAULT NULL,
  PRIMARY KEY (`user_id`),
  UNIQUE KEY `user_id` (`user_id`),
  UNIQUE KEY `email_address` (`email_address`)
) ENGINE=InnoDB AUTO_INCREMENT=1056 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data



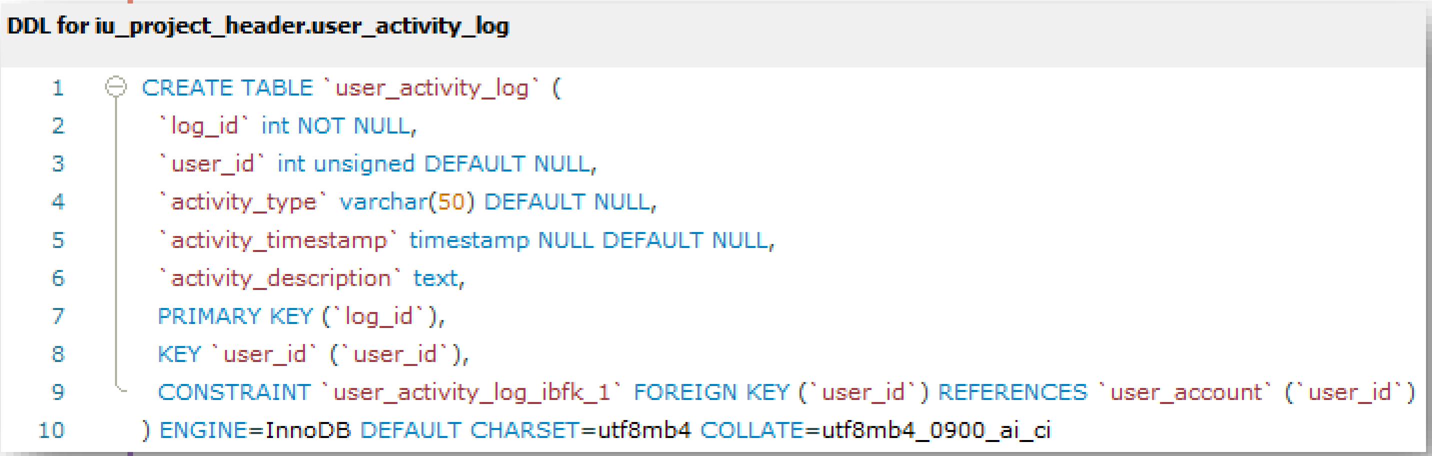
```
SELECT * FROM user_account;
```

user_id	first_name	last_name	user_name	email_address	hashed_password	mobile_number	created_at	updated_at
1	Carilyn	Jezard	cjezard0	cjezard0@comcast.net	$2a$04$8/FmFT16UCtIFrL91ofqh.SxzzT1apdllL...	267-393-5416	1994-09-10 03:43:02	2018-11-19 17:29:43
2	Rani	Goodhay	rgoodhay1	rgoodhay1@state.tx.us	$2a$04$tQp7k.kotISGsN59.Sg4U.OowpFviAe9...	211-860-3729	1986-08-23 09:30:34	2022-05-16 21:39:20
3	Julita	Elt	jelt2	jelt2@devhub.com	$2a$04$WhnEA6g4qLbMl4Vo0UrEL.enNBbwa//...	207-383-5664	2013-02-24 15:54:05	2015-10-21 22:27:33
4	Meir	Davids	mdavids3	mdavids3@e-recht24.de	$2a$04$2sYV6AhnkauYN/nlLZFdW.K77tXqJKDv...	813-256-3109	2017-02-27 10:23:51	2015-09-24 09:41:13
5	Sawyer	Cavill	scavill4	scavill4@constantcontact.com	$2a$04$gLjet8SAb0bjrKneWQt2aO9iFZSl5.ZLSs...	992-296-0550	1978-09-14 06:05:14	2015-04-17 02:00:54
6	Dan	Ledgerton	dledgerton5	dledgerton5@aboutads.info	$2a$04$XUq1Lxrvk6LV/80iYtC4uO2K4/s.BcljQ0...	844-170-5843	2015-05-14 14:35:40	2017-08-23 01:54:09
7	D'arcy	Vivien	dvivien6	dvivien6@ask.com	$2a$04$NQh6suWXtaJDfF7HjLCE9u3i8R49fl5cE...	159-336-9091	1999-11-01 06:48:26	2016-05-02 12:16:19
8	Lemuel	Jedraszczyk	ljedraszczyk7	ljedraszczyk7@themeforest.net	$2a$04$h7X33S44CULqJwKNAEOe2u3VD5177k...	648-151-9429	2023-04-10 05:52:06	2021-04-07 20:49:13
9	Josias	Ohms	johms8	johms8@symantec.com	$2a$04$gkL8srek565qRyheimuBTuJAyTPFKFpM...	746-824-5262	1988-10-24 09:41:52	2013-09-21 18:57:11
10	Viva	Houtby	vhoutby9	vhoutby9@apache.org	$2a$04$VeZtA3zERGDf..BzIzv2Z.FNYnjTzSQrD...	554-837-9848	1999-11-14 15:43:34	2017-12-02 14:46:46
11	Cathleen	Laydon	claydona	claydona@google.ru	$2a$04$KPOARjBOH5D5j/QmHLGLEelVteYD0mn...	525-625-3256	2006-11-08 10:28:37	2009-06-10 11:40:56
12	Sayers	Batchellor	sbatchellorb	sbatchellorb@sbwire.com	$2a$04$yeKNdJa3fjHKNmYRs26ndOBw3ob7/KF...	129-452-5043	1998-09-24 09:50:14	2019-02-16 07:20:02
13	Allan	Mackett	amackettc	amackettc@msn.com	$2a$04$IXdEy91aiynjkhv2lFbJaeL4isrURbhdWe...	922-481-7859	1971-01-28 11:12:04	2023-09-24 22:53:36
14	Naomi	Nussii	nnussiid	nnussiid@infoseek.co.jp	$2a$04$g91dG9fL3z3E/AOZ6y8B7.rRx7gdBHqp...	112-829-4282	1989-07-06 04:43:20	2017-03-25 22:09:57
15	Vyky	Murrigans	vmurriganse	vmurriganse@prlog.org	$2a$04$aSVfOYhIvaDWptkaBpbJ1eP8R97K1LG...	455-197-5281	2010-05-07 05:01:43	2014-08-14 08:11:17
16	Harriette	Kienle	hkienlef	hkienlef@amazon.com	$2a$04$6YkUTHouPo5mEYx8nokKBustuh4bZCR...	568-429-2865	2002-09-06 22:22:17	2015-03-03 16:54:23
17	Yul	Castle	ycastleg	ycastleg@dedecms.com	$2a$04$.0A9dccPhCfHAyWoGZI3NO.q0PXbY3Z...	776-153-2326	2013-08-04 17:36:49	2018-03-05 11:13:50
18	Eleanora	Portingale	eportingaleh	eportingaleh@simplemachines....	$2a$04$3lvtwmP6ET.F5K5aDZJjm.t1hUKigZhgt...	227-275-1312	2021-12-13 06:59:02	2022-07-14 21:25:48
19	Sargent	Lucken	sluckeni	sluckeni@1und1.de	$2a$04$PLyJkyfLtjLBzU7WcKGXCuOcYCxBSnxu...	604-537-3589	2017-03-17 00:09:40	2016-03-20 21:03:36
20	Filia	Passmore	fpassmorej	fpassmorej@dmoz.org	$2a$04$5yV.nFTtutRZaiU1Y.VVLOZioPXRrOWIz...	100-328-0168	2012-04-22 00:36:34	2014-12-27 06:36:40
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Other presentation slides have queries combining data from user account table

User Activity Log Table

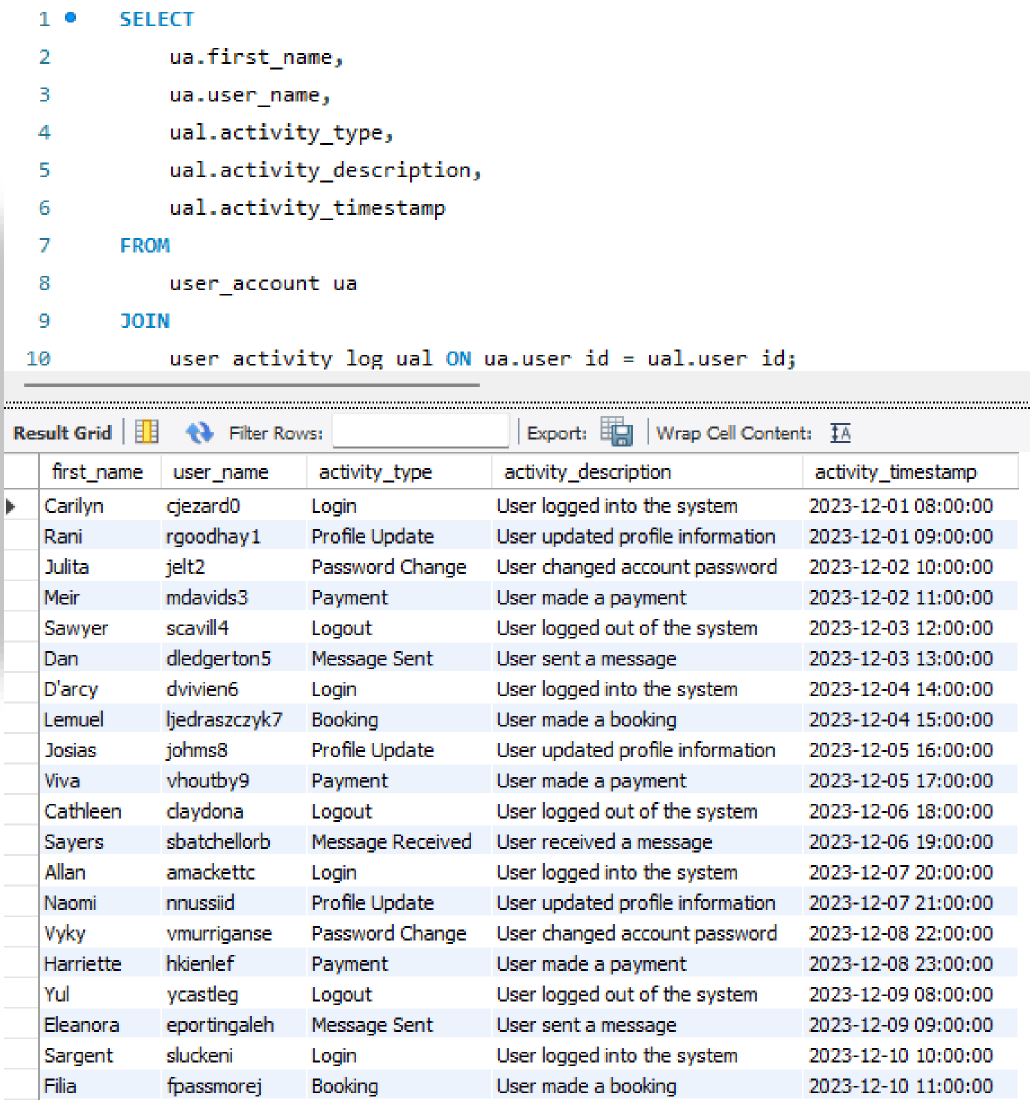
Create table



DDL for iu_project_header.user_activity_log

```
CREATE TABLE `user_activity_log` (
  `log_id` int NOT NULL,
  `user_id` int unsigned DEFAULT NULL,
  `activity_type` varchar(50) DEFAULT NULL,
  `activity_timestamp` timestamp NULL DEFAULT NULL,
  `activity_description` text,
  PRIMARY KEY (`log_id`),
  KEY `user_id` (`user_id`),
  CONSTRAINT `user_activity_log_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data from activity log and user account, showing names, usernames and activity types with timestamps

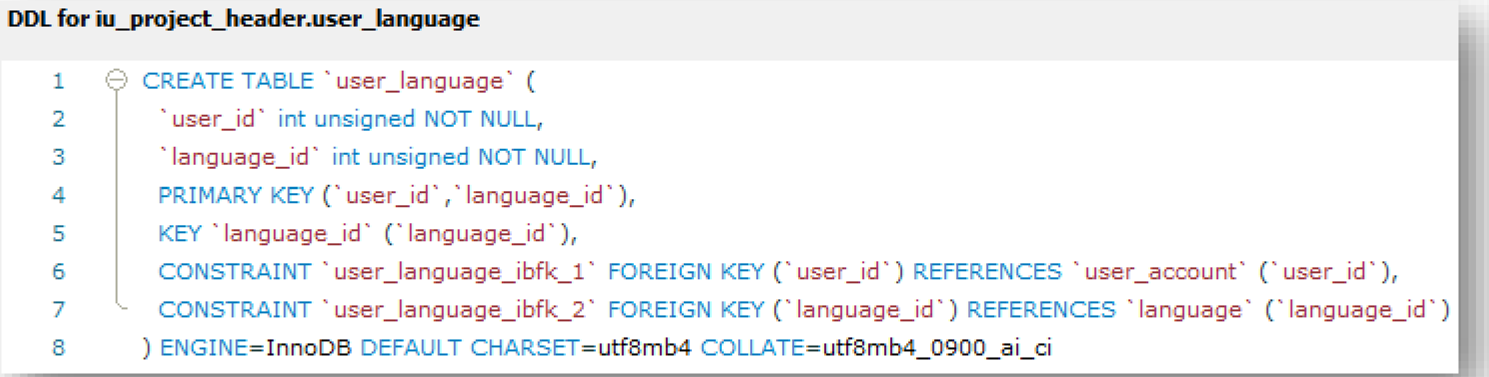


```
SELECT
    ua.first_name,
    ua.user_name,
    ual.activity_type,
    ual.activity_description,
    ual.activity_timestamp
FROM
    user_account ua
JOIN
    user_activity_log ual ON ua.user_id = ual.user_id;
```

first_name	user_name	activity_type	activity_description	activity_timestamp
Carilyn	cjezard0	Login	User logged into the system	2023-12-01 08:00:00
Rani	rgoodhay1	Profile Update	User updated profile information	2023-12-01 09:00:00
Julita	jelt2	Password Change	User changed account password	2023-12-02 10:00:00
Meir	mdavids3	Payment	User made a payment	2023-12-02 11:00:00
Sawyer	scavill4	Logout	User logged out of the system	2023-12-03 12:00:00
Dan	dledgerton5	Message Sent	User sent a message	2023-12-03 13:00:00
D'arcy	dvivien6	Login	User logged into the system	2023-12-04 14:00:00
Lemuel	ljedraszczyk7	Booking	User made a booking	2023-12-04 15:00:00
Josias	johms8	Profile Update	User updated profile information	2023-12-05 16:00:00
Viva	vhoutby9	Payment	User made a payment	2023-12-05 17:00:00
Cathleen	claydona	Logout	User logged out of the system	2023-12-06 18:00:00
Sayers	sbatchellorb	Message Received	User received a message	2023-12-06 19:00:00
Allan	amackettc	Login	User logged into the system	2023-12-07 20:00:00
Naomi	nnussiid	Profile Update	User updated profile information	2023-12-07 21:00:00
Vyky	vmurriganse	Password Change	User changed account password	2023-12-08 22:00:00
Harriette	hkienlef	Payment	User made a payment	2023-12-08 23:00:00
Yul	ycastleg	Logout	User logged out of the system	2023-12-09 08:00:00
Eleanora	eportingaleh	Message Sent	User sent a message	2023-12-09 09:00:00
Sargent	sluckeni	Login	User logged into the system	2023-12-10 10:00:00
Filia	fpassmorej	Booking	User made a booking	2023-12-10 11:00:00

User Language Table

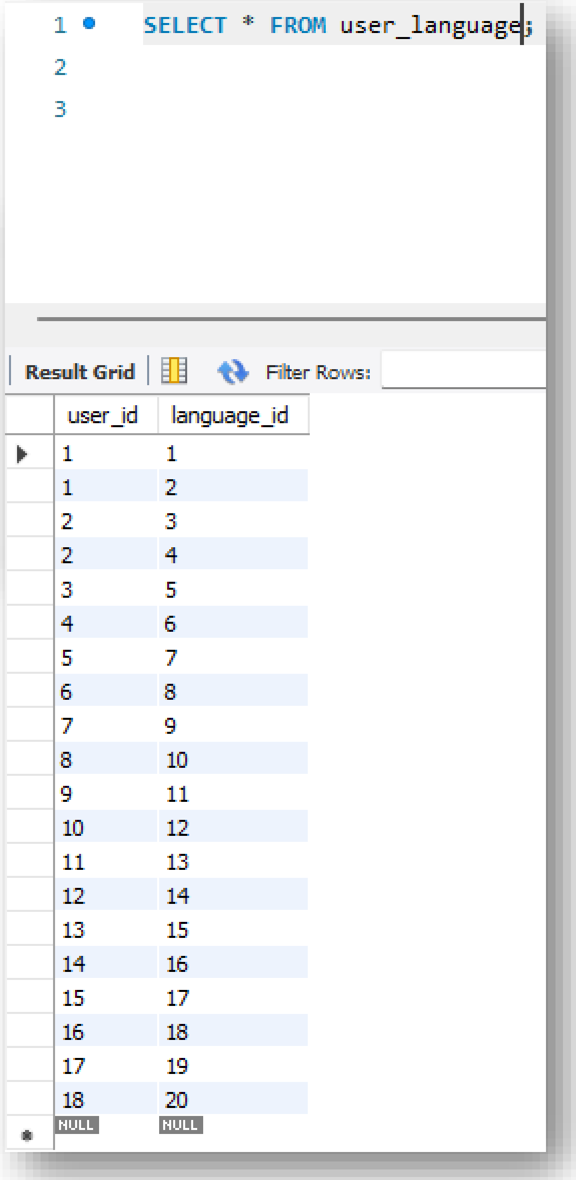
Create table



DDL for iu_project_header.user_language

```
CREATE TABLE `user_language` (
  `user_id` int unsigned NOT NULL,
  `language_id` int unsigned NOT NULL,
  PRIMARY KEY (`user_id`,`language_id`),
  KEY `language_id` (`language_id`),
  CONSTRAINT `user_language_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `user_language_ibfk_2` FOREIGN KEY (`language_id`) REFERENCES `language` (`language_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data



