



SQL PROJECT

TRAVEL ITINERARY PLANNER

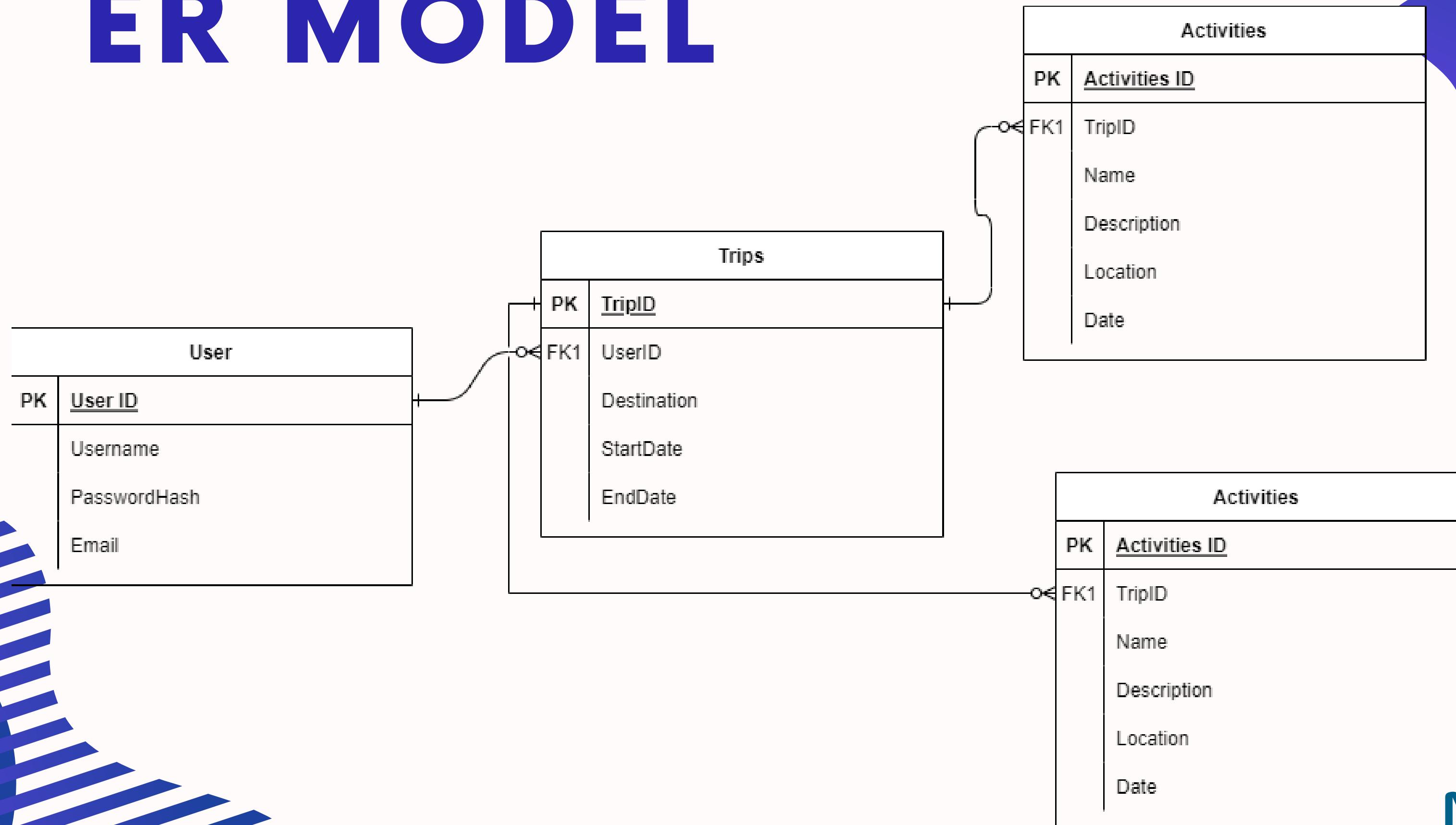
DANISH DIVEKAR

INTRODUCTION

This innovative tool
simplifies travel planning
with the power of SQL,
making trip organization
efficient and accessible
to all.



ER MODEL



DATABASE: TRAVEL_ITINERARY_PLANNER

TABLES:

- USERS
- TRIPS
- ACTIVITIES
- FLIGHTS

DATABASE DESIGN

SYNTAX: SHOW TABLES;

SYNTAX: DESC USERS;

```
MariaDB [travel_itinerary_planner]> DESC users;
```

Field	Type	Null	Key	Default	Extra
UserID	int(11)	NO	PRI	NULL	auto_increment
Name	varchar(255)	NO		NULL	
Username	varchar(255)	NO		NULL	
PasswordHash	varchar(255)	NO		NULL	
Email	varchar(255)	NO		NULL	

```
5 rows in set (0.038 sec)
```

#Structure of Table

SYNTAX: DESC TRIPS;

```
MariaDB [travel_itinerary_planner]> DESC trips;
```

Field	Type	Null	Key	Default	Extra
TripID	int(11)	NO	PRI	NULL	auto_increment
UserID	int(11)	YES	MUL	NULL	
Destination	varchar(255)	NO		NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	

```
5 rows in set (0.043 sec)
```

SYNTAX: DESC ACTIVITIES;

```
MariaDB [travel_itinerary_planner]> DESC activities;
```

Field	Type	Null	Key	Default	Extra
ActivityID	int(11)	NO	PRI	NULL	auto_increment
TripID	int(11)	YES	MUL	NULL	
Name	varchar(255)	NO		NULL	
Description	text	YES		NULL	
Location	varchar(255)	YES		NULL	
Date	date	YES		NULL	

```
6 rows in set (0.046 sec)
```

SYNTAX: DESC FLIGHTS;

```
MariaDB [travel_itinerary_planner]> DESC flights;
+-----+-----+-----+-----+-----+
| Field          | Type       | Null | Key  | Default | Extra           |
+-----+-----+-----+-----+-----+
| FlightID       | int(11)    | NO   | PRI  | NULL    | auto_increment |
| TripID         | int(11)    | YES  | MUL  | NULL    |                 |
| FlightNumber   | varchar(20) | YES  |       | NULL    |                 |
| DepartureAirport | varchar(3) | YES  |       | NULL    |                 |
| ArrivalAirport  | varchar(3) | YES  |       | NULL    |                 |
| DepartureTime   | datetime   | YES  |       | NULL    |                 |
| ArrivalTime     | datetime   | YES  |       | NULL    |                 |
+-----+-----+-----+-----+-----+
7 rows in set (0.044 sec)
```

SYNTAX: SELECT * FROM USERS;

- SELECT is a clause used to fetch data from a table

MariaDB [travel_itinerary_planner]> SELECT * FROM users;				
UserID	Name	Username	PasswordHash	Email
101	Misaad Kasmi	Misaad22	Misaad123	kasmimisaad@gmail.com
102	Ahad Gadbade	AhadG05	Ahad2005	ahadgadbade@gmail.com
103	Neha Shinde	Nshinde445	neha445	nehashinde@gmail.com
104	Raj Patil	Rpatil586	Rajshinde5856	rajpatil5856@gmail.com
105	Monkey D. Luffy	Luffy0505	Luffy@05	monkeydluffy@gmail.com
106	Naruto Uzumaki	Naruto10	narutohina	narutouzumaki@gmail.com
107	Ali Shiakh	ashaikh95	ashiakh95	alishaikh95@gmail.com
108	Ayaan Khan	Ayaankhan0	Ayaan123	Ayaankhan023@gmail.com
109	Hamzah Patel	hamzah1947	hamzah445	hamzahpatel1947@gmail.com
110	Sana Shaikh	Sana259	sana25995	sanashaikh259@gmail.com
111	Fardeen Khan	fardeekhan736	fardeen7366	fardeen736@gmail.com
112	Zara Qureshi	Qureshi2203	Zara22033	zaraqureshi2203@gmail.com
113	Sana Shaikh	Sana259	sana25995	sanashaikh259@gmail.com
114	John lee	jlee246	jlee@22246	jlee22246@gmail.com
115	John Wilson	Johnwilsonxx	jwilson967	johnwilson967@gmail.com
116	Michael Brown	brown858	micheal@8518	michealbrown858@gmail.com
117	Emma Johnson	ejohnson1823	ejohn@183	emmajohnson183@gmail.com
118	John Johnson	jj74712	john@747	johnjohnson47@gmail.com
119	Kalpana Chaudhry	kalpanac229	kalpana@229	kalpanachaudhary229@gmail.com
120	Chiranjivi Mathur	chiranjivimathur11	chiran@111	chiranjivimathur111@gmail.com
121	Shakti Agate	shaktimanal	shakti@agate	agateshakti223@gmail.com
122	Abhiram Shetty	shetty22	shetty@#%	abhiramshetty223@gmail.com
123	Nima Oommen	oomen880	oomen@889	oomennima880@gmail.com
124	Ankur Garde	garde924	ankur123	ankurgarde924@gmail.com
125	Jaza Tabatabai	jaza517	tabara@179	jazatabatai5179@gmail.com
126	Boulus Kazi	boulus7490	kazi@74	bouluskazi749@gmail.com
127	Umaira Habibi	umairahabibi10	habibi@10	habibiumaira100@gmail.com
128	Matsumoto Minori	minori9099	minori@999	matsumotominro9090@gmail.com
129	Kato Katsuro	katokatsuro75	katokat1	katokatsuro75@gmail.com
130	Uno Miwa	unomiwa5949	password@	miwauno5949@gmail.com
131	Geum Myung-Ki	myungki3692	geum@333	geummyungki@gmail.com