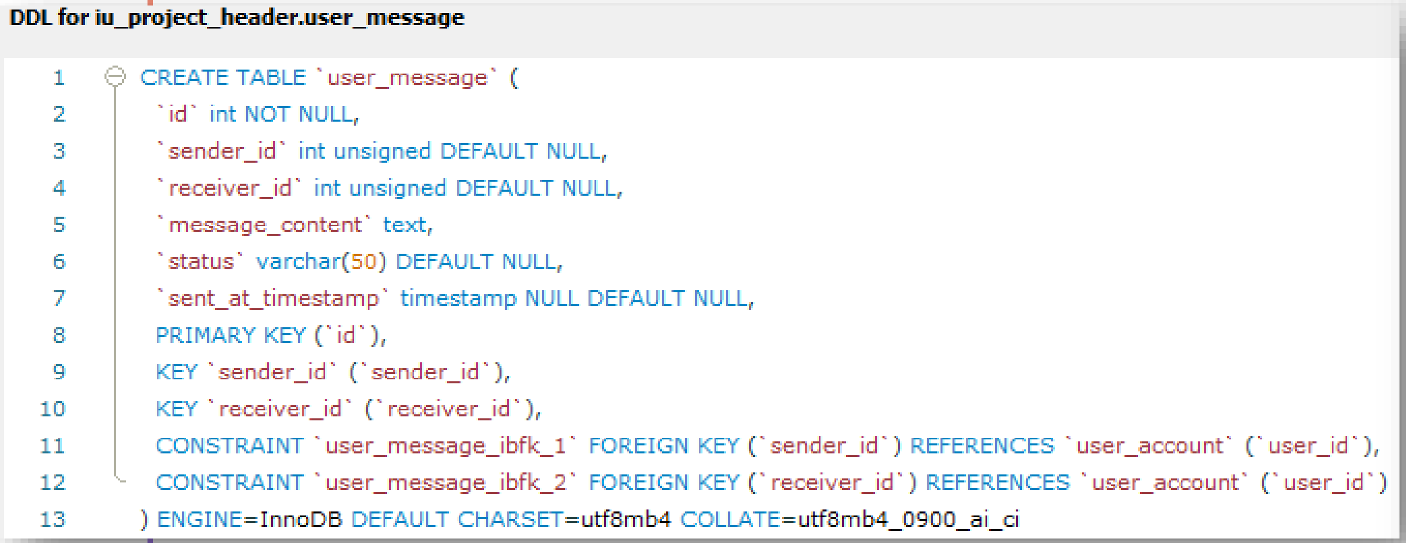
```
SELECT * FROM user_language;
```

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

Specific query example is in language slide

User Message Table

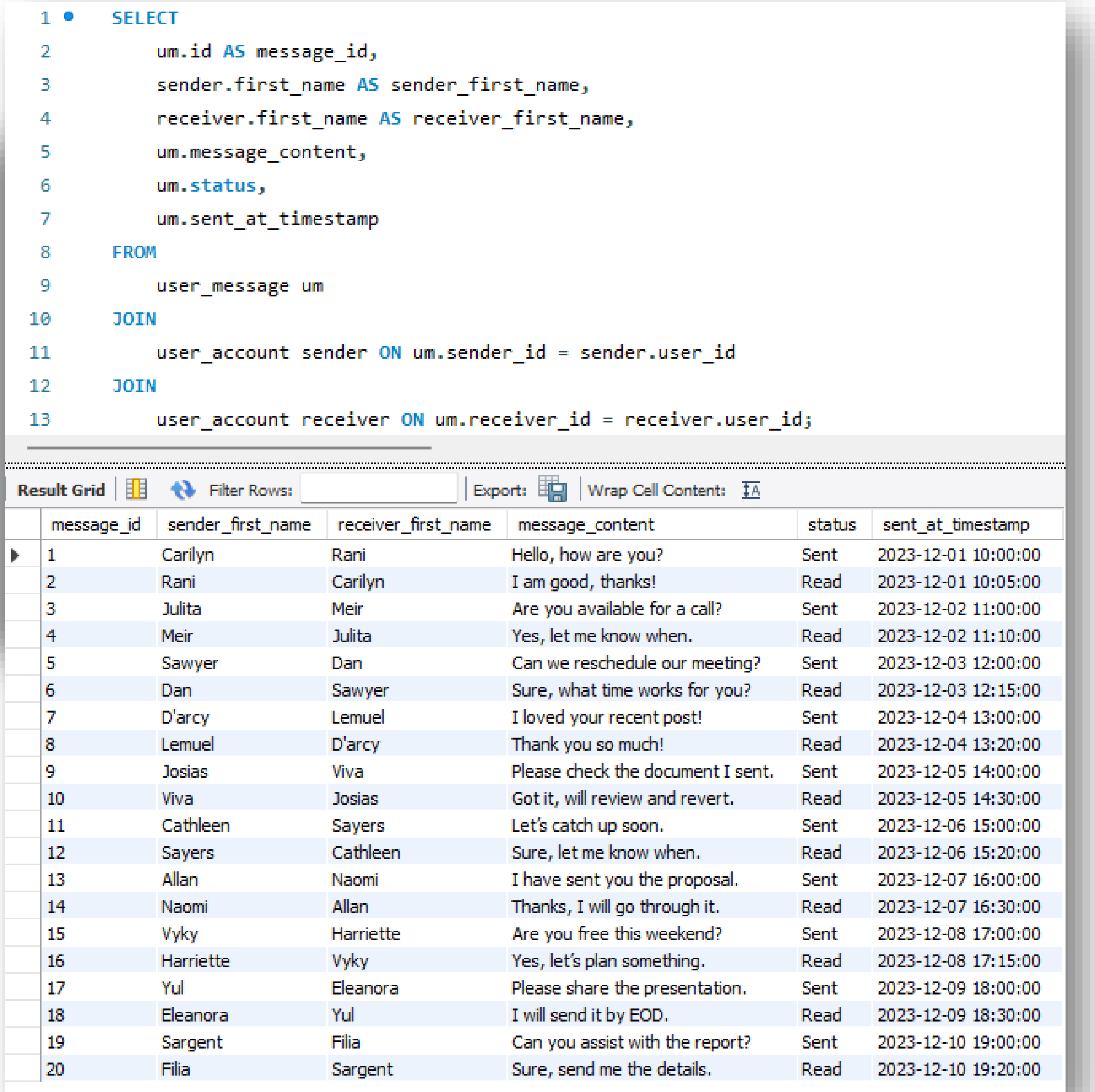
Create table



DDL for iu_project_header.user_message

```
CREATE TABLE `user_message` (
  `id` int NOT NULL,
  `sender_id` int unsigned DEFAULT NULL,
  `receiver_id` int unsigned DEFAULT NULL,
  `message_content` text,
  `status` varchar(50) DEFAULT NULL,
  `sent_at_timestamp` timestamp NULL DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `sender_id` (`sender_id`),
  KEY `receiver_id` (`receiver_id`),
  CONSTRAINT `user_message_ibfk_1` FOREIGN KEY (`sender_id`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `user_message_ibfk_2` FOREIGN KEY (`receiver_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data with the messages between the users and the content of the messages, as well as their status.

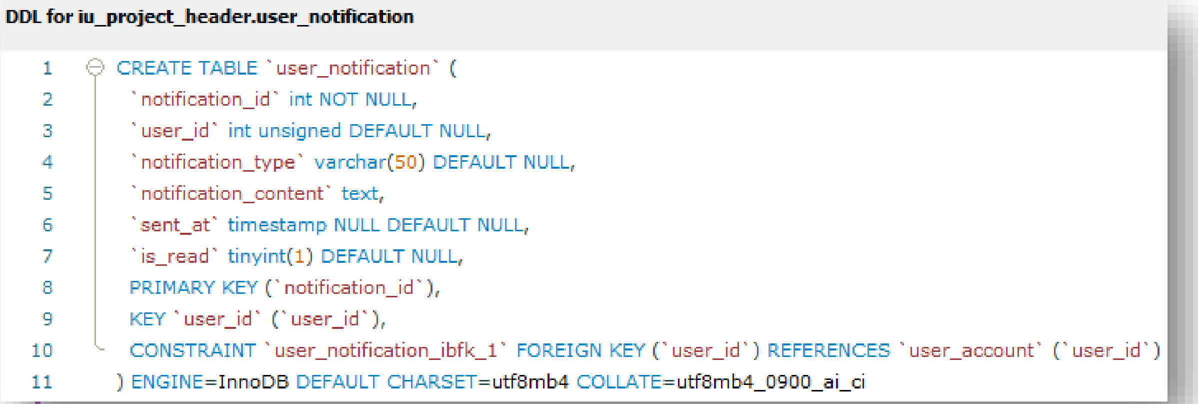


```
SELECT
    um.id AS message_id,
    sender.first_name AS sender_first_name,
    receiver.first_name AS receiver_first_name,
    um.message_content,
    um.status,
    um.sent_at_timestamp
FROM
    user_message um
JOIN
    user_account sender ON um.sender_id = sender.user_id
JOIN
    user_account receiver ON um.receiver_id = receiver.user_id;
```

message_id	sender_first_name	receiver_first_name	message_content	status	sent_at_timestamp
1	Carilyn	Rani	Hello, how are you?	Sent	2023-12-01 10:00:00
2	Rani	Carilyn	I am good, thanks!	Read	2023-12-01 10:05:00
3	Julita	Meir	Are you available for a call?	Sent	2023-12-02 11:00:00
4	Meir	Julita	Yes, let me know when.	Read	2023-12-02 11:10:00
5	Sawyer	Dan	Can we reschedule our meeting?	Sent	2023-12-03 12:00:00
6	Dan	Sawyer	Sure, what time works for you?	Read	2023-12-03 12:15:00
7	D'arcy	Lemuel	I loved your recent post!	Sent	2023-12-04 13:00:00
8	Lemuel	D'arcy	Thank you so much!	Read	2023-12-04 13:20:00
9	Josias	Viva	Please check the document I sent.	Sent	2023-12-05 14:00:00
10	Viva	Josias	Got it, will review and revert.	Read	2023-12-05 14:30:00
11	Cathleen	Sayers	Let's catch up soon.	Sent	2023-12-06 15:00:00
12	Sayers	Cathleen	Sure, let me know when.	Read	2023-12-06 15:20:00
13	Allan	Naomi	I have sent you the proposal.	Sent	2023-12-07 16:00:00
14	Naomi	Allan	Thanks, I will go through it.	Read	2023-12-07 16:30:00
15	Vyky	Harriette	Are you free this weekend?	Sent	2023-12-08 17:00:00
16	Harriette	Vyky	Yes, let's plan something.	Read	2023-12-08 17:15:00
17	Yul	Eleanora	Please share the presentation.	Sent	2023-12-09 18:00:00
18	Eleanora	Yul	I will send it by EOD.	Read	2023-12-09 18:30:00
19	Sargent	Filia	Can you assist with the report?	Sent	2023-12-10 19:00:00
20	Filia	Sargent	Sure, send me the details.	Read	2023-12-10 19:20:00

User Notification Table

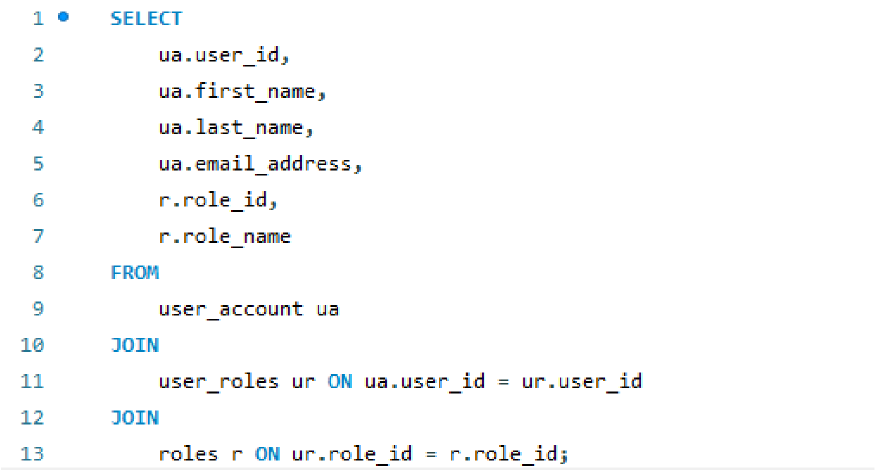
Create table



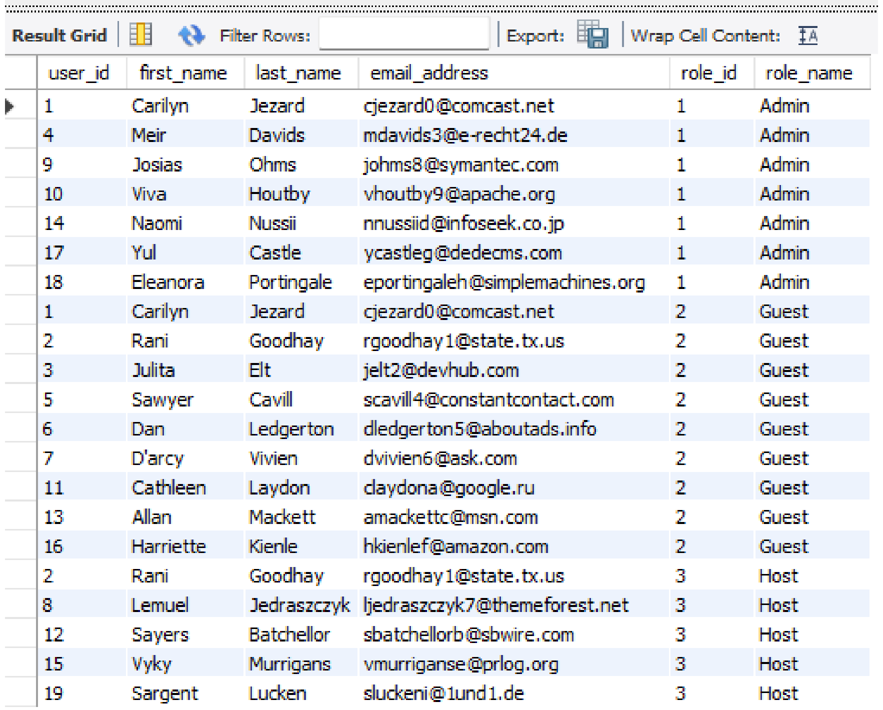
DDL for iu_project_header.user_notification

```sql
CREATE TABLE `user_notification` (
  `notification_id` int NOT NULL,
  `user_id` int unsigned DEFAULT NULL,
  `notification_type` varchar(50) DEFAULT NULL,
  `notification_content` text,
  `sent_at` timestamp NULL DEFAULT NULL,
  `is_read` tinyint(1) DEFAULT NULL,
  PRIMARY KEY (`notification_id`),
  KEY `user_id` (`user_id`),
  CONSTRAINT `user_notification_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data from user notification and user_data, containing information from both



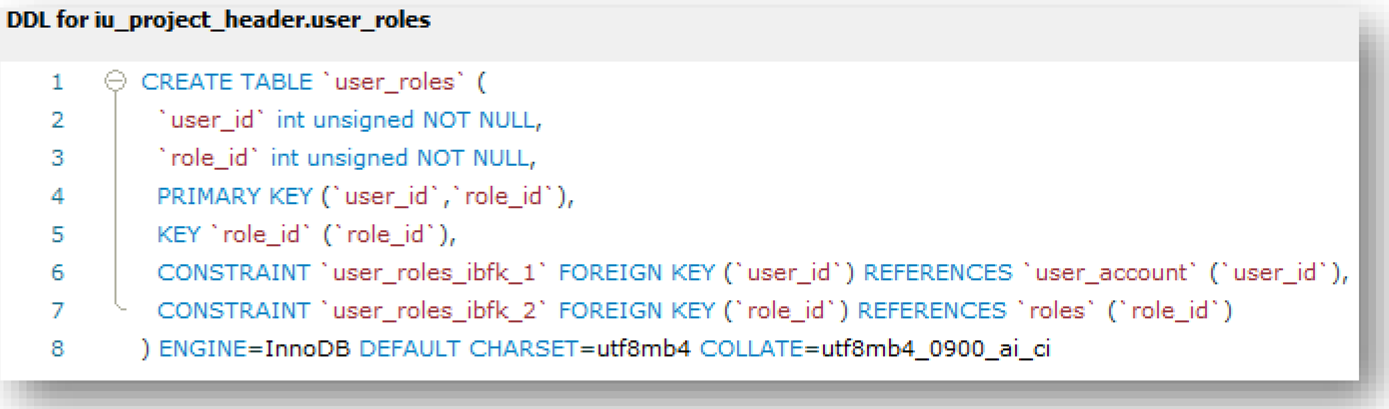
```sql
SELECT
    ua.user_id,
    ua.first_name,
    ua.last_name,
    ua.email_address,
    r.role_id,
    r.role_name
FROM
    user_account ua
JOIN
    user_roles ur ON ua.user_id = ur.user_id
JOIN
    roles r ON ur.role_id = r.role_id;
```



user_id	first_name	last_name	email_address	role_id	role_name
1	Carilyn	Jezard	cjezard0@comcast.net	1	Admin
4	Meir	Davids	mdavids3@e-recht24.de	1	Admin
9	Josias	Ohms	johms8@symantec.com	1	Admin
10	Viva	Houtby	vhoutby9@apache.org	1	Admin
14	Naomi	Nussii	nnussiid@infoseek.co.jp	1	Admin
17	Yul	Castle	ycastleg@dedecms.com	1	Admin
18	Eleanora	Portingale	eportingaleh@simplemachines.org	1	Admin
1	Carilyn	Jezard	cjezard0@comcast.net	2	Guest
2	Rani	Goodhay	rgoodhay1@state.tx.us	2	Guest
3	Julita	Elt	jelt2@devhub.com	2	Guest
5	Sawyer	Cavill	scavill4@constantcontact.com	2	Guest
6	Dan	Ledgerton	dledgerton5@aboutads.info	2	Guest
7	D'arcy	Vivien	dvivien6@ask.com	2	Guest
11	Cathleen	Laydon	claydona@google.ru	2	Guest
13	Allan	Mackett	amackettc@msn.com	2	Guest
16	Harriette	Kienle	hkienlef@amazon.com	2	Guest
2	Rani	Goodhay	rgoodhay1@state.tx.us	3	Host
8	Lemuel	Jedraszczyk	ljedraszczyk7@themeforest.net	3	Host
12	Sayers	Batchellor	sbatchellorb@sbwire.com	3	Host
15	Vyky	Murrigans	vmurriganse@prlog.org	3	Host
19	Sargent	Lucken	sluckeni@1und1.de	3	Host

User Roles Table

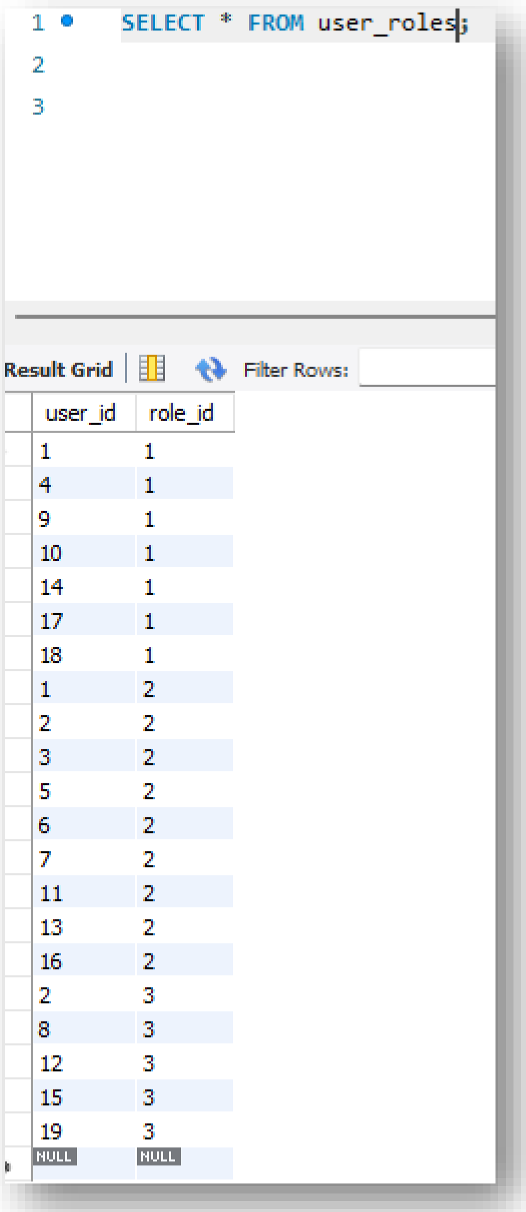
Create table



DDL for iu_project_header.user_roles

```
CREATE TABLE `user_roles` (
  `user_id` int unsigned NOT NULL,
  `role_id` int unsigned NOT NULL,
  PRIMARY KEY (`user_id`,`role_id`),
  KEY `role_id` (`role_id`),
  CONSTRAINT `user_roles_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `user_account` (`user_id`),
  CONSTRAINT `user_roles_ibfk_2` FOREIGN KEY (`role_id`) REFERENCES `roles` (`role_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Query showing data



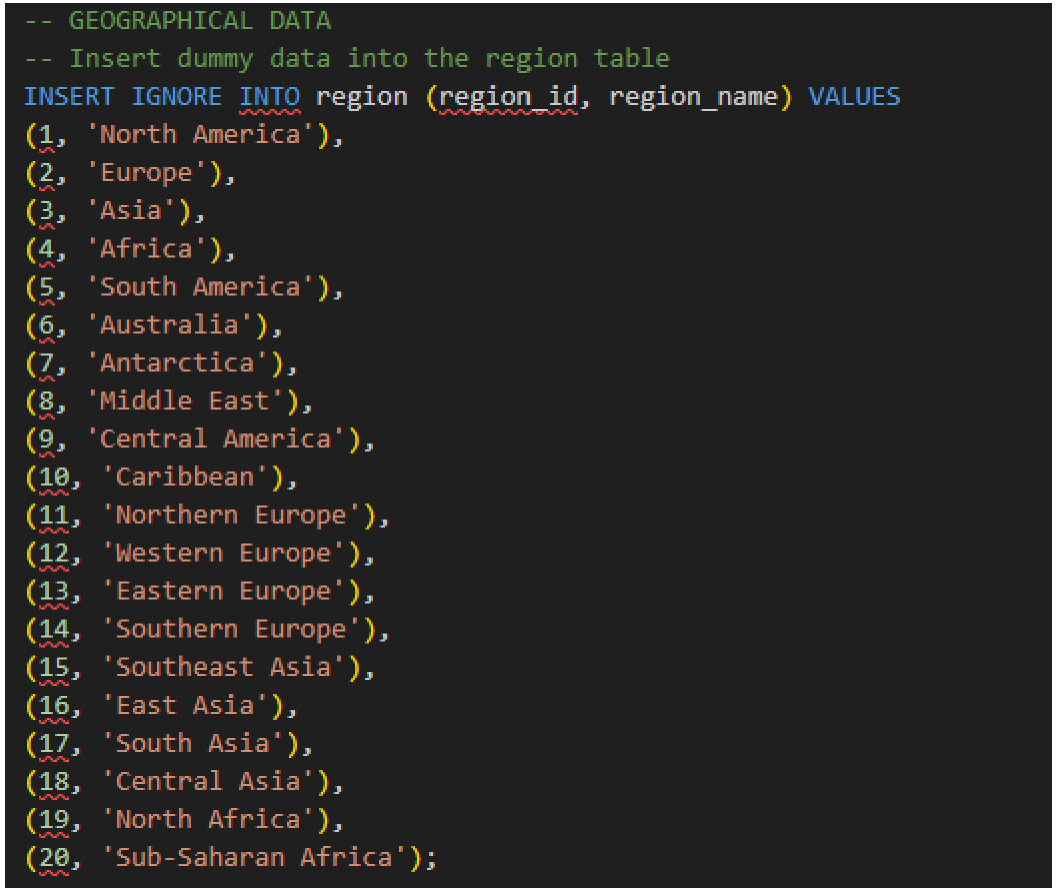
```
SELECT * FROM user_roles;
```

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

Example of a query can be found in roles table

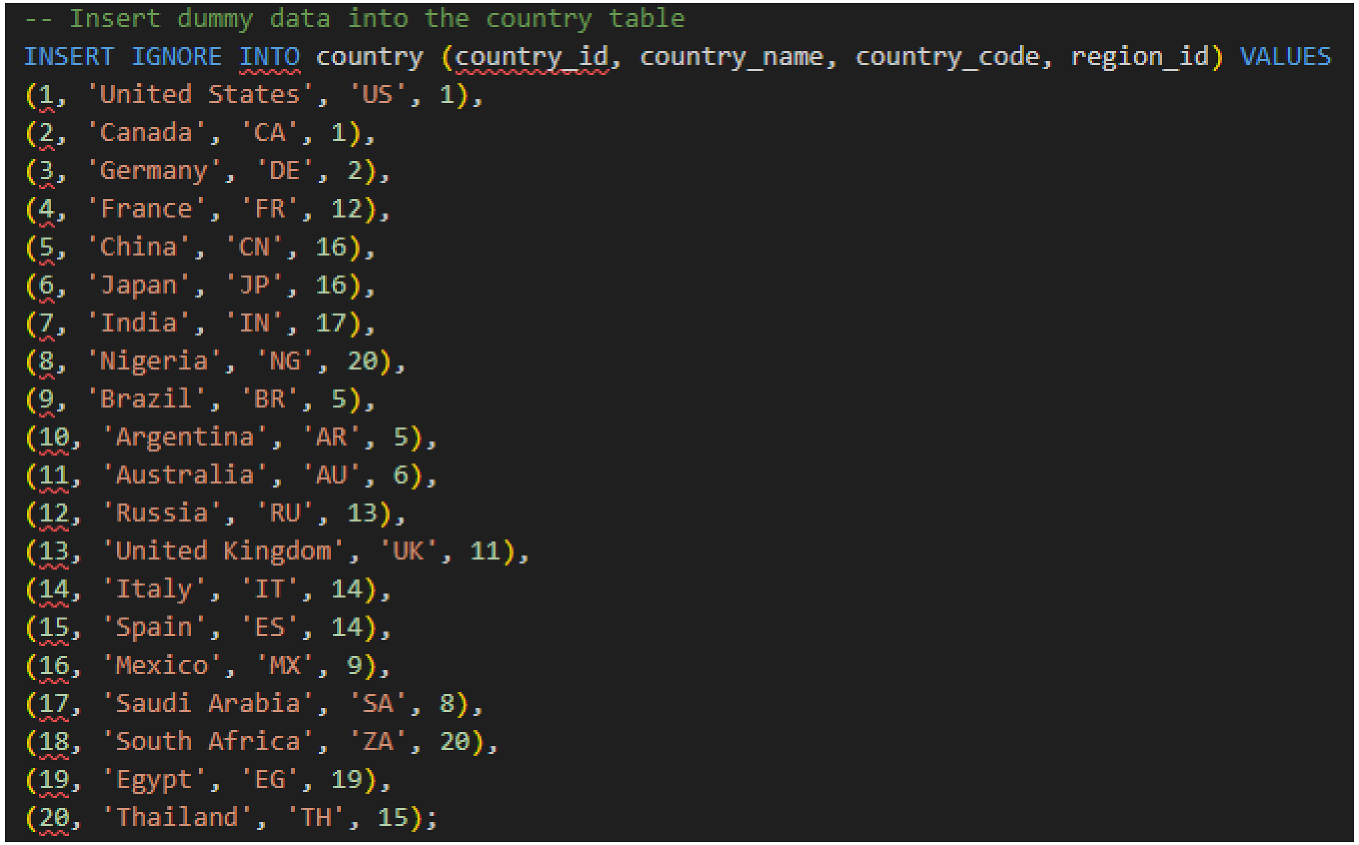
SQL scripts: Insert statements
(in the order needed to be inserted)

Dummy data for the region table



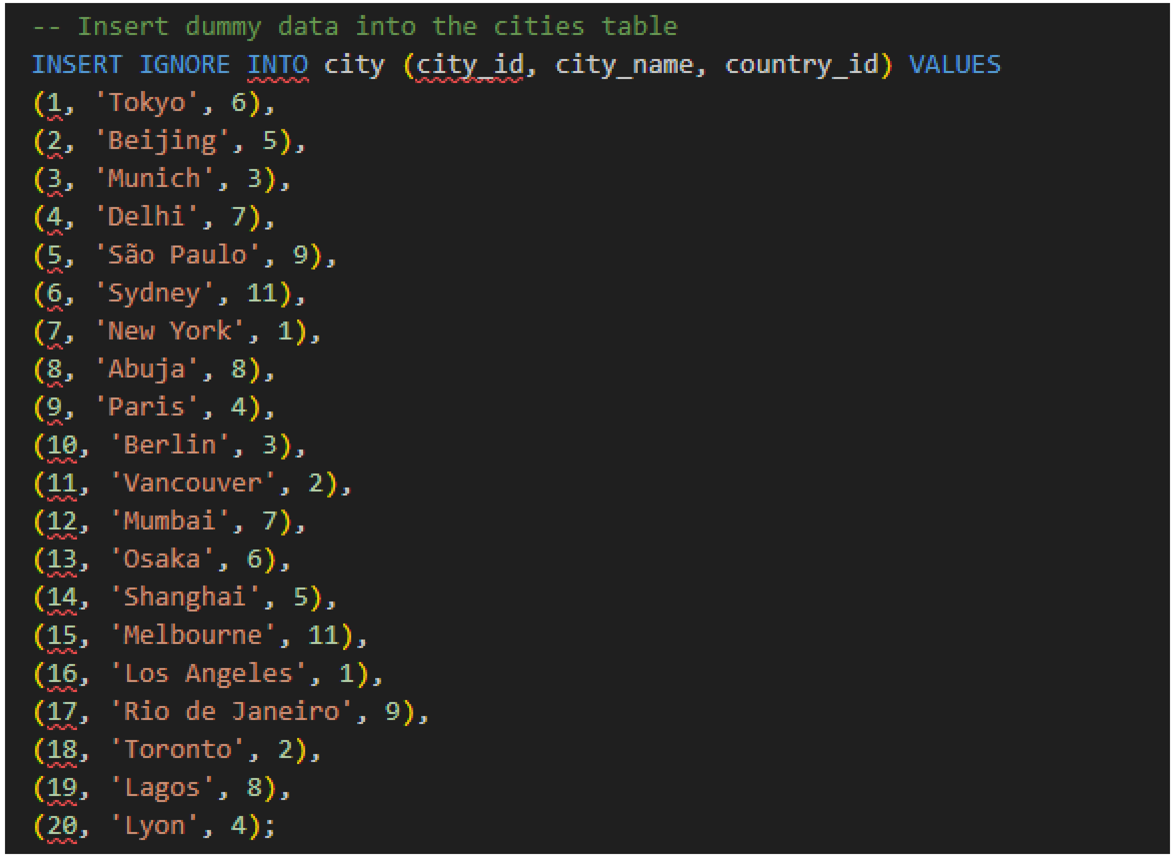
```
-- GEOGRAPHICAL DATA
-- Insert dummy data into the region table
INSERT IGNORE INTO region (region_id, region_name) VALUES
(1, 'North America'),
(2, 'Europe'),
(3, 'Asia'),
(4, 'Africa'),
(5, 'South America'),
(6, 'Australia'),
(7, 'Antarctica'),
(8, 'Middle East'),
(9, 'Central America'),
(10, 'Caribbean'),
(11, 'Northern Europe'),
(12, 'Western Europe'),
(13, 'Eastern Europe'),
(14, 'Southern Europe'),
(15, 'Southeast Asia'),
(16, 'East Asia'),
(17, 'South Asia'),
(18, 'Central Asia'),
(19, 'North Africa'),
(20, 'Sub-Saharan Africa');
```

Dummy data for the country table



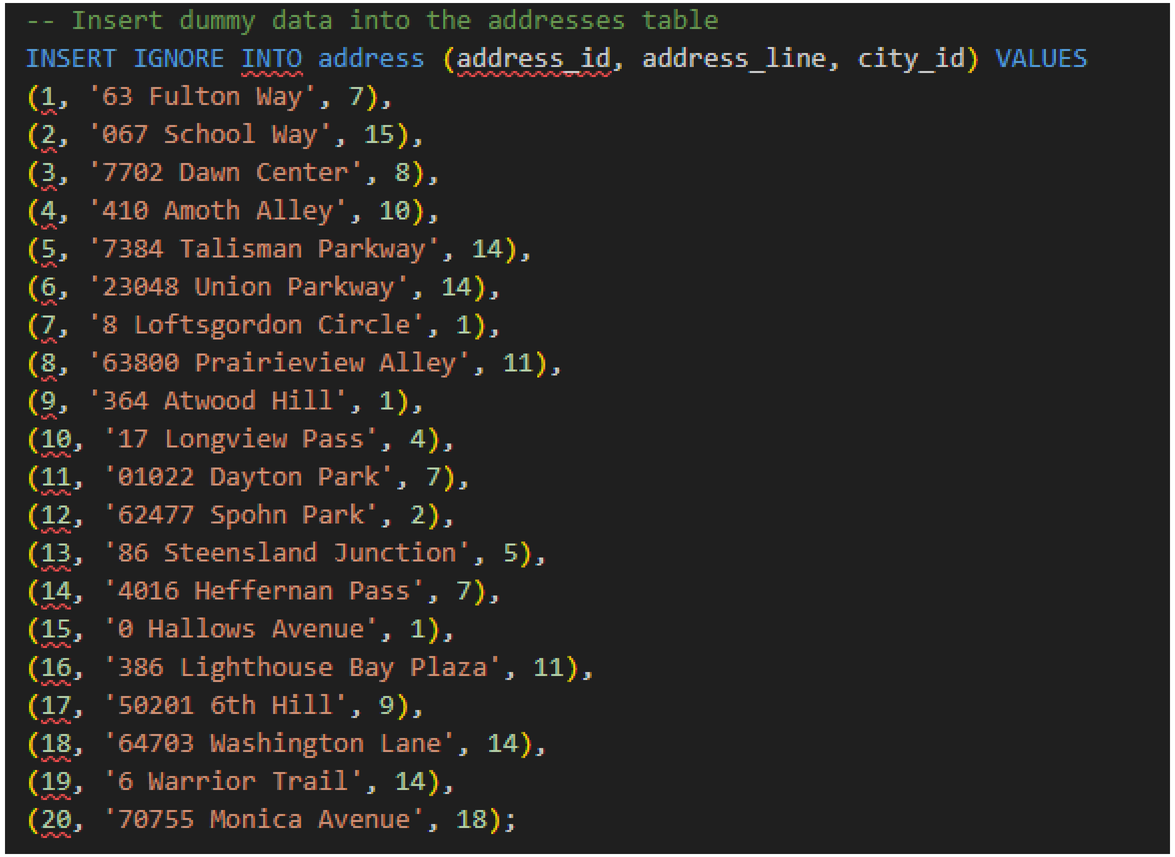
```
-- Insert dummy data into the country table
INSERT IGNORE INTO country (country_id, country_name, country_code, region_id) VALUES
(1, 'United States', 'US', 1),
(2, 'Canada', 'CA', 1),
(3, 'Germany', 'DE', 2),
(4, 'France', 'FR', 12),
(5, 'China', 'CN', 16),
(6, 'Japan', 'JP', 16),
(7, 'India', 'IN', 17),
(8, 'Nigeria', 'NG', 20),
(9, 'Brazil', 'BR', 5),
(10, 'Argentina', 'AR', 5),
(11, 'Australia', 'AU', 6),
(12, 'Russia', 'RU', 13),
(13, 'United Kingdom', 'UK', 11),
(14, 'Italy', 'IT', 14),
(15, 'Spain', 'ES', 14),
(16, 'Mexico', 'MX', 9),
(17, 'Saudi Arabia', 'SA', 8),
(18, 'South Africa', 'ZA', 20),
(19, 'Egypt', 'EG', 19),
(20, 'Thailand', 'TH', 15);
```

Dummy data for the city table



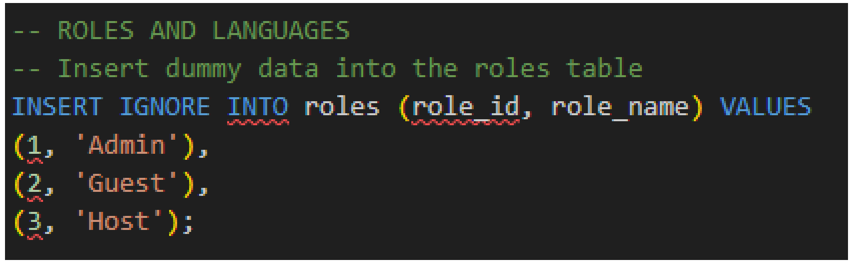
```sql
-- Insert dummy data into the cities table
INSERT IGNORE INTO city (city_id, city_name, country_id) VALUES
(1, 'Tokyo', 6),
(2, 'Beijing', 5),
(3, 'Munich', 3),
(4, 'Delhi', 7),
(5, 'São Paulo', 9),
(6, 'Sydney', 11),
(7, 'New York', 1),
(8, 'Abuja', 8),
(9, 'Paris', 4),
(10, 'Berlin', 3),
(11, 'Vancouver', 2),
(12, 'Mumbai', 7),
(13, 'Osaka', 6),
(14, 'Shanghai', 5),
(15, 'Melbourne', 11),
(16, 'Los Angeles', 1),
(17, 'Rio de Janeiro', 9),
(18, 'Toronto', 2),
(19, 'Lagos', 8),
(20, 'Lyon', 4);
```

Dummy data for the address table



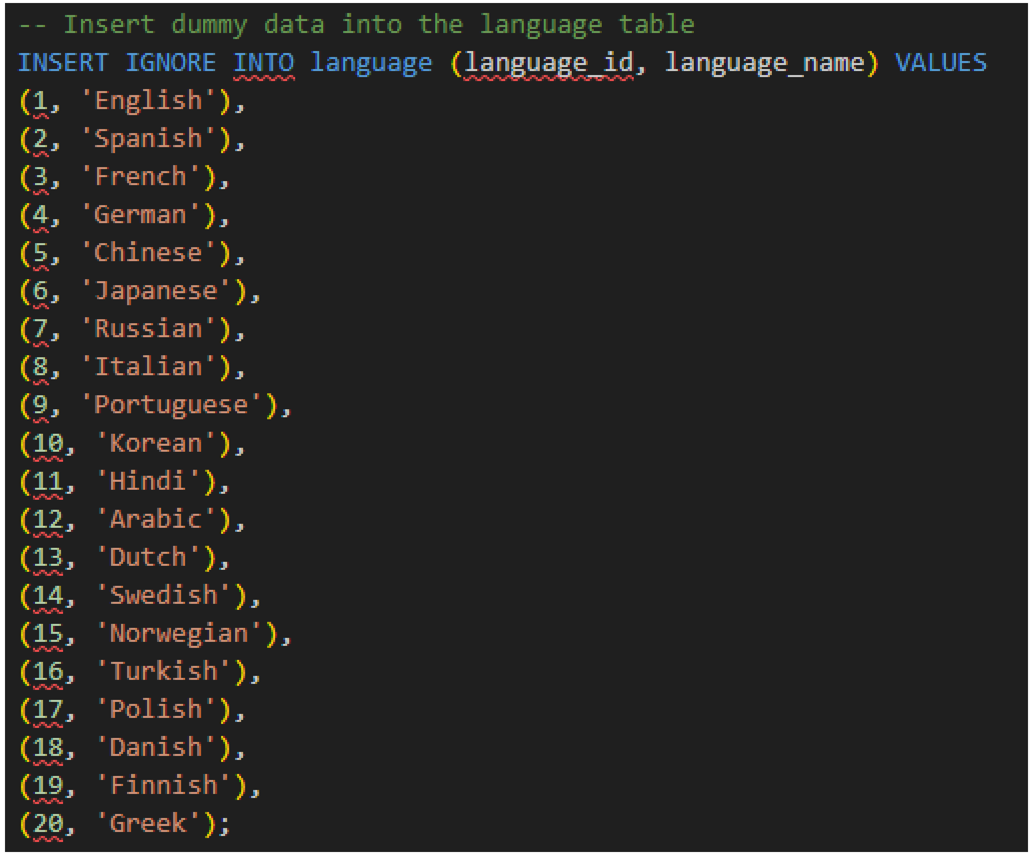
```sql
-- Insert dummy data into the addresses table
INSERT IGNORE INTO address (address_id, address_line, city_id) VALUES
(1, '63 Fulton Way', 7),
(2, '067 School Way', 15),
(3, '7702 Dawn Center', 8),
(4, '410 Amoth Alley', 10),
(5, '7384 Talisman Parkway', 14),
(6, '23048 Union Parkway', 14),
(7, '8 Loftsgordon Circle', 1),
(8, '63800 Prairieview Alley', 11),
(9, '364 Atwood Hill', 1),
(10, '17 Longview Pass', 4),
(11, '01022 Dayton Park', 7),
(12, '62477 Spohn Park', 2),
(13, '86 Steensland Junction', 5),
(14, '4016 Heffernan Pass', 7),
(15, '0 Hallows Avenue', 1),
(16, '386 Lighthouse Bay Plaza', 11),
(17, '50201 6th Hill', 9),
(18, '64703 Washington Lane', 14),
(19, '6 Warrior Trail', 14),
(20, '70755 Monica Avenue', 18);
```

Dummy data for the roles table



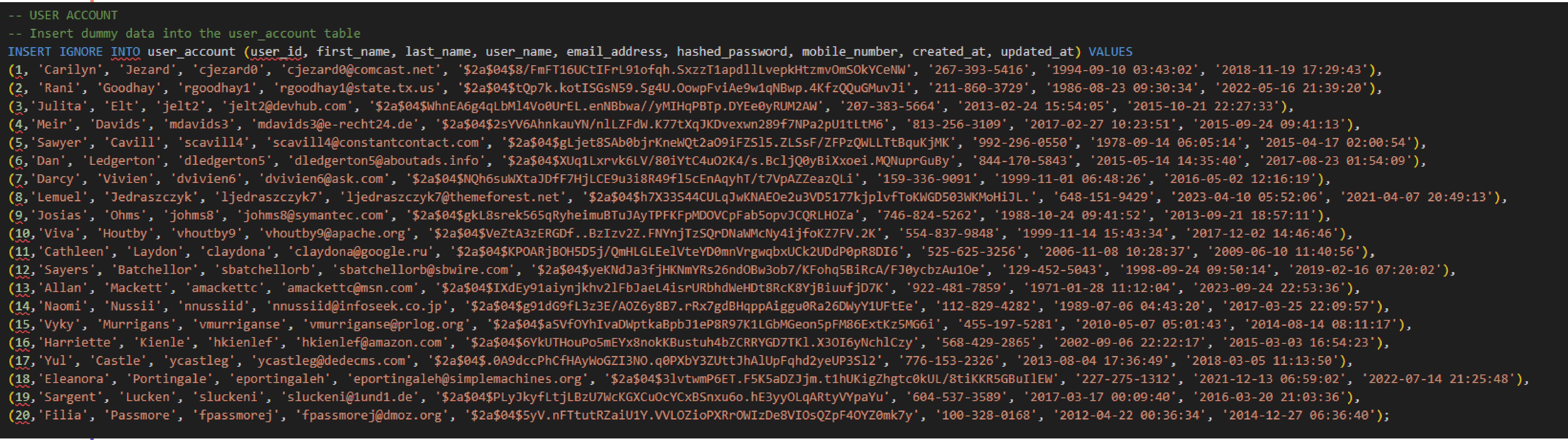
```
-- ROLES AND LANGUAGES
-- Insert dummy data into the roles table
INSERT IGNORE INTO roles (role_id, role_name) VALUES
(1, 'Admin'),
(2, 'Guest'),
(3, 'Host');
```

Dummy data for the language table



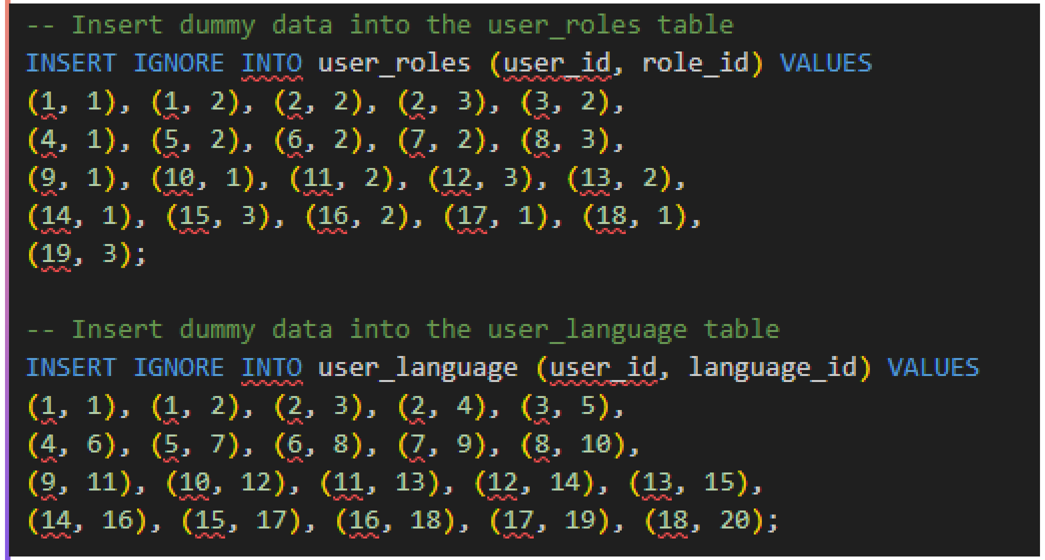
```
-- Insert dummy data into the language table
INSERT IGNORE INTO language (language_id, language_name) VALUES
(1, 'English'),
(2, 'Spanish'),
(3, 'French'),
(4, 'German'),
(5, 'Chinese'),
(6, 'Japanese'),
(7, 'Russian'),
(8, 'Italian'),
(9, 'Portuguese'),
(10, 'Korean'),
(11, 'Hindi'),
(12, 'Arabic'),
(13, 'Dutch'),
(14, 'Swedish'),
(15, 'Norwegian'),
(16, 'Turkish'),
(17, 'Polish'),
(18, 'Danish'),
(19, 'Finnish'),
(20, 'Greek');
```

Dummy data for the user_account table



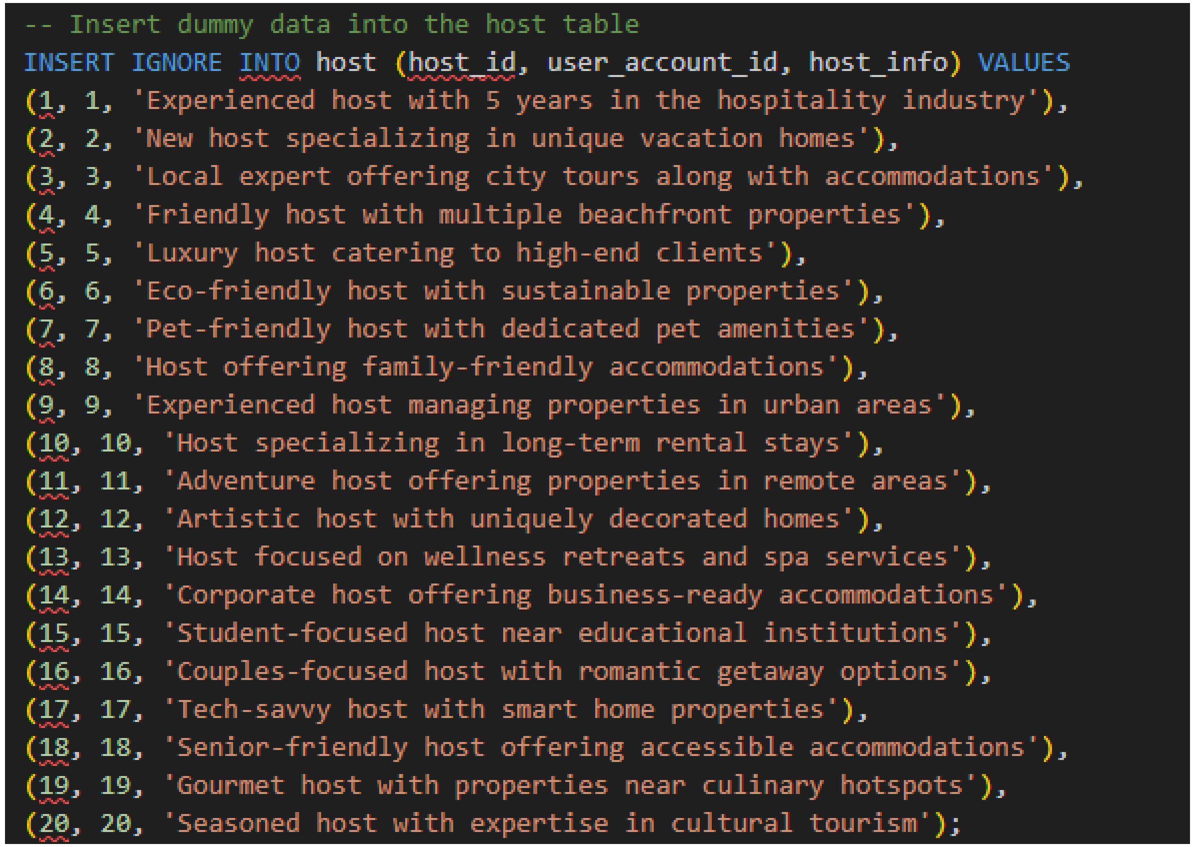
```sql
-- USER ACCOUNT
-- Insert dummy data into the user_account table
INSERT IGNORE INTO user_account (user_id, first_name, last_name, user_name, email_address, hashed_password, mobile_number, created_at, updated_at) VALUES
(1, 'Carilyn', 'Jezard', 'cjezard0', 'cjezard0@comcast.net', '$2a$04$8/FmFT16UCtIFrL91ofqh.SxzzT1apdllLvepkHtzmvOmSOkYCeNW', '267-393-5416', '1994-09-10 03:43:02', '2018-11-19 17:29:43'),
(2, 'Rani', 'Goodhay', 'rgoodhay1', 'rgoodhay1@state.tx.us', '$2a$04$tQp7k.kotISGsN59.Sg4U.OowpFviAe9w1qNBwp.4KfzQQuGMuvJi', '211-860-3729', '1986-08-23 09:30:34', '2022-05-16 21:39:20'),
(3,'Julita', 'Elt', 'jelt2', 'jelt2@devhub.com', '$2a$04$WhnEA6g4qLbMl4Vo0UrEL.enNBbwa//yMIHqPBTp.DYEe0yRUM2AW', '207-383-5664', '2013-02-24 15:54:05', '2015-10-21 22:27:33'),
(4,'Meir', 'Davids', 'mdavids3', 'mdavids3@e-recht24.de', '$2a$04$2sYV6AhnkauYN/nlLZFdW.K77tXqJKDvexwn289f7NPa2pU1tLtM6', '813-256-3109', '2017-02-27 10:23:51', '2015-09-24 09:41:13'),
(5,'Sawyer', 'Cavill', 'scavill4', 'scavill4@constantcontact.com', '$2a$04$gLjet8SAb0bjrKneWQt2aO9iFZSl5.ZLSsF/ZFPzQWLLTtBquKjMK', '992-296-0550', '1978-09-14 06:05:14', '2015-04-17 02:00:54'),
(6,'Dan', 'Ledgerton', 'dledgerton5', 'dledgerton5@aboutads.info', '$2a$04$XUq1Lxrvk6LV/80iYtC4uO2K4/s.BcljQ0yBiXxoei.MQNuprGuBy', '844-170-5843', '2015-05-14 14:35:40', '2017-08-23 01:54:09'),
(7,'Darcy', 'Vivien', 'dvivien6', 'dvivien6@ask.com', '$2a$04$NQh6suWXtaJDfF7HjLCE9u3i8R49fl5cEnAqyhT/t7VpAZZeazQLi', '159-336-9091', '1999-11-01 06:48:26', '2016-05-02 12:16:19'),
(8,'Lemuel', 'Jedraszczyk', 'ljedraszczyk7', 'ljedraszczyk7@themeforest.net', '$2a$04$h7X33S44CULqJwKNAEOe2u3VD5177kjplvfToKWGD503WKMoHiJL.', '648-151-9429', '2023-04-10 05:52:06', '2021-04-07 20:49:13'),
(9,'Josias', 'Ohms', 'johms8', 'johms8@symantec.com', '$2a$04$gkL8srek565qRyheimuBTuJAyTPFKFpMDOVCpFab5opvJCQRLHOZa', '746-824-5262', '1988-10-24 09:41:52', '2013-09-21 18:57:11'),
(10,'Viva', 'Houtby', 'vhoutby9', 'vhoutby9@apache.org', '$2a$04$VeZtA3zERGDf..BzIzv2Z.FNYnjTzSQrDNaWMcNy4ijfoKZ7FV.2K', '554-837-9848', '1999-11-14 15:43:34', '2017-12-02 14:46:46'),
(11,'Cathleen', 'Laydon', 'claydona', 'claydona@google.ru', '$2a$04$KPOARjBOH5D5j/QmHLGLEelVteYD0mnVrgwqbxUCk2UDdP0pR8DI6', '525-625-3256', '2006-11-08 10:28:37', '2009-06-10 11:40:56'),
(12,'Sayers', 'Batchellor', 'sbatchellorb', 'sbatchellorb@sbwire.com', '$2a$04$yeKNdJa3fjHKNmYRs26ndOBw3ob7/KFohq5BiRcA/FJ0ycbzAu1Oe', '129-452-5043', '1998-09-24 09:50:14', '2019-02-16 07:20:02'),
(13,'Allan', 'Mackett', 'amackettc', 'amackettc@msn.com', '$2a$04$IXdEy91aiynjkhv2lFbJaeL4isrURbhdWeHDt8RcK8YjBiuufjD7K', '922-481-7859', '1971-01-28 11:12:04', '2023-09-24 22:53:36'),
(14,'Naomi', 'Nussii', 'nnussiid', 'nnussiid@infoseek.co.jp', '$2a$04$g91dG9fL3z3E/AOZ6y8B7.rRx7gdBHqppAiggu0Ra26DWyY1UFtEe', '112-829-4282', '1989-07-06 04:43:20', '2017-03-25 22:09:57'),
(15,'Vyky', 'Murrigans', 'vmurriganse', 'vmurriganse@prlog.org', '$2a$04$aSVfOYhIvaDWptkaBpbJ1eP8R97K1LGbMGeon5pFM86ExtKz5MG6i', '455-197-5281', '2010-05-07 05:01:43', '2014-08-14 08:11:17'),
(16,'Harriette', 'Kienle', 'hkienlef', 'hkienlef@amazon.com', '$2a$04$6YkUTHouPo5mEYx8nokKBustuh4bZCRRYGD7TKl.X3OI6yNchlCzy', '568-429-2865', '2002-09-06 22:22:17', '2015-03-03 16:54:23'),
(17,'Yul', 'Castle', 'ycastleg', 'ycastleg@dedecms.com', '$2a$04$.0A9dccPhCfHAyWoGZI3NO.q0PXbY3ZUttJhAlUpFqhd2yeUP3Sl2', '776-153-2326', '2013-08-04 17:36:49', '2018-03-05 11:13:50'),
(18,'Eleanora', 'Portingale', 'eportingaleh', 'eportingaleh@simplemachines.org', '$2a$04$3lvtwmP6ET.F5K5aDZJjm.t1hUKigZhgtc0kUL/8tiKKR5GBuIlEW', '227-275-1312', '2021-12-13 06:59:02', '2022-07-14 21:25:48'),
(19,'Sargent', 'Lucken', 'sluckeni', 'sluckeni@1und1.de', '$2a$04$PLyJkyfLtjLBzU7WcKGXCuOcYCxBSnxu6o.hE3yyOLqARtyVYpaYu', '604-537-3589', '2017-03-17 00:09:40', '2016-03-20 21:03:36'),
(20,'Filia', 'Passmore', 'fpassmorej', 'fpassmorej@dmoz.org', '$2a$04$5yV.nFTtutRZaiU1Y.VVLOZioPXRrOWIzDe8VIOsQZpF4OYZ0mk7y', '100-328-0168', '2012-04-22 00:36:34', '2014-12-27 06:36:40');
```

Dummy data for the user_roles and user_language tables



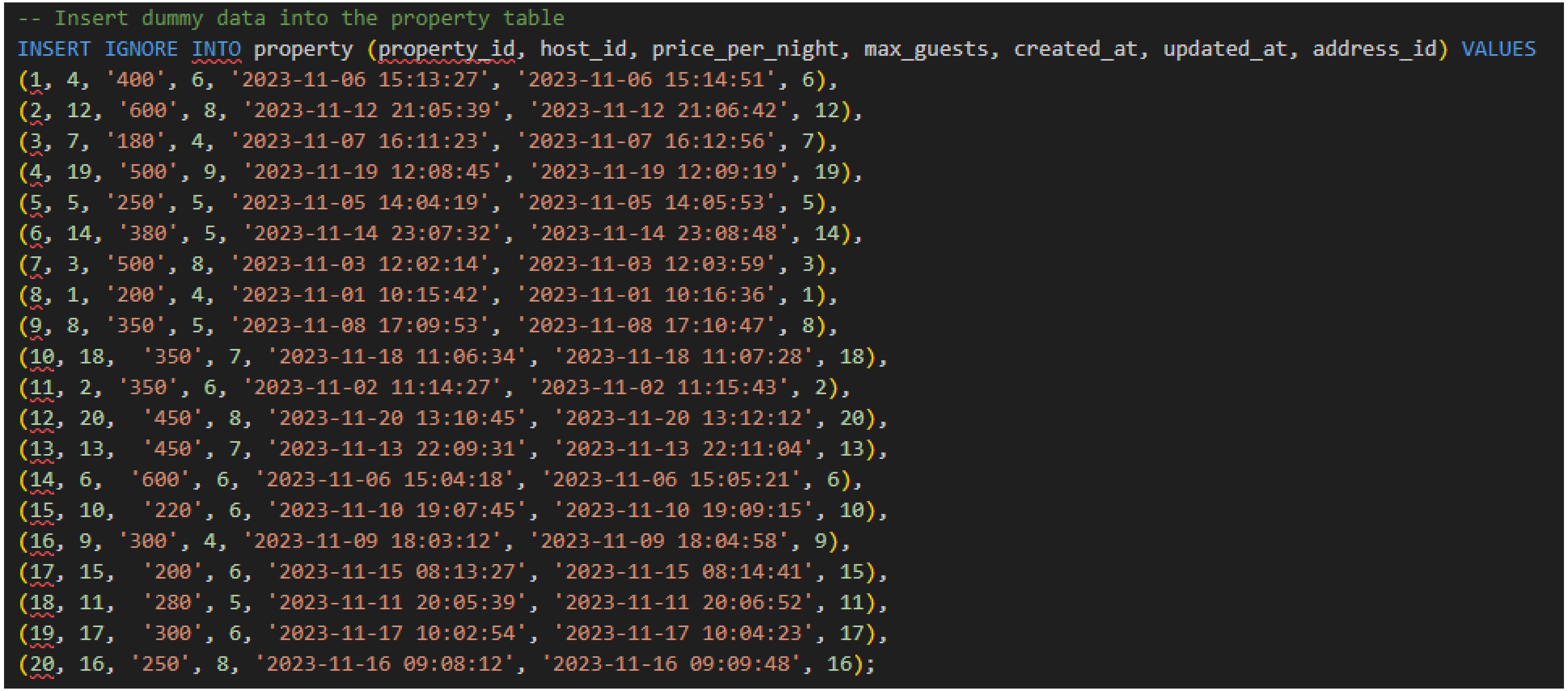
```
-- Insert dummy data into the user_roles table
INSERT IGNORE INTO user_roles (user_id, role_id) VALUES
(1, 1), (1, 2), (2, 2), (2, 3), (3, 2),
(4, 1), (5, 2), (6, 2), (7, 2), (8, 3),
(9, 1), (10, 1), (11, 2), (12, 3), (13, 2),
(14, 1), (15, 3), (16, 2), (17, 1), (18, 1),
(19, 3);

-- Insert dummy data into the user_language table
INSERT IGNORE INTO user_language (user_id, language_id) VALUES
(1, 1), (1, 2), (2, 3), (2, 4), (3, 5),
(4, 6), (5, 7), (6, 8), (7, 9), (8, 10),
(9, 11), (10, 12), (11, 13), (12, 14), (13, 15),
(14, 16), (15, 17), (16, 18), (17, 19), (18, 20);
```

Dummy data for the host table



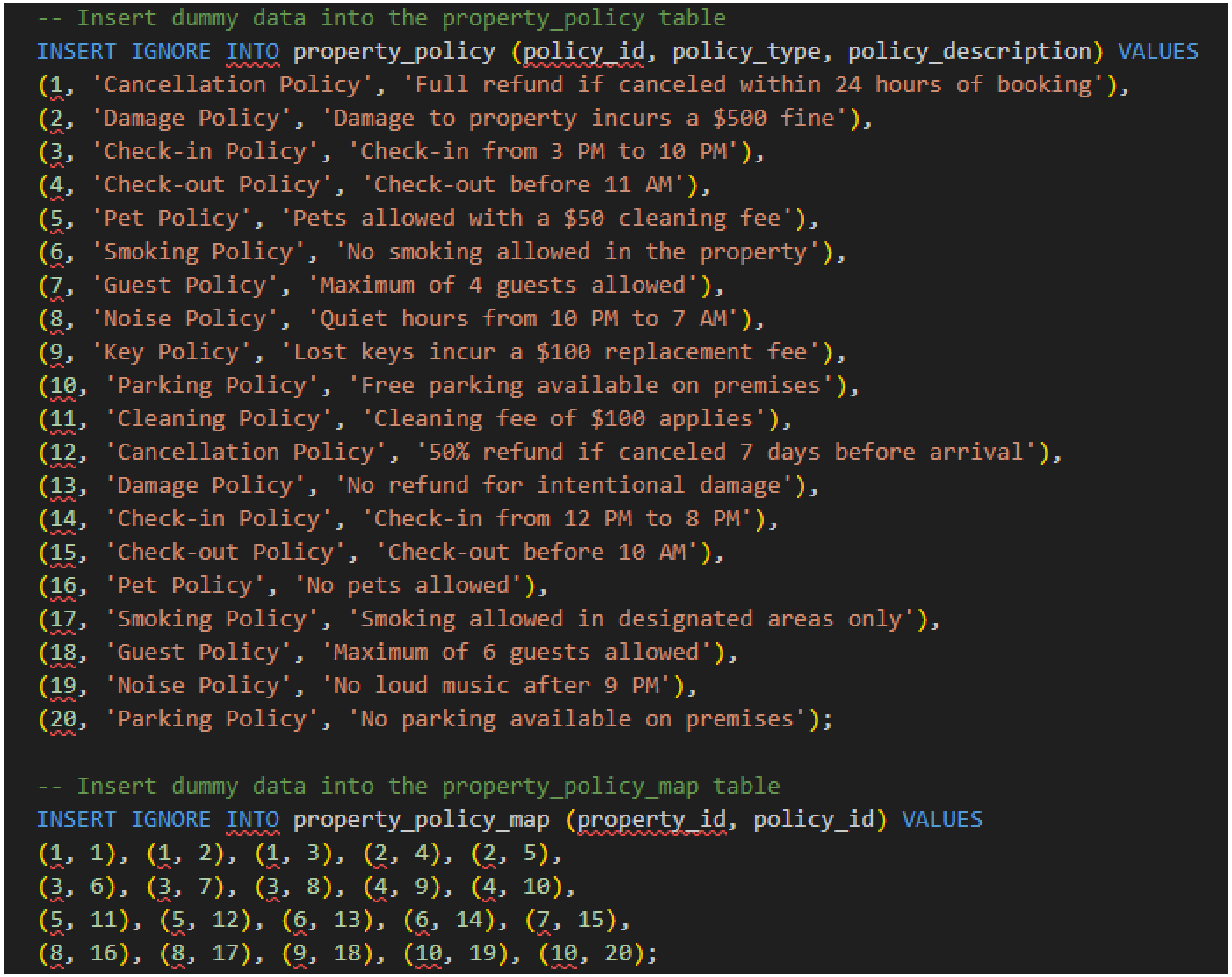
```sql
-- Insert dummy data into the host table
INSERT IGNORE INTO host (host_id, user_account_id, host_info) VALUES
(1, 1, 'Experienced host with 5 years in the hospitality industry'),
(2, 2, 'New host specializing in unique vacation homes'),
(3, 3, 'Local expert offering city tours along with accommodations'),
(4, 4, 'Friendly host with multiple beachfront properties'),
(5, 5, 'Luxury host catering to high-end clients'),
(6, 6, 'Eco-friendly host with sustainable properties'),
(7, 7, 'Pet-friendly host with dedicated pet amenities'),
(8, 8, 'Host offering family-friendly accommodations'),
(9, 9, 'Experienced host managing properties in urban areas'),
(10, 10, 'Host specializing in long-term rental stays'),
(11, 11, 'Adventure host offering properties in remote areas'),
(12, 12, 'Artistic host with uniquely decorated homes'),
(13, 13, 'Host focused on wellness retreats and spa services'),
(14, 14, 'Corporate host offering business-ready accommodations'),
(15, 15, 'Student-focused host near educational institutions'),
(16, 16, 'Couples-focused host with romantic getaway options'),
(17, 17, 'Tech-savvy host with smart home properties'),
(18, 18, 'Senior-friendly host offering accessible accommodations'),
(19, 19, 'Gourmet host with properties near culinary hotspots'),
(20, 20, 'Seasoned host with expertise in cultural tourism');
```

Dummy data for the property table



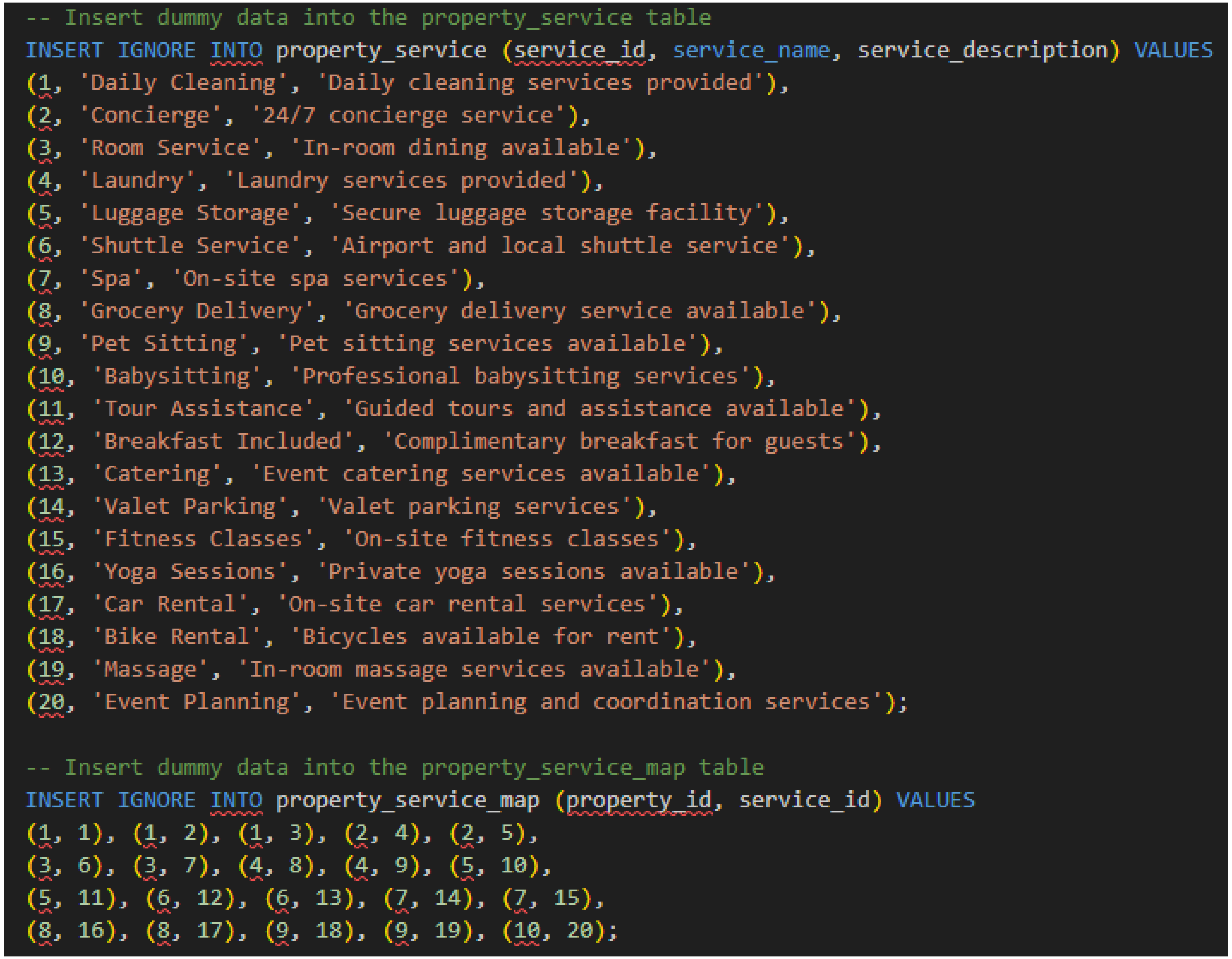
```sql
-- Insert dummy data into the property table
INSERT IGNORE INTO property (property_id, host_id, price_per_night, max_guests, created_at, updated_at, address_id) VALUES
(1, 4, '400', 6, '2023-11-06 15:13:27', '2023-11-06 15:14:51', 6),
(2, 12, '600', 8, '2023-11-12 21:05:39', '2023-11-12 21:06:42', 12),
(3, 7, '180', 4, '2023-11-07 16:11:23', '2023-11-07 16:12:56', 7),
(4, 19, '500', 9, '2023-11-19 12:08:45', '2023-11-19 12:09:19', 19),
(5, 5, '250', 5, '2023-11-05 14:04:19', '2023-11-05 14:05:53', 5),
(6, 14, '380', 5, '2023-11-14 23:07:32', '2023-11-14 23:08:48', 14),
(7, 3, '500', 8, '2023-11-03 12:02:14', '2023-11-03 12:03:59', 3),
(8, 1, '200', 4, '2023-11-01 10:15:42', '2023-11-01 10:16:36', 1),
(9, 8, '350', 5, '2023-11-08 17:09:53', '2023-11-08 17:10:47', 8),
(10, 18,  '350', 7, '2023-11-18 11:06:34', '2023-11-18 11:07:28', 18),
(11, 2, '350', 6, '2023-11-02 11:14:27', '2023-11-02 11:15:43', 2),
(12, 20,  '450', 8, '2023-11-20 13:10:45', '2023-11-20 13:12:12', 20),
(13, 13,  '450', 7, '2023-11-13 22:09:31', '2023-11-13 22:11:04', 13),
(14, 6,  '600', 6, '2023-11-06 15:04:18', '2023-11-06 15:05:21', 6),
(15, 10,  '220', 6, '2023-11-10 19:07:45', '2023-11-10 19:09:15', 10),
(16, 9, '300', 4, '2023-11-09 18:03:12', '2023-11-09 18:04:58', 9),
(17, 15,  '200', 6, '2023-11-15 08:13:27', '2023-11-15 08:14:41', 15),
(18, 11,  '280', 5, '2023-11-11 20:05:39', '2023-11-11 20:06:52', 11),
(19, 17,  '300', 6, '2023-11-17 10:02:54', '2023-11-17 10:04:23', 17),
(20, 16, '250', 8, '2023-11-16 09:08:12', '2023-11-16 09:09:48', 16);
```

Dummy data for the property_policy and property_policy_map table



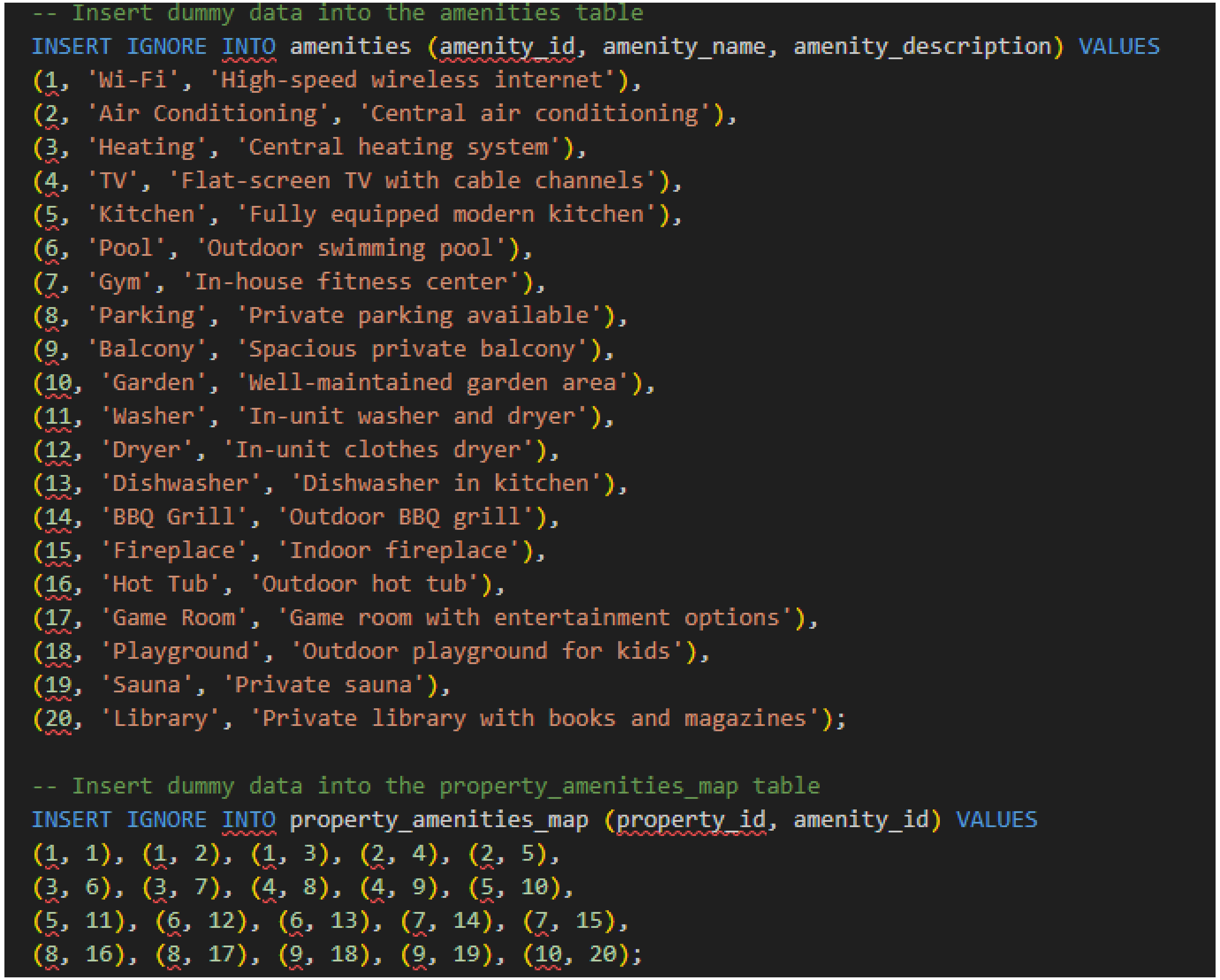
```
-- Insert dummy data into the property_policy table
INSERT IGNORE INTO property_policy (policy_id, policy_type, policy_description) VALUES
(1, 'Cancellation Policy', 'Full refund if canceled within 24 hours of booking'),
(2, 'Damage Policy', 'Damage to property incurs a $500 fine'),
(3, 'Check-in Policy', 'Check-in from 3 PM to 10 PM'),
(4, 'Check-out Policy', 'Check-out before 11 AM'),
(5, 'Pet Policy', 'Pets allowed with a $50 cleaning fee'),
(6, 'Smoking Policy', 'No smoking allowed in the property'),
(7, 'Guest Policy', 'Maximum of 4 guests allowed'),
(8, 'Noise Policy', 'Quiet hours from 10 PM to 7 AM'),
(9, 'Key Policy', 'Lost keys incur a $100 replacement fee'),
(10, 'Parking Policy', 'Free parking available on premises'),
(11, 'Cleaning Policy', 'Cleaning fee of $100 applies'),
(12, 'Cancellation Policy', '50% refund if canceled 7 days before arrival'),
(13, 'Damage Policy', 'No refund for intentional damage'),
(14, 'Check-in Policy', 'Check-in from 12 PM to 8 PM'),
(15, 'Check-out Policy', 'Check-out before 10 AM'),
(16, 'Pet Policy', 'No pets allowed'),
(17, 'Smoking Policy', 'Smoking allowed in designated areas only'),
(18, 'Guest Policy', 'Maximum of 6 guests allowed'),
(19, 'Noise Policy', 'No loud music after 9 PM'),
(20, 'Parking Policy', 'No parking available on premises');

-- Insert dummy data into the property_policy_map table
INSERT IGNORE INTO property_policy_map (property_id, policy_id) VALUES
(1, 1), (1, 2), (1, 3), (2, 4), (2, 5),
(3, 6), (3, 7), (3, 8), (4, 9), (4, 10),
(5, 11), (5, 12), (6, 13), (6, 14), (7, 15),
(8, 16), (8, 17), (9, 18), (10, 19), (10, 20);
```

Dummy data for the property_service and property_service_map tables



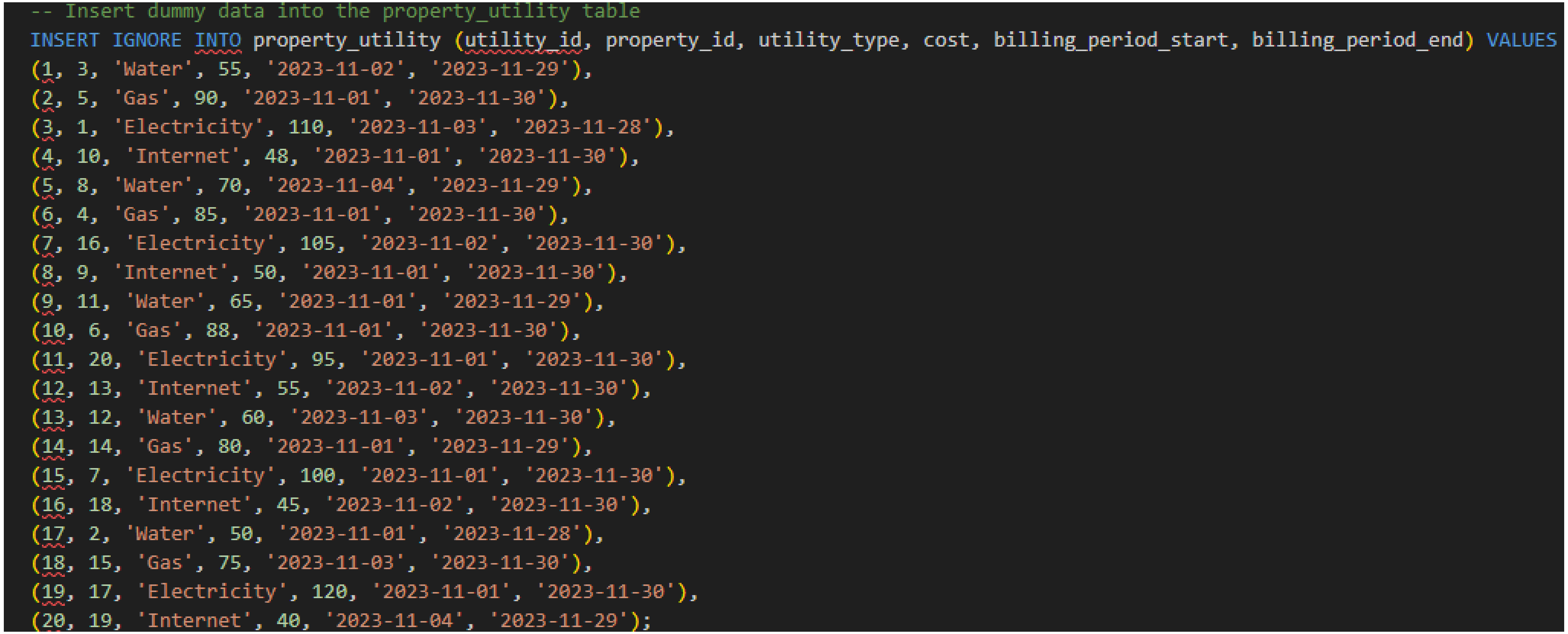
```sql
-- Insert dummy data into the property_service table
INSERT IGNORE INTO property_service (service_id, service_name, service_description) VALUES
(1, 'Daily Cleaning', 'Daily cleaning services provided'),
(2, 'Concierge', '24/7 concierge service'),
(3, 'Room Service', 'In-room dining available'),
(4, 'Laundry', 'Laundry services provided'),
(5, 'Luggage Storage', 'Secure luggage storage facility'),
(6, 'Shuttle Service', 'Airport and local shuttle service'),
(7, 'Spa', 'On-site spa services'),
(8, 'Grocery Delivery', 'Grocery delivery service available'),
(9, 'Pet Sitting', 'Pet sitting services available'),
(10, 'Babysitting', 'Professional babysitting services'),
(11, 'Tour Assistance', 'Guided tours and assistance available'),
(12, 'Breakfast Included', 'Complimentary breakfast for guests'),
(13, 'Catering', 'Event catering services available'),
(14, 'Valet Parking', 'Valet parking services'),
(15, 'Fitness Classes', 'On-site fitness classes'),
(16, 'Yoga Sessions', 'Private yoga sessions available'),
(17, 'Car Rental', 'On-site car rental services'),
(18, 'Bike Rental', 'Bicycles available for rent'),
(19, 'Massage', 'In-room massage services available'),
(20, 'Event Planning', 'Event planning and coordination services');

-- Insert dummy data into the property_service_map table
INSERT IGNORE INTO property_service_map (property_id, service_id) VALUES
(1, 1), (1, 2), (1, 3), (2, 4), (2, 5),
(3, 6), (3, 7), (4, 8), (4, 9), (5, 10),
(5, 11), (6, 12), (6, 13), (7, 14), (7, 15),
(8, 16), (8, 17), (9, 18), (9, 19), (10, 20);
```

Dummy data for the amenity and property_amenities_map table



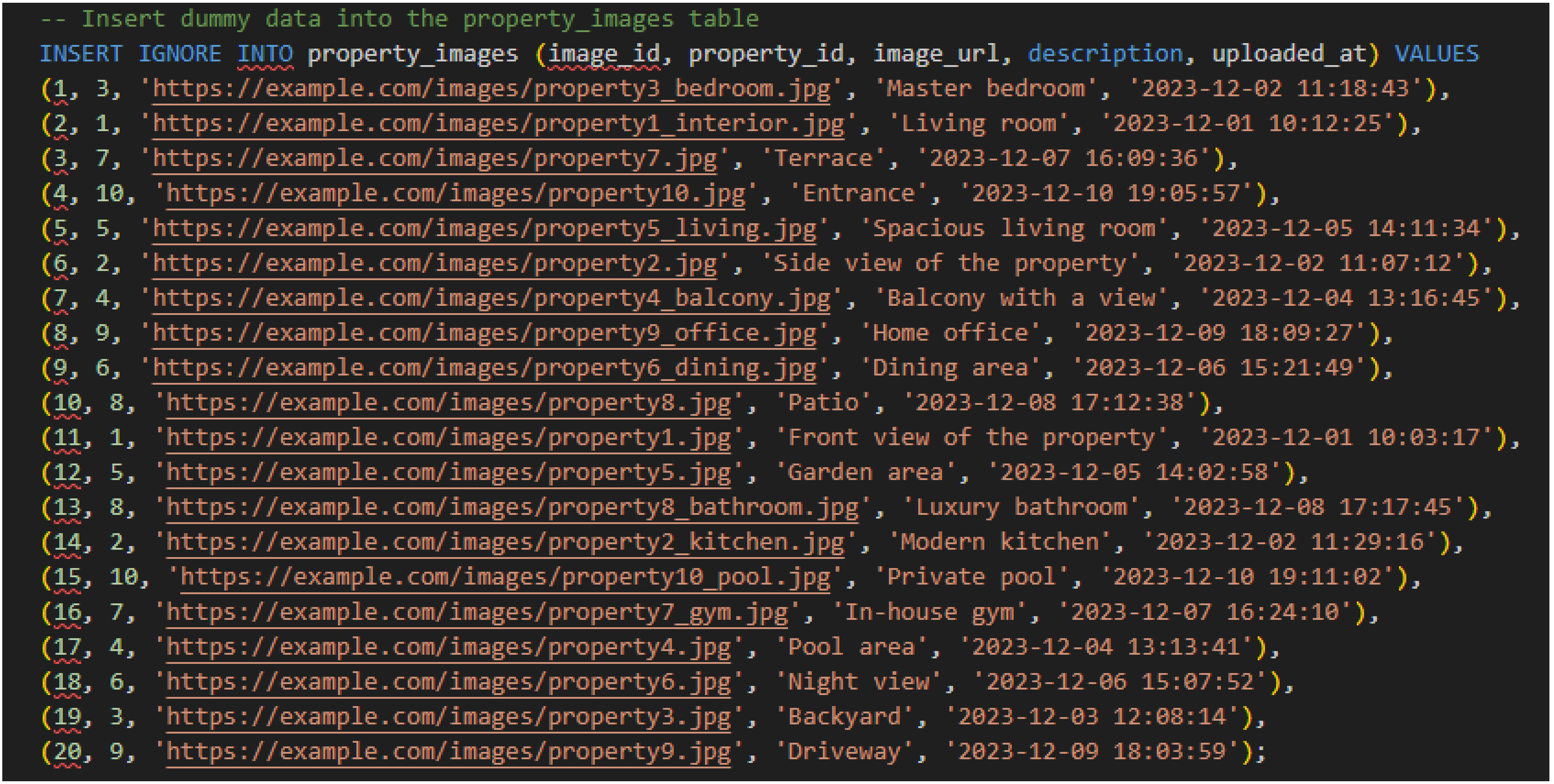
```sql
-- Insert dummy data into the amenities table
INSERT IGNORE INTO amenities (amenity_id, amenity_name, amenity_description) VALUES
(1, 'Wi-Fi', 'High-speed wireless internet'),
(2, 'Air Conditioning', 'Central air conditioning'),
(3, 'Heating', 'Central heating system'),
(4, 'TV', 'Flat-screen TV with cable channels'),
(5, 'Kitchen', 'Fully equipped modern kitchen'),
(6, 'Pool', 'Outdoor swimming pool'),
(7, 'Gym', 'In-house fitness center'),
(8, 'Parking', 'Private parking available'),
(9, 'Balcony', 'Spacious private balcony'),
(10, 'Garden', 'Well-maintained garden area'),
(11, 'Washer', 'In-unit washer and dryer'),
(12, 'Dryer', 'In-unit clothes dryer'),
(13, 'Dishwasher', 'Dishwasher in kitchen'),
(14, 'BBQ Grill', 'Outdoor BBQ grill'),
(15, 'Fireplace', 'Indoor fireplace'),
(16, 'Hot Tub', 'Outdoor hot tub'),
(17, 'Game Room', 'Game room with entertainment options'),
(18, 'Playground', 'Outdoor playground for kids'),
(19, 'Sauna', 'Private sauna'),
(20, 'Library', 'Private library with books and magazines');

-- Insert dummy data into the property_amenities_map table
INSERT IGNORE INTO property_amenities_map (property_id, amenity_id) VALUES
(1, 1), (1, 2), (1, 3), (2, 4), (2, 5),
(3, 6), (3, 7), (4, 8), (4, 9), (5, 10),
(5, 11), (6, 12), (6, 13), (7, 14), (7, 15),
(8, 16), (8, 17), (9, 18), (9, 19), (10, 20);
```

Dummy data for the property_utility table



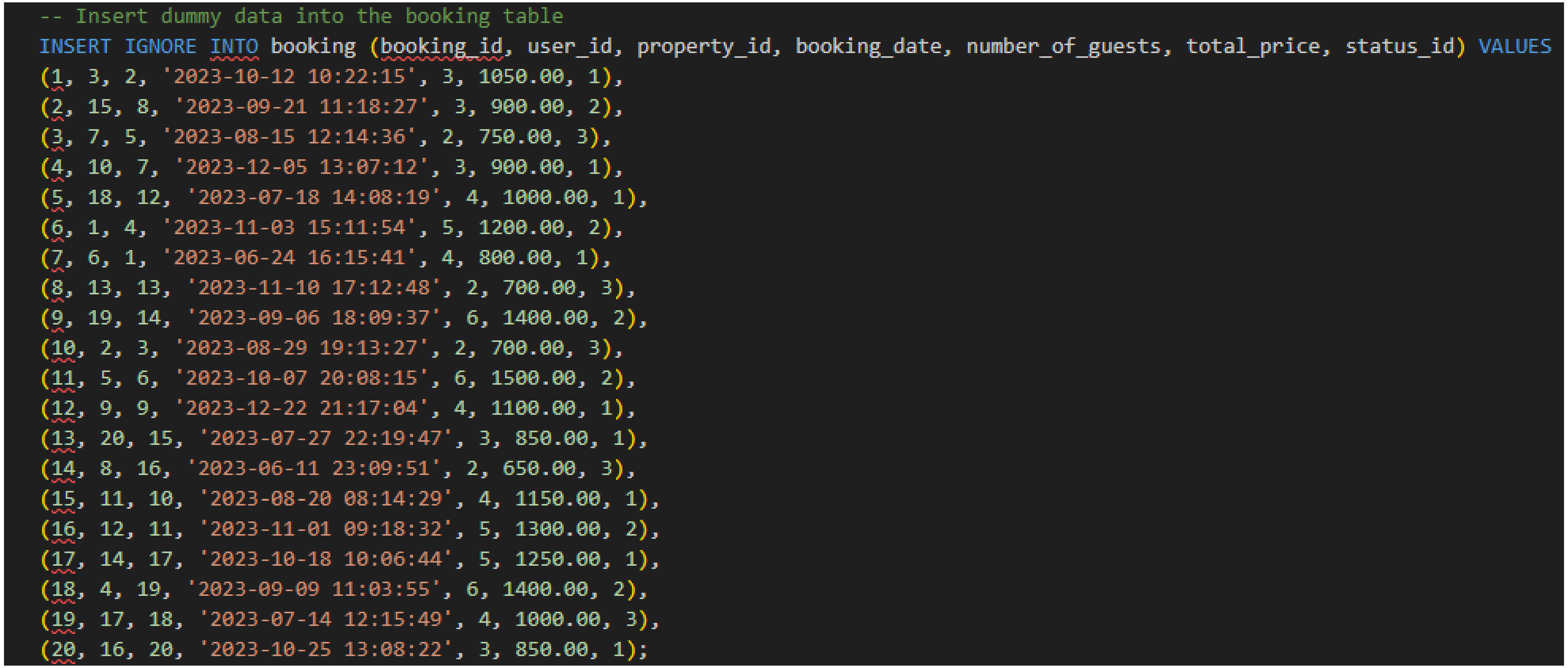
```
-- Insert dummy data into the property_utility table
INSERT IGNORE INTO property_utility (utility_id, property_id, utility_type, cost, billing_period_start, billing_period_end) VALUES
(1, 3, 'Water', 55, '2023-11-02', '2023-11-29'),
(2, 5, 'Gas', 90, '2023-11-01', '2023-11-30'),
(3, 1, 'Electricity', 110, '2023-11-03', '2023-11-28'),
(4, 10, 'Internet', 48, '2023-11-01', '2023-11-30'),
(5, 8, 'Water', 70, '2023-11-04', '2023-11-29'),
(6, 4, 'Gas', 85, '2023-11-01', '2023-11-30'),
(7, 16, 'Electricity', 105, '2023-11-02', '2023-11-30'),
(8, 9, 'Internet', 50, '2023-11-01', '2023-11-30'),
(9, 11, 'Water', 65, '2023-11-01', '2023-11-29'),
(10, 6, 'Gas', 88, '2023-11-01', '2023-11-30'),
(11, 20, 'Electricity', 95, '2023-11-01', '2023-11-30'),
(12, 13, 'Internet', 55, '2023-11-02', '2023-11-30'),
(13, 12, 'Water', 60, '2023-11-03', '2023-11-30'),
(14, 14, 'Gas', 80, '2023-11-01', '2023-11-29'),
(15, 7, 'Electricity', 100, '2023-11-01', '2023-11-30'),
(16, 18, 'Internet', 45, '2023-11-02', '2023-11-30'),
(17, 2, 'Water', 50, '2023-11-01', '2023-11-28'),
(18, 15, 'Gas', 75, '2023-11-03', '2023-11-30'),
(19, 17, 'Electricity', 120, '2023-11-01', '2023-11-30'),
(20, 19, 'Internet', 40, '2023-11-04', '2023-11-29');
```

Dummy data for the property_images table



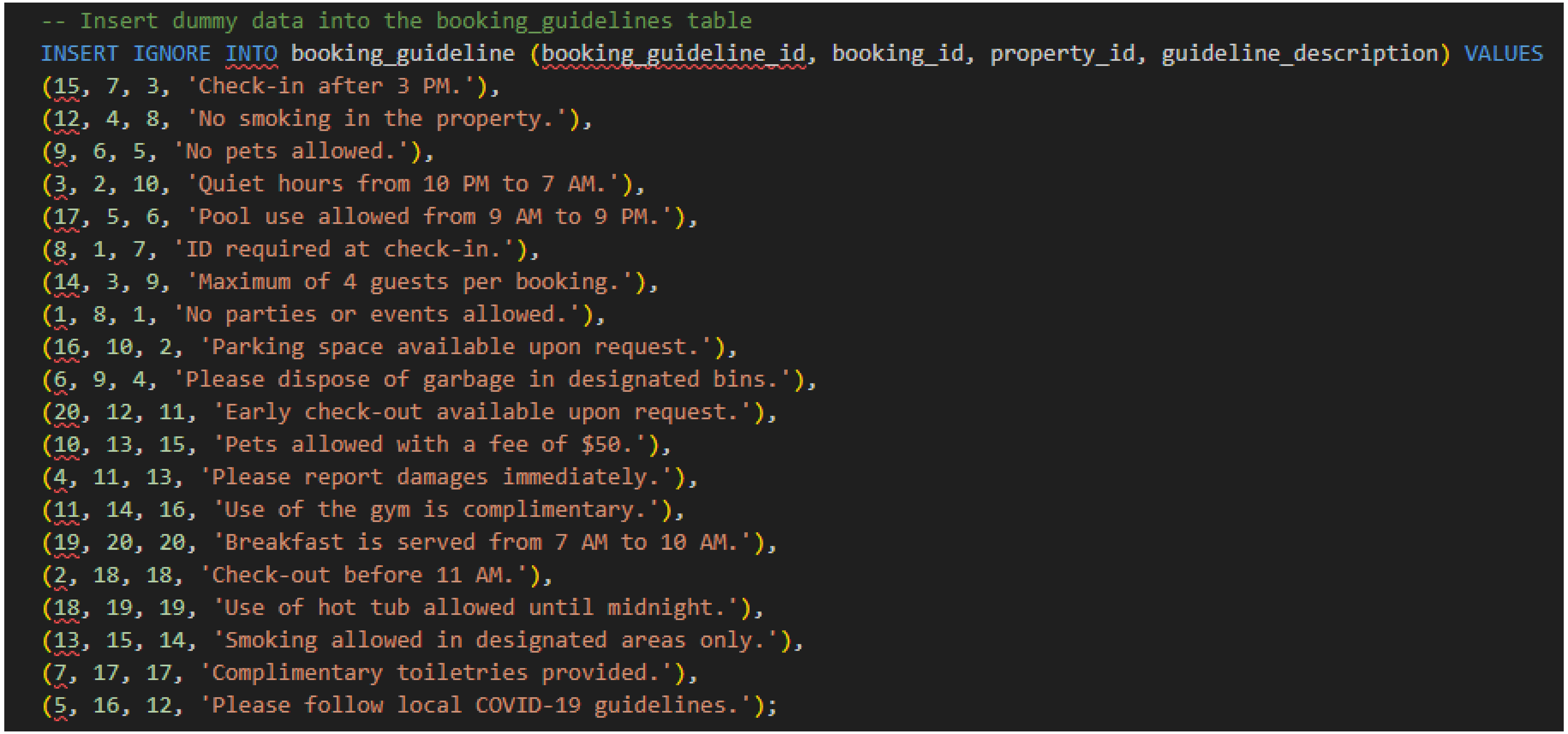
```sql
-- Insert dummy data into the property_images table
INSERT IGNORE INTO property_images (image_id, property_id, image_url, description, uploaded_at) VALUES
(1, 3, 'https://example.com/images/property3_bedroom.jpg', 'Master bedroom', '2023-12-02 11:18:43'),
(2, 1, 'https://example.com/images/property1_interior.jpg', 'Living room', '2023-12-01 10:12:25'),
(3, 7, 'https://example.com/images/property7.jpg', 'Terrace', '2023-12-07 16:09:36'),
(4, 10, 'https://example.com/images/property10.jpg', 'Entrance', '2023-12-10 19:05:57'),
(5, 5, 'https://example.com/images/property5_living.jpg', 'Spacious living room', '2023-12-05 14:11:34'),
(6, 2, 'https://example.com/images/property2.jpg', 'Side view of the property', '2023-12-02 11:07:12'),
(7, 4, 'https://example.com/images/property4_balcony.jpg', 'Balcony with a view', '2023-12-04 13:16:45'),
(8, 9, 'https://example.com/images/property9_office.jpg', 'Home office', '2023-12-09 18:09:27'),
(9, 6, 'https://example.com/images/property6_dining.jpg', 'Dining area', '2023-12-06 15:21:49'),
(10, 8, 'https://example.com/images/property8.jpg', 'Patio', '2023-12-08 17:12:38'),
(11, 1, 'https://example.com/images/property1.jpg', 'Front view of the property', '2023-12-01 10:03:17'),
(12, 5, 'https://example.com/images/property5.jpg', 'Garden area', '2023-12-05 14:02:58'),
(13, 8, 'https://example.com/images/property8_bathroom.jpg', 'Luxury bathroom', '2023-12-08 17:17:45'),
(14, 2, 'https://example.com/images/property2_kitchen.jpg', 'Modern kitchen', '2023-12-02 11:29:16'),
(15, 10, 'https://example.com/images/property10_pool.jpg', 'Private pool', '2023-12-10 19:11:02'),
(16, 7, 'https://example.com/images/property7_gym.jpg', 'In-house gym', '2023-12-07 16:24:10'),
(17, 4, 'https://example.com/images/property4.jpg', 'Pool area', '2023-12-04 13:13:41'),
(18, 6, 'https://example.com/images/property6.jpg', 'Night view', '2023-12-06 15:07:52'),
(19, 3, 'https://example.com/images/property3.jpg', 'Backyard', '2023-12-03 12:08:14'),
(20, 9, 'https://example.com/images/property9.jpg', 'Driveway', '2023-12-09 18:03:59');
```

Dummy data for the booking table



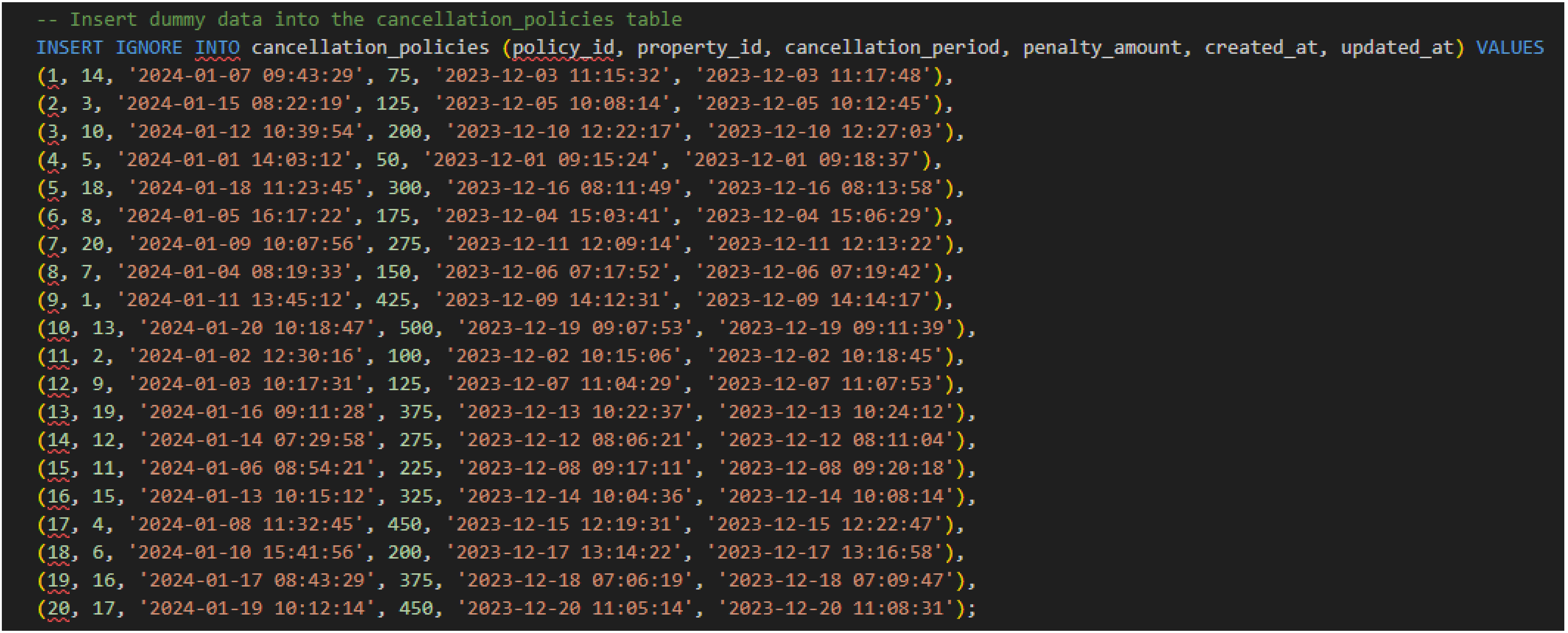
```sql
-- Insert dummy data into the booking table
INSERT IGNORE INTO booking (booking_id, user_id, property_id, booking_date, number_of_guests, total_price, status_id) VALUES
(1, 3, 2, '2023-10-12 10:22:15', 3, 1050.00, 1),
(2, 15, 8, '2023-09-21 11:18:27', 3, 900.00, 2),
(3, 7, 5, '2023-08-15 12:14:36', 2, 750.00, 3),
(4, 10, 7, '2023-12-05 13:07:12', 3, 900.00, 1),
(5, 18, 12, '2023-07-18 14:08:19', 4, 1000.00, 1),
(6, 1, 4, '2023-11-03 15:11:54', 5, 1200.00, 2),
(7, 6, 1, '2023-06-24 16:15:41', 4, 800.00, 1),
(8, 13, 13, '2023-11-10 17:12:48', 2, 700.00, 3),
(9, 19, 14, '2023-09-06 18:09:37', 6, 1400.00, 2),
(10, 2, 3, '2023-08-29 19:13:27', 2, 700.00, 3),
(11, 5, 6, '2023-10-07 20:08:15', 6, 1500.00, 2),
(12, 9, 9, '2023-12-22 21:17:04', 4, 1100.00, 1),
(13, 20, 15, '2023-07-27 22:19:47', 3, 850.00, 1),
(14, 8, 16, '2023-06-11 23:09:51', 2, 650.00, 3),
(15, 11, 10, '2023-08-20 08:14:29', 4, 1150.00, 1),
(16, 12, 11, '2023-11-01 09:18:32', 5, 1300.00, 2),
(17, 14, 17, '2023-10-18 10:06:44', 5, 1250.00, 1),
(18, 4, 19, '2023-09-09 11:03:55', 6, 1400.00, 2),
(19, 17, 18, '2023-07-14 12:15:49', 4, 1000.00, 3),
(20, 16, 20, '2023-10-25 13:08:22', 3, 850.00, 1);
```

Dummy data for the booking_guideline table



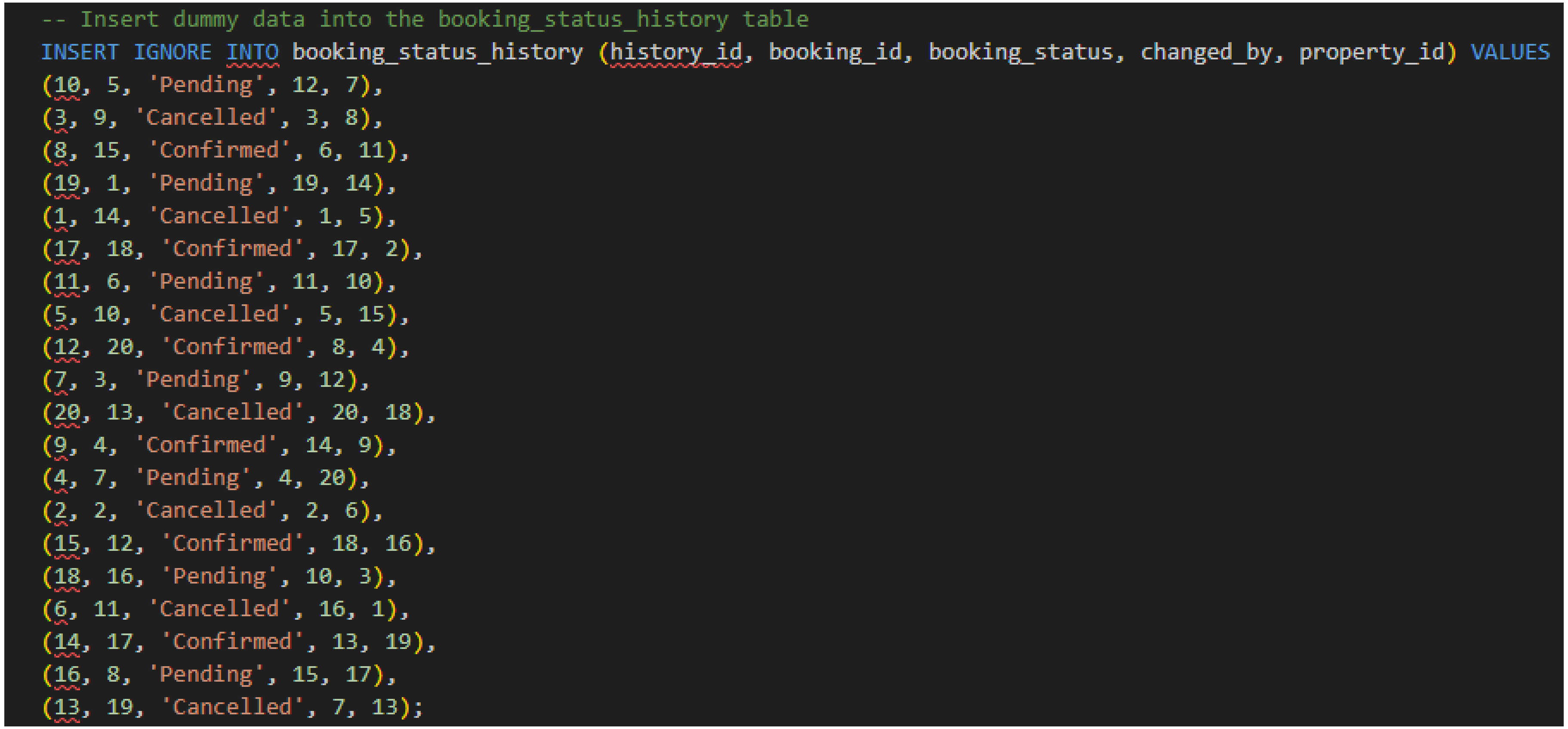
```
-- Insert dummy data into the booking_guidelines table
INSERT IGNORE INTO booking_guideline (booking_guideline_id, booking_id, property_id, guideline_description) VALUES
(15, 7, 3, 'Check-in after 3 PM.'),
(12, 4, 8, 'No smoking in the property.'),
(9, 6, 5, 'No pets allowed.'),
(3, 2, 10, 'Quiet hours from 10 PM to 7 AM.'),
(17, 5, 6, 'Pool use allowed from 9 AM to 9 PM.'),
(8, 1, 7, 'ID required at check-in.'),
(14, 3, 9, 'Maximum of 4 guests per booking.'),
(1, 8, 1, 'No parties or events allowed.'),
(16, 10, 2, 'Parking space available upon request.'),
(6, 9, 4, 'Please dispose of garbage in designated bins.'),
(20, 12, 11, 'Early check-out available upon request.'),
(10, 13, 15, 'Pets allowed with a fee of $50.'),
(4, 11, 13, 'Please report damages immediately.'),
(11, 14, 16, 'Use of the gym is complimentary.'),
(19, 20, 20, 'Breakfast is served from 7 AM to 10 AM.'),
(2, 18, 18, 'Check-out before 11 AM.'),
(18, 19, 19, 'Use of hot tub allowed until midnight.'),
(13, 15, 14, 'Smoking allowed in designated areas only.'),
(7, 17, 17, 'Complimentary toiletries provided.'),
(5, 16, 12, 'Please follow local COVID-19 guidelines.');
```

Dummy data for the cancellation_policies table



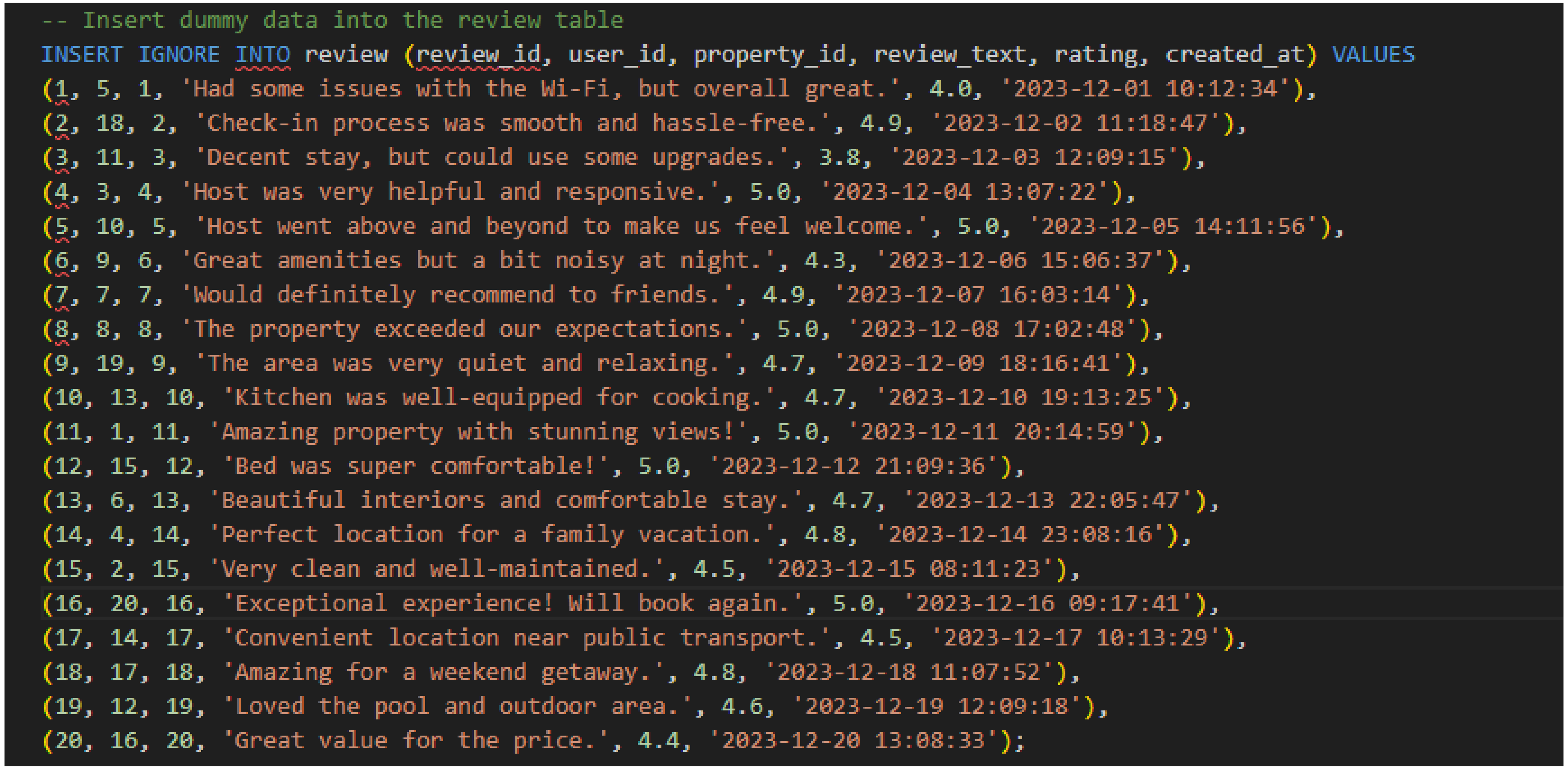
```
-- Insert dummy data into the cancellation_policies table
INSERT IGNORE INTO cancellation_policies (policy_id, property_id, cancellation_period, penalty_amount, created_at, updated_at) VALUES
(1, 14, '2024-01-07 09:43:29', 75, '2023-12-03 11:15:32', '2023-12-03 11:17:48'),
(2, 3, '2024-01-15 08:22:19', 125, '2023-12-05 10:08:14', '2023-12-05 10:12:45'),
(3, 10, '2024-01-12 10:39:54', 200, '2023-12-10 12:22:17', '2023-12-10 12:27:03'),
(4, 5, '2024-01-01 14:03:12', 50, '2023-12-01 09:15:24', '2023-12-01 09:18:37'),
(5, 18, '2024-01-18 11:23:45', 300, '2023-12-16 08:11:49', '2023-12-16 08:13:58'),
(6, 8, '2024-01-05 16:17:22', 175, '2023-12-04 15:03:41', '2023-12-04 15:06:29'),
(7, 20, '2024-01-09 10:07:56', 275, '2023-12-11 12:09:14', '2023-12-11 12:13:22'),
(8, 7, '2024-01-04 08:19:33', 150, '2023-12-06 07:17:52', '2023-12-06 07:19:42'),
(9, 1, '2024-01-11 13:45:12', 425, '2023-12-09 14:12:31', '2023-12-09 14:14:17'),
(10, 13, '2024-01-20 10:18:47', 500, '2023-12-19 09:07:53', '2023-12-19 09:11:39'),
(11, 2, '2024-01-02 12:30:16', 100, '2023-12-02 10:15:06', '2023-12-02 10:18:45'),
(12, 9, '2024-01-03 10:17:31', 125, '2023-12-07 11:04:29', '2023-12-07 11:07:53'),
(13, 19, '2024-01-16 09:11:28', 375, '2023-12-13 10:22:37', '2023-12-13 10:24:12'),
(14, 12, '2024-01-14 07:29:58', 275, '2023-12-12 08:06:21', '2023-12-12 08:11:04'),
(15, 11, '2024-01-06 08:54:21', 225, '2023-12-08 09:17:11', '2023-12-08 09:20:18'),
(16, 15, '2024-01-13 10:15:12', 325, '2023-12-14 10:04:36', '2023-12-14 10:08:14'),
(17, 4, '2024-01-08 11:32:45', 450, '2023-12-15 12:19:31', '2023-12-15 12:22:47'),
(18, 6, '2024-01-10 15:41:56', 200, '2023-12-17 13:14:22', '2023-12-17 13:16:58'),
(19, 16, '2024-01-17 08:43:29', 375, '2023-12-18 07:06:19', '2023-12-18 07:09:47'),
(20, 17, '2024-01-19 10:12:14', 450, '2023-12-20 11:05:14', '2023-12-20 11:08:31');
```

Dummy data for the booking_status_history table



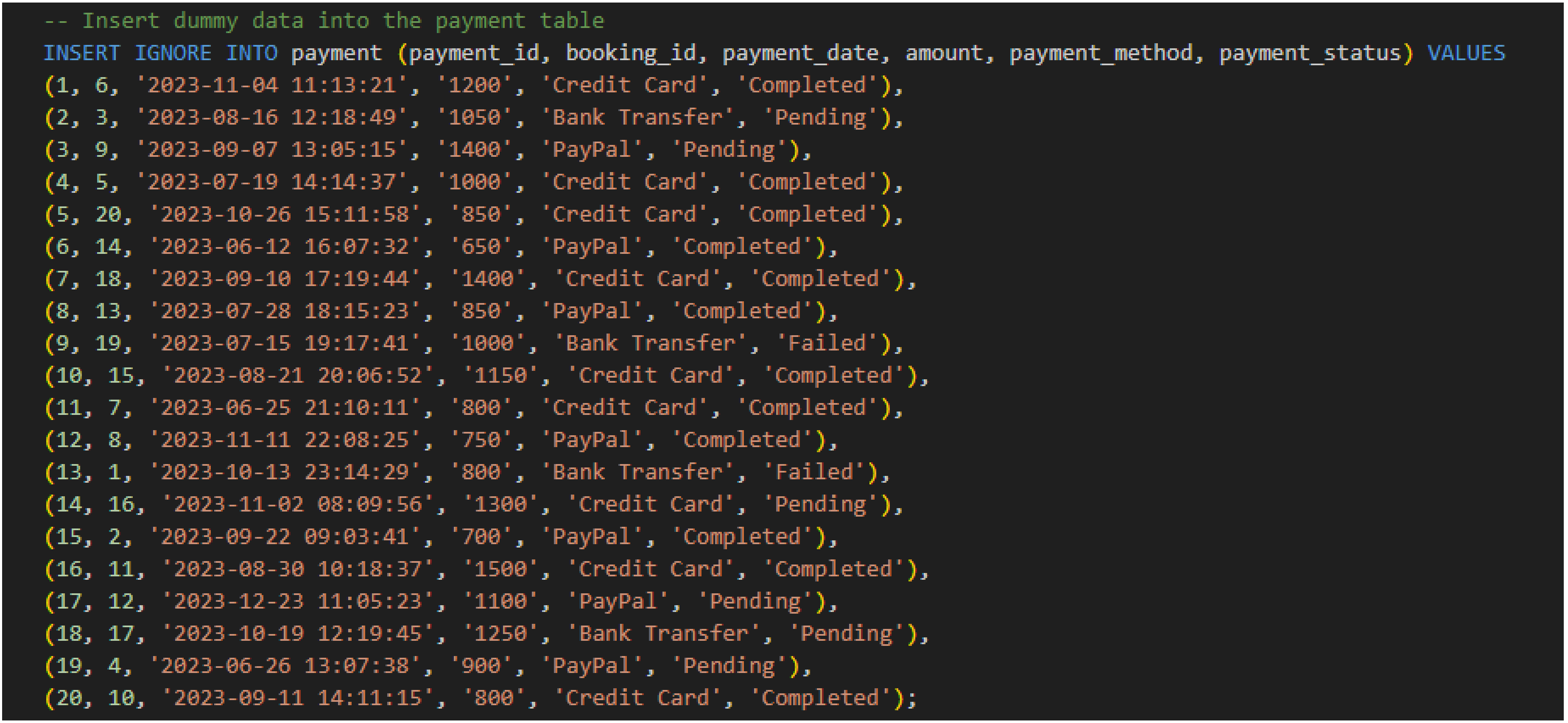
```sql
-- Insert dummy data into the booking_status_history table
INSERT IGNORE INTO booking_status_history (history_id, booking_id, booking_status, changed_by, property_id) VALUES
(10, 5, 'Pending', 12, 7),
(3, 9, 'Cancelled', 3, 8),
(8, 15, 'Confirmed', 6, 11),
(19, 1, 'Pending', 19, 14),
(1, 14, 'Cancelled', 1, 5),
(17, 18, 'Confirmed', 17, 2),
(11, 6, 'Pending', 11, 10),
(5, 10, 'Cancelled', 5, 15),
(12, 20, 'Confirmed', 8, 4),
(7, 3, 'Pending', 9, 12),
(20, 13, 'Cancelled', 20, 18),
(9, 4, 'Confirmed', 14, 9),
(4, 7, 'Pending', 4, 20),
(2, 2, 'Cancelled', 2, 6),
(15, 12, 'Confirmed', 18, 16),
(18, 16, 'Pending', 10, 3),
(6, 11, 'Cancelled', 16, 1),
(14, 17, 'Confirmed', 13, 19),
(16, 8, 'Pending', 15, 17),
(13, 19, 'Cancelled', 7, 13);
```

Dummy data for the review table



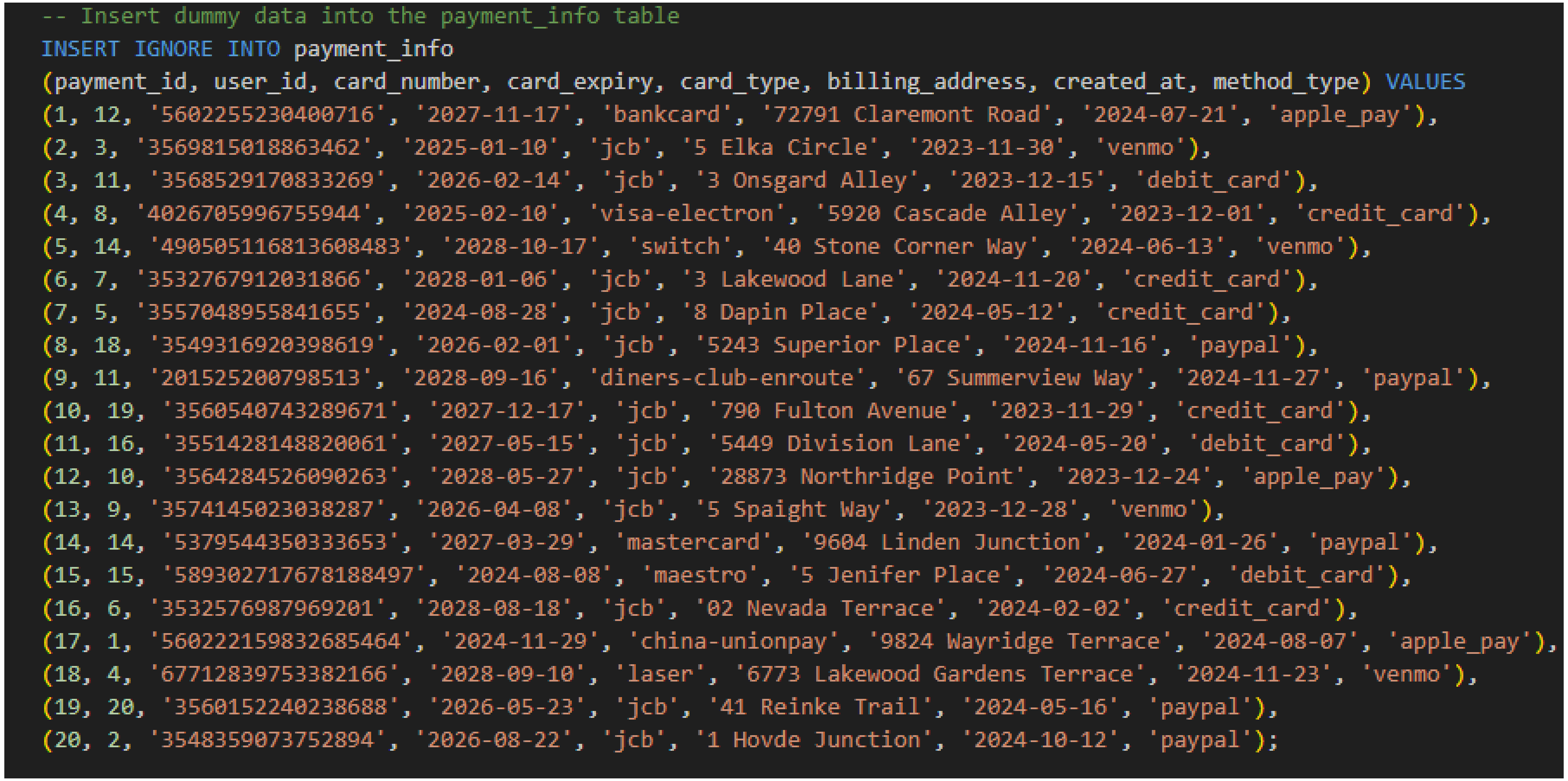
```sql
-- Insert dummy data into the review table
INSERT IGNORE INTO review (review_id, user_id, property_id, review_text, rating, created_at) VALUES
(1, 5, 1, 'Had some issues with the Wi-Fi, but overall great.', 4.0, '2023-12-01 10:12:34'),
(2, 18, 2, 'Check-in process was smooth and hassle-free.', 4.9, '2023-12-02 11:18:47'),
(3, 11, 3, 'Decent stay, but could use some upgrades.', 3.8, '2023-12-03 12:09:15'),
(4, 3, 4, 'Host was very helpful and responsive.', 5.0, '2023-12-04 13:07:22'),
(5, 10, 5, 'Host went above and beyond to make us feel welcome.', 5.0, '2023-12-05 14:11:56'),
(6, 9, 6, 'Great amenities but a bit noisy at night.', 4.3, '2023-12-06 15:06:37'),
(7, 7, 7, 'Would definitely recommend to friends.', 4.9, '2023-12-07 16:03:14'),
(8, 8, 8, 'The property exceeded our expectations.', 5.0, '2023-12-08 17:02:48'),
(9, 19, 9, 'The area was very quiet and relaxing.', 4.7, '2023-12-09 18:16:41'),
(10, 13, 10, 'Kitchen was well-equipped for cooking.', 4.7, '2023-12-10 19:13:25'),
(11, 1, 11, 'Amazing property with stunning views!', 5.0, '2023-12-11 20:14:59'),
(12, 15, 12, 'Bed was super comfortable!', 5.0, '2023-12-12 21:09:36'),
(13, 6, 13, 'Beautiful interiors and comfortable stay.', 4.7, '2023-12-13 22:05:47'),
(14, 4, 14, 'Perfect location for a family vacation.', 4.8, '2023-12-14 23:08:16'),
(15, 2, 15, 'Very clean and well-maintained.', 4.5, '2023-12-15 08:11:23'),
(16, 20, 16, 'Exceptional experience! Will book again.', 5.0, '2023-12-16 09:17:41'),
(17, 14, 17, 'Convenient location near public transport.', 4.5, '2023-12-17 10:13:29'),
(18, 17, 18, 'Amazing for a weekend getaway.', 4.8, '2023-12-18 11:07:52'),
(19, 12, 19, 'Loved the pool and outdoor area.', 4.6, '2023-12-19 12:09:18'),
(20, 16, 20, 'Great value for the price.', 4.4, '2023-12-20 13:08:33');
```

Dummy data for the payment table



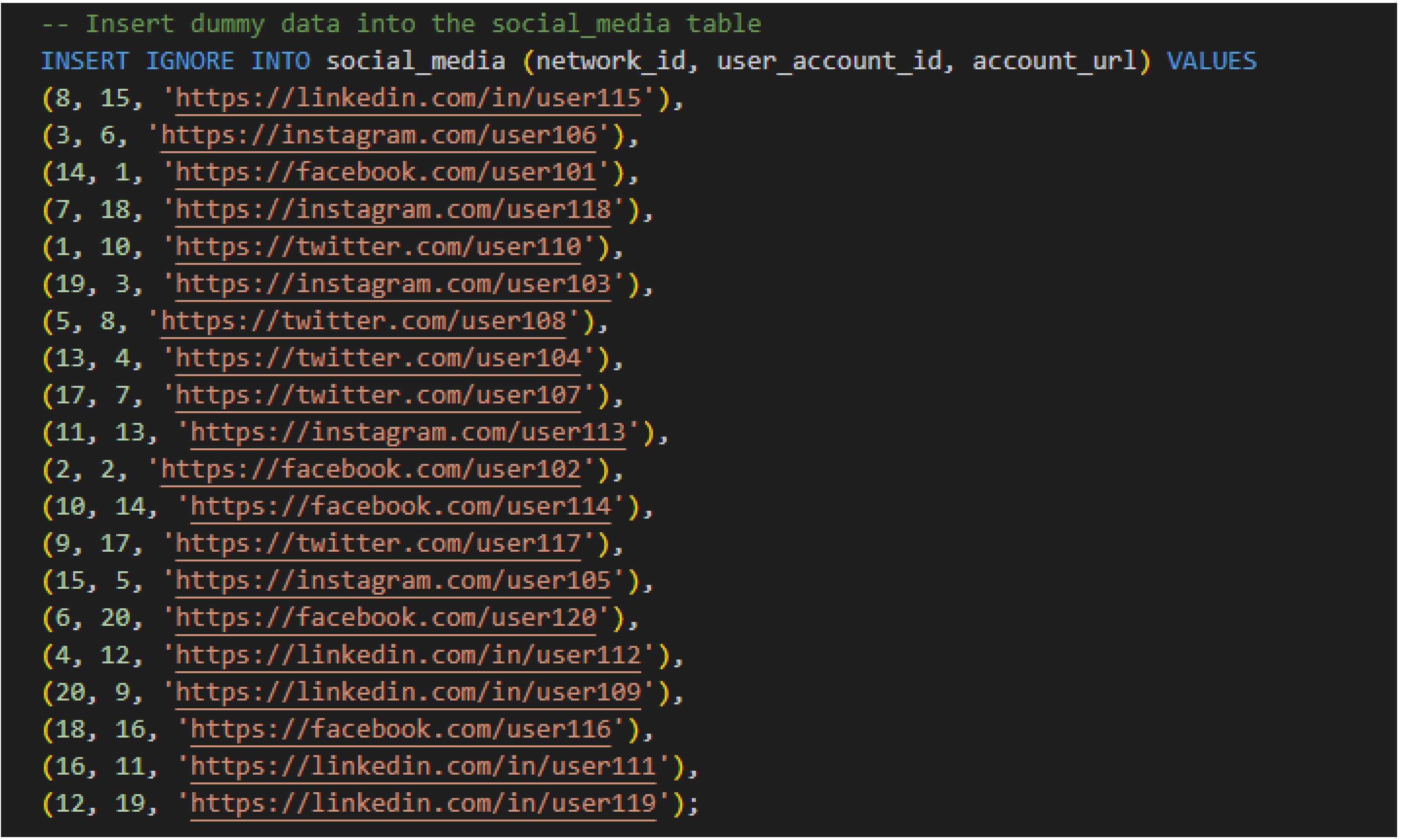
```
-- Insert dummy data into the payment table
INSERT IGNORE INTO payment (payment_id, booking_id, payment_date, amount, payment_method, payment_status) VALUES
(1, 6, '2023-11-04 11:13:21', '1200', 'Credit Card', 'Completed'),
(2, 3, '2023-08-16 12:18:49', '1050', 'Bank Transfer', 'Pending'),
(3, 9, '2023-09-07 13:05:15', '1400', 'PayPal', 'Pending'),
(4, 5, '2023-07-19 14:14:37', '1000', 'Credit Card', 'Completed'),
(5, 20, '2023-10-26 15:11:58', '850', 'Credit Card', 'Completed'),
(6, 14, '2023-06-12 16:07:32', '650', 'PayPal', 'Completed'),
(7, 18, '2023-09-10 17:19:44', '1400', 'Credit Card', 'Completed'),
(8, 13, '2023-07-28 18:15:23', '850', 'PayPal', 'Completed'),
(9, 19, '2023-07-15 19:17:41', '1000', 'Bank Transfer', 'Failed'),
(10, 15, '2023-08-21 20:06:52', '1150', 'Credit Card', 'Completed'),
(11, 7, '2023-06-25 21:10:11', '800', 'Credit Card', 'Completed'),
(12, 8, '2023-11-11 22:08:25', '750', 'PayPal', 'Completed'),
(13, 1, '2023-10-13 23:14:29', '800', 'Bank Transfer', 'Failed'),
(14, 16, '2023-11-02 08:09:56', '1300', 'Credit Card', 'Pending'),
(15, 2, '2023-09-22 09:03:41', '700', 'PayPal', 'Completed'),
(16, 11, '2023-08-30 10:18:37', '1500', 'Credit Card', 'Completed'),
(17, 12, '2023-12-23 11:05:23', '1100', 'PayPal', 'Pending'),
(18, 17, '2023-10-19 12:19:45', '1250', 'Bank Transfer', 'Pending'),
(19, 4, '2023-06-26 13:07:38', '900', 'PayPal', 'Pending'),
(20, 10, '2023-09-11 14:11:15', '800', 'Credit Card', 'Completed');
```

Dummy data for the payment_info table



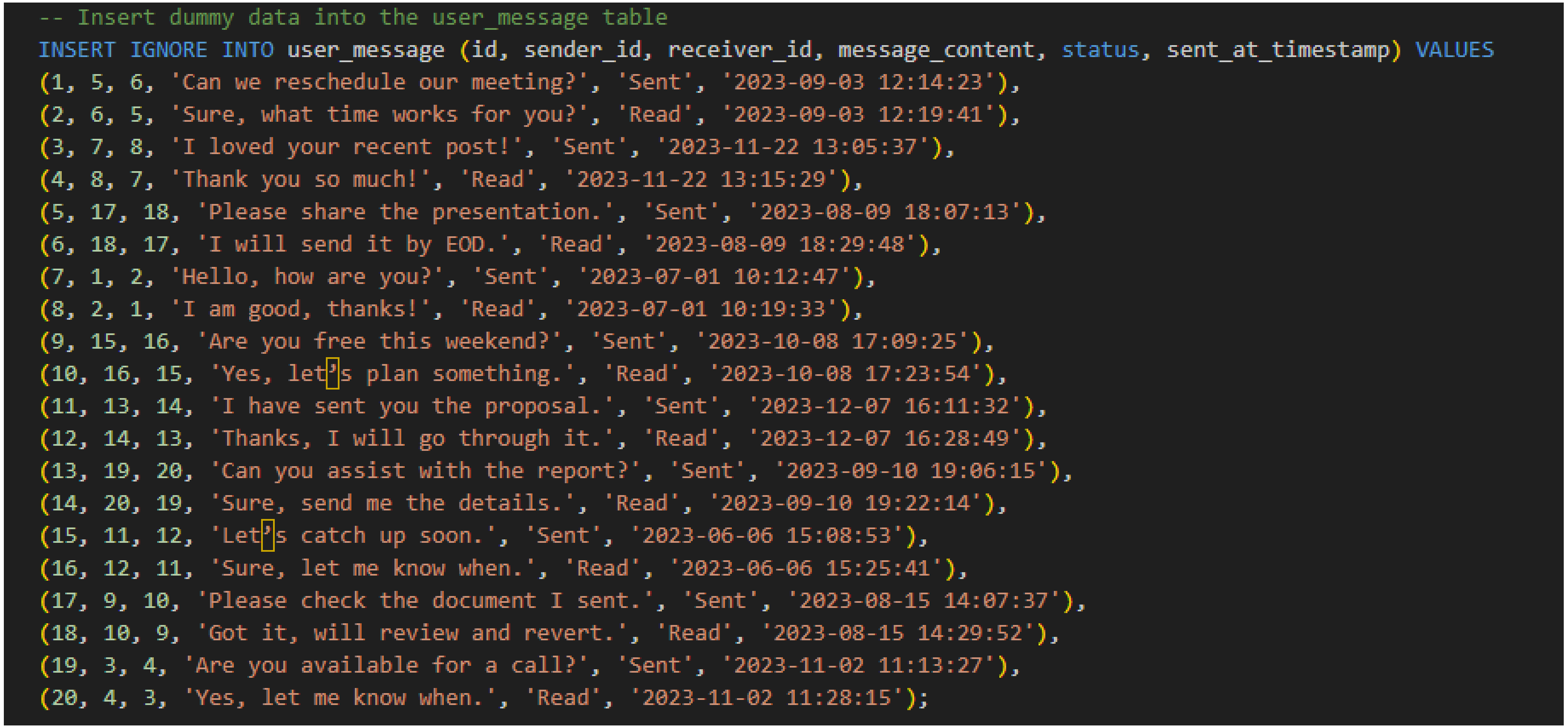
```sql
-- Insert dummy data into the payment_info table
INSERT IGNORE INTO payment_info
(payment_id, user_id, card_number, card_expiry, card_type, billing_address, created_at, method_type) VALUES
(1, 12, '5602255230400716', '2027-11-17', 'bankcard', '72791 Claremont Road', '2024-07-21', 'apple_pay'),
(2, 3, '3569815018863462', '2025-01-10', 'jcb', '5 Elka Circle', '2023-11-30', 'venmo'),
(3, 11, '3568529170833269', '2026-02-14', 'jcb', '3 Onsgard Alley', '2023-12-15', 'debit_card'),
(4, 8, '4026705996755944', '2025-02-10', 'visa-electron', '5920 Cascade Alley', '2023-12-01', 'credit_card'),
(5, 14, '490505116813608483', '2028-10-17', 'switch', '40 Stone Corner Way', '2024-06-13', 'venmo'),
(6, 7, '3532767912031866', '2028-01-06', 'jcb', '3 Lakewood Lane', '2024-11-20', 'credit_card'),
(7, 5, '3557048955841655', '2024-08-28', 'jcb', '8 Dapin Place', '2024-05-12', 'credit_card'),
(8, 18, '3549316920398619', '2026-02-01', 'jcb', '5243 Superior Place', '2024-11-16', 'paypal'),
(9, 11, '201525200798513', '2028-09-16', 'diners-club-enroute', '67 Summerview Way', '2024-11-27', 'paypal'),
(10, 19, '3560540743289671', '2027-12-17', 'jcb', '790 Fulton Avenue', '2023-11-29', 'credit_card'),
(11, 16, '3551428148820061', '2027-05-15', 'jcb', '5449 Division Lane', '2024-05-20', 'debit_card'),
(12, 10, '3564284526090263', '2028-05-27', 'jcb', '28873 Northridge Point', '2023-12-24', 'apple_pay'),
(13, 9, '3574145023038287', '2026-04-08', 'jcb', '5 Spaight Way', '2023-12-28', 'venmo'),
(14, 14, '5379544350333653', '2027-03-29', 'mastercard', '9604 Linden Junction', '2024-01-26', 'paypal'),
(15, 15, '589302717678188497', '2024-08-08', 'maestro', '5 Jenifer Place', '2024-06-27', 'debit_card'),
(16, 6, '3532576987969201', '2028-08-18', 'jcb', '02 Nevada Terrace', '2024-02-02', 'credit_card'),
(17, 1, '560222159832685464', '2024-11-29', 'china-unionpay', '9824 Wayridge Terrace', '2024-08-07', 'apple_pay'),
(18, 4, '6771283975338216б', '2028-09-10', 'laser', '6773 Lakewood Gardens Terrace', '2024-11-23', 'venmo'),
(19, 20, '3560152240238688', '2026-05-23', 'jcb', '41 Reinke Trail', '2024-05-16', 'paypal'),
(20, 2, '3548359073752894', '2026-08-22', 'jcb', '1 Hovde Junction', '2024-10-12', 'paypal');
```

Dummy data for the social_media table



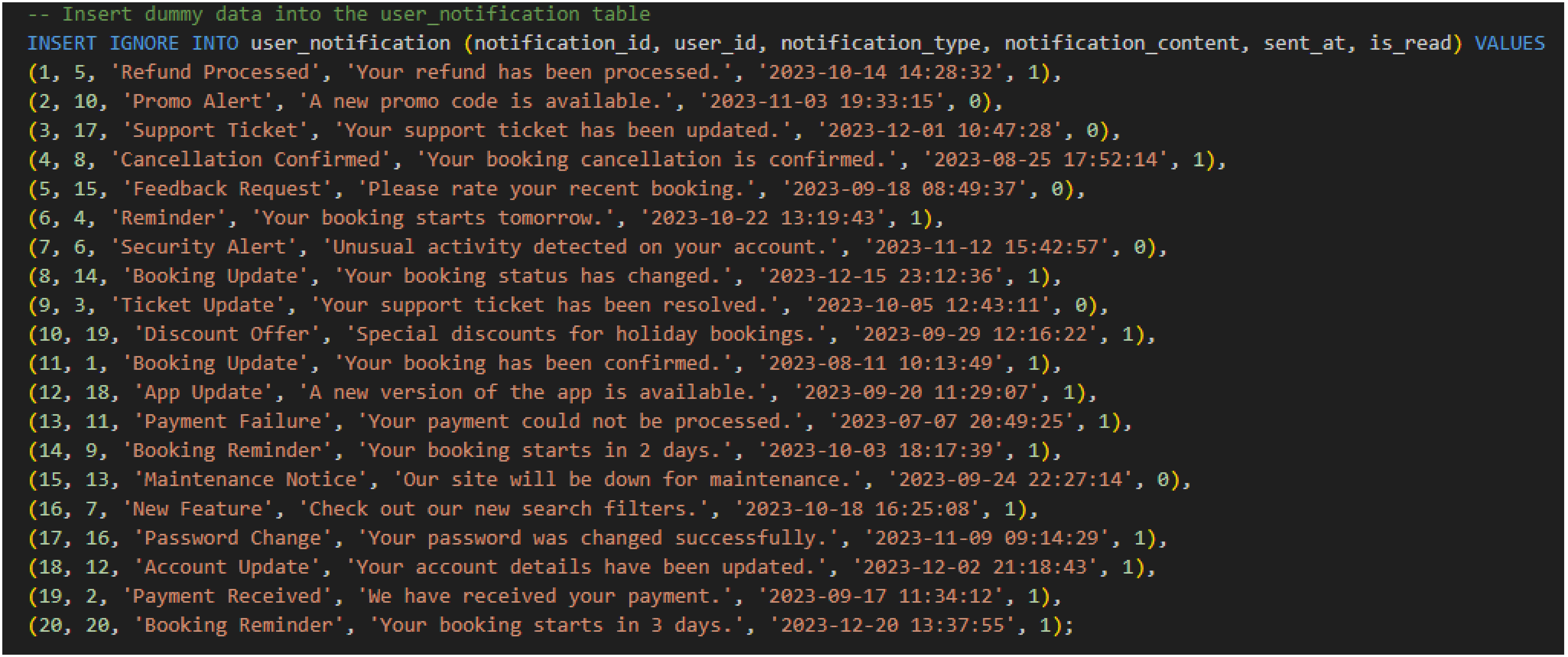
```
-- Insert dummy data into the social_media table
INSERT IGNORE INTO social_media (network_id, user_account_id, account_url) VALUES
(8, 15, 'https://linkedin.com/in/user115'),
(3, 6, 'https://instagram.com/user106'),
(14, 1, 'https://facebook.com/user101'),
(7, 18, 'https://instagram.com/user118'),
(1, 10, 'https://twitter.com/user110'),
(19, 3, 'https://instagram.com/user103'),
(5, 8, 'https://twitter.com/user108'),
(13, 4, 'https://twitter.com/user104'),
(17, 7, 'https://twitter.com/user107'),
(11, 13, 'https://instagram.com/user113'),
(2, 2, 'https://facebook.com/user102'),
(10, 14, 'https://facebook.com/user114'),
(9, 17, 'https://twitter.com/user117'),
(15, 5, 'https://instagram.com/user105'),
(6, 20, 'https://facebook.com/user120'),
(4, 12, 'https://linkedin.com/in/user112'),
(20, 9, 'https://linkedin.com/in/user109'),
(18, 16, 'https://facebook.com/user116'),
(16, 11, 'https://linkedin.com/in/user111'),
(12, 19, 'https://linkedin.com/in/user119');
```

Dummy data for the user_message table



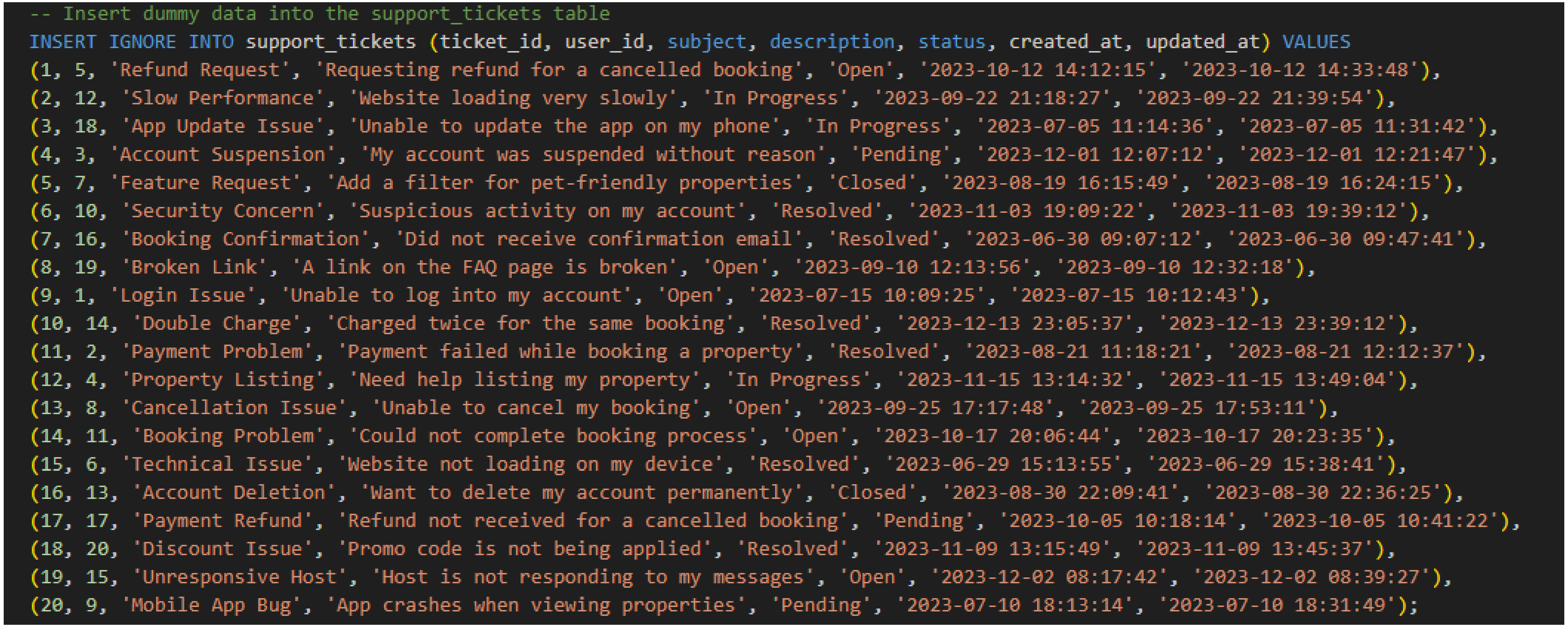
```
-- Insert dummy data into the user_message table
INSERT IGNORE INTO user_message (id, sender_id, receiver_id, message_content, status, sent_at_timestamp) VALUES
(1, 5, 6, 'Can we reschedule our meeting?', 'Sent', '2023-09-03 12:14:23'),
(2, 6, 5, 'Sure, what time works for you?', 'Read', '2023-09-03 12:19:41'),
(3, 7, 8, 'I loved your recent post!', 'Sent', '2023-11-22 13:05:37'),
(4, 8, 7, 'Thank you so much!', 'Read', '2023-11-22 13:15:29'),
(5, 17, 18, 'Please share the presentation.', 'Sent', '2023-08-09 18:07:13'),
(6, 18, 17, 'I will send it by EOD.', 'Read', '2023-08-09 18:29:48'),
(7, 1, 2, 'Hello, how are you?', 'Sent', '2023-07-01 10:12:47'),
(8, 2, 1, 'I am good, thanks!', 'Read', '2023-07-01 10:19:33'),
(9, 15, 16, 'Are you free this weekend?', 'Sent', '2023-10-08 17:09:25'),
(10, 16, 15, 'Yes, let’s plan something.', 'Read', '2023-10-08 17:23:54'),
(11, 13, 14, 'I have sent you the proposal.', 'Sent', '2023-12-07 16:11:32'),
(12, 14, 13, 'Thanks, I will go through it.', 'Read', '2023-12-07 16:28:49'),
(13, 19, 20, 'Can you assist with the report?', 'Sent', '2023-09-10 19:06:15'),
(14, 20, 19, 'Sure, send me the details.', 'Read', '2023-09-10 19:22:14'),
(15, 11, 12, 'Let’s catch up soon.', 'Sent', '2023-06-06 15:08:53'),
(16, 12, 11, 'Sure, let me know when.', 'Read', '2023-06-06 15:25:41'),
(17, 9, 10, 'Please check the document I sent.', 'Sent', '2023-08-15 14:07:37'),
(18, 10, 9, 'Got it, will review and revert.', 'Read', '2023-08-15 14:29:52'),
(19, 3, 4, 'Are you available for a call?', 'Sent', '2023-11-02 11:13:27'),
(20, 4, 3, 'Yes, let me know when.', 'Read', '2023-11-02 11:28:15');
```

Dummy data for the user_notification table



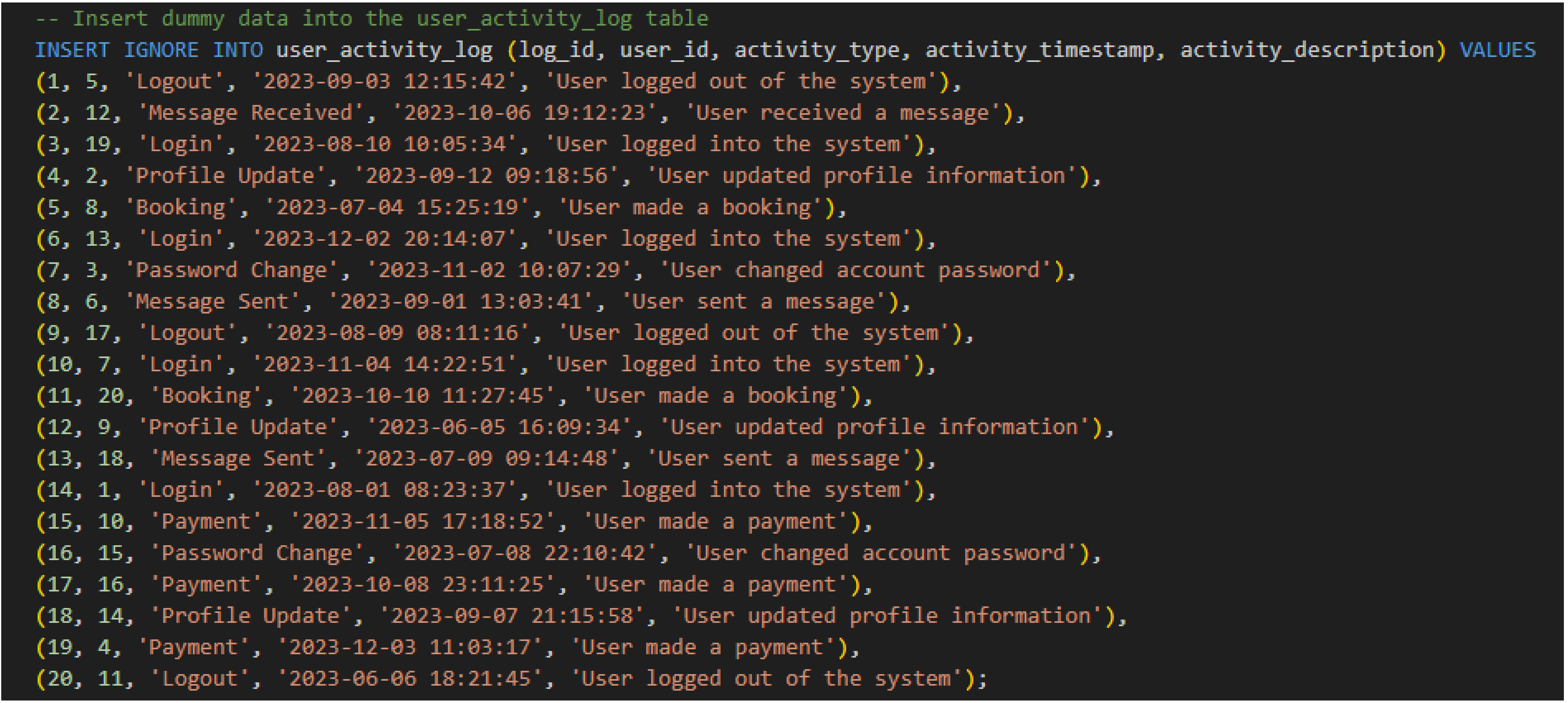
```sql
-- Insert dummy data into the user_notification table
INSERT IGNORE INTO user_notification (notification_id, user_id, notification_type, notification_content, sent_at, is_read) VALUES
(1, 5, 'Refund Processed', 'Your refund has been processed.', '2023-10-14 14:28:32', 1),
(2, 10, 'Promo Alert', 'A new promo code is available.', '2023-11-03 19:33:15', 0),
(3, 17, 'Support Ticket', 'Your support ticket has been updated.', '2023-12-01 10:47:28', 0),
(4, 8, 'Cancellation Confirmed', 'Your booking cancellation is confirmed.', '2023-08-25 17:52:14', 1),
(5, 15, 'Feedback Request', 'Please rate your recent booking.', '2023-09-18 08:49:37', 0),
(6, 4, 'Reminder', 'Your booking starts tomorrow.', '2023-10-22 13:19:43', 1),
(7, 6, 'Security Alert', 'Unusual activity detected on your account.', '2023-11-12 15:42:57', 0),
(8, 14, 'Booking Update', 'Your booking status has changed.', '2023-12-15 23:12:36', 1),
(9, 3, 'Ticket Update', 'Your support ticket has been resolved.', '2023-10-05 12:43:11', 0),
(10, 19, 'Discount Offer', 'Special discounts for holiday bookings.', '2023-09-29 12:16:22', 1),
(11, 1, 'Booking Update', 'Your booking has been confirmed.', '2023-08-11 10:13:49', 1),
(12, 18, 'App Update', 'A new version of the app is available.', '2023-09-20 11:29:07', 1),
(13, 11, 'Payment Failure', 'Your payment could not be processed.', '2023-07-07 20:49:25', 1),
(14, 9, 'Booking Reminder', 'Your booking starts in 2 days.', '2023-10-03 18:17:39', 1),
(15, 13, 'Maintenance Notice', 'Our site will be down for maintenance.', '2023-09-24 22:27:14', 0),
(16, 7, 'New Feature', 'Check out our new search filters.', '2023-10-18 16:25:08', 1),
(17, 16, 'Password Change', 'Your password was changed successfully.', '2023-11-09 09:14:29', 1),
(18, 12, 'Account Update', 'Your account details have been updated.', '2023-12-02 21:18:43', 1),
(19, 2, 'Payment Received', 'We have received your payment.', '2023-09-17 11:34:12', 1),
(20, 20, 'Booking Reminder', 'Your booking starts in 3 days.', '2023-12-20 13:37:55', 1);
```

Dummy data for the support_tickets table



```sql
-- Insert dummy data into the support_tickets table
INSERT IGNORE INTO support_tickets (ticket_id, user_id, subject, description, status, created_at, updated_at) VALUES
(1, 5, 'Refund Request', 'Requesting refund for a cancelled booking', 'Open', '2023-10-12 14:12:15', '2023-10-12 14:33:48'),
(2, 12, 'Slow Performance', 'Website loading very slowly', 'In Progress', '2023-09-22 21:18:27', '2023-09-22 21:39:54'),
(3, 18, 'App Update Issue', 'Unable to update the app on my phone', 'In Progress', '2023-07-05 11:14:36', '2023-07-05 11:31:42'),
(4, 3, 'Account Suspension', 'My account was suspended without reason', 'Pending', '2023-12-01 12:07:12', '2023-12-01 12:21:47'),
(5, 7, 'Feature Request', 'Add a filter for pet-friendly properties', 'Closed', '2023-08-19 16:15:49', '2023-08-19 16:24:15'),
(6, 10, 'Security Concern', 'Suspicious activity on my account', 'Resolved', '2023-11-03 19:09:22', '2023-11-03 19:39:12'),
(7, 16, 'Booking Confirmation', 'Did not receive confirmation email', 'Resolved', '2023-06-30 09:07:12', '2023-06-30 09:47:41'),
(8, 19, 'Broken Link', 'A link on the FAQ page is broken', 'Open', '2023-09-10 12:13:56', '2023-09-10 12:32:18'),
(9, 1, 'Login Issue', 'Unable to log into my account', 'Open', '2023-07-15 10:09:25', '2023-07-15 10:12:43'),
(10, 14, 'Double Charge', 'Charged twice for the same booking', 'Resolved', '2023-12-13 23:05:37', '2023-12-13 23:39:12'),
(11, 2, 'Payment Problem', 'Payment failed while booking a property', 'Resolved', '2023-08-21 11:18:21', '2023-08-21 12:12:37'),
(12, 4, 'Property Listing', 'Need help listing my property', 'In Progress', '2023-11-15 13:14:32', '2023-11-15 13:49:04'),
(13, 8, 'Cancellation Issue', 'Unable to cancel my booking', 'Open', '2023-09-25 17:17:48', '2023-09-25 17:53:11'),
(14, 11, 'Booking Problem', 'Could not complete booking process', 'Open', '2023-10-17 20:06:44', '2023-10-17 20:23:35'),
(15, 6, 'Technical Issue', 'Website not loading on my device', 'Resolved', '2023-06-29 15:13:55', '2023-06-29 15:38:41'),
(16, 13, 'Account Deletion', 'Want to delete my account permanently', 'Closed', '2023-08-30 22:09:41', '2023-08-30 22:36:25'),
(17, 17, 'Payment Refund', 'Refund not received for a cancelled booking', 'Pending', '2023-10-05 10:18:14', '2023-10-05 10:41:22'),
(18, 20, 'Discount Issue', 'Promo code is not being applied', 'Resolved', '2023-11-09 13:15:49', '2023-11-09 13:45:37'),
(19, 15, 'Unresponsive Host', 'Host is not responding to my messages', 'Open', '2023-12-02 08:17:42', '2023-12-02 08:39:27'),
(20, 9, 'Mobile App Bug', 'App crashes when viewing properties', 'Pending', '2023-07-10 18:13:14', '2023-07-10 18:31:49');
```

Dummy data for the user_activity_log table



```
-- Insert dummy data into the user_activity_log table
INSERT IGNORE INTO user_activity_log (log_id, user_id, activity_type, activity_timestamp, activity_description) VALUES
(1, 5, 'Logout', '2023-09-03 12:15:42', 'User logged out of the system'),
(2, 12, 'Message Received', '2023-10-06 19:12:23', 'User received a message'),
(3, 19, 'Login', '2023-08-10 10:05:34', 'User logged into the system'),
(4, 2, 'Profile Update', '2023-09-12 09:18:56', 'User updated profile information'),
(5, 8, 'Booking', '2023-07-04 15:25:19', 'User made a booking'),
(6, 13, 'Login', '2023-12-02 20:14:07', 'User logged into the system'),
(7, 3, 'Password Change', '2023-11-02 10:07:29', 'User changed account password'),
(8, 6, 'Message Sent', '2023-09-01 13:03:41', 'User sent a message'),
(9, 17, 'Logout', '2023-08-09 08:11:16', 'User logged out of the system'),
(10, 7, 'Login', '2023-11-04 14:22:51', 'User logged into the system'),
(11, 20, 'Booking', '2023-10-10 11:27:45', 'User made a booking'),
(12, 9, 'Profile Update', '2023-06-05 16:09:34', 'User updated profile information'),
(13, 18, 'Message Sent', '2023-07-09 09:14:48', 'User sent a message'),
(14, 1, 'Login', '2023-08-01 08:23:37', 'User logged into the system'),
(15, 10, 'Payment', '2023-11-05 17:18:52', 'User made a payment'),
(16, 15, 'Password Change', '2023-07-08 22:10:42', 'User changed account password'),
(17, 16, 'Payment', '2023-10-08 23:11:25', 'User made a payment'),
(18, 14, 'Profile Update', '2023-09-07 21:15:58', 'User updated profile information'),
(19, 4, 'Payment', '2023-12-03 11:03:17', 'User made a payment'),
(20, 11, 'Logout', '2023-06-06 18:21:45', 'User logged out of the system');
```