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SYNTAX: SELECT * FROM TRIPS;

```
MariaDB [travel_itinerary_planner]> SELECT * FROM trips;
```

TripID	UserID	Destination	StartDate	EndDate
1	101	Himachal Pradesh	2023-02-18	2023-02-23
2	101	New Delhi	2023-03-19	2023-03-26
3	102	Karnataka	2023-05-05	2023-05-11
4	103	Andaman & Nicobar Island	2023-01-18	2023-01-21
5	109	Kerala	2023-03-12	2023-03-17
6	111	Jammu & Kashmir	2023-04-14	2023-04-17
7	114	Rajasthan	2023-05-23	2023-05-27
8	117	Goa	2023-02-13	2023-02-18
9	121	Gujrat	2023-11-28	2023-12-04
10	122	Maharashtra	2023-11-13	2023-11-18
11	125	Japan	2023-09-19	2023-09-25
12	126	South Korea	2023-08-13	2023-08-20
13	129	UAE	2023-09-24	2023-09-29
14	133	Punjab	2023-10-09	2023-10-15

```
14 rows in set (0.002 sec)
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SYNTAX: SELECT * FROM ACTIVITIES;

ActivityID	TripID	Name	Description	Location	Date
29	1	Visit Manali	Locallity	Himachal Pradesh	2023-02-18
30	1	Visit Shimla	Locallity	Himachal Pradesh	2023-02-23
31	2	Visit India	Monument	New Delhi	2023-03-19
32	2	Visit Red Fort	Fortress	New Delhi	2023-02-26
33	3	Visit Badami Caves	Historical Place	Karnataka	2023-05-05
34	3	Visit jog Falls	Tourist Attraction	Karnataka	2023-05-11
35	4	Visit Cellular Jail	Historical Place	Andaman & Nicobar Island	2023-01-18
36	4	Visit Elephant Beach	Beach	Andaman & Nicobar Island	2023-01-21
37	5	Visit Periyar National Park	National Park	Kerala	2023-03-12
38	5	Visit Kochi	Locality	Kerala	2023-03-17
39	6	House-Boat Stay at Dal Lake	Tourist Attraction	Jammu & Kashmir	2023-04-14
40	6	Visit Tulip Garden	Garden	Jammu & Kashmir	2023-04-17
41	7	Visit Hawa Mahal	Castle	Rajasthan	2023-05-23
42	7	Visit Jaisalmer Fort	Fortress	Rajasthan	2023-05-27
43	8	Visit Candolim Beach	Beach	Goa	2023-02-13
44	8	Visit Aguada Fort	Fortress	Goa	2023-03-18
45	9	Visit Statue of Unity	Monument	Gujrat	2023-11-28
46	9	Visit Shree Somnath Jyotirling temple	Fortress	Gujrat	2023-12-04
47	10	Visit CSMT	Fortress	Train Station	2023-11-13
48	10	Visit Gate of Way India	Historical Place	Maharashtra	2023-11-18
49	11	Visit Tokyo	Locality	Japan	2023-09-19
50	11	Visit Kyoto	Locality	Japan	2023-09-25
51	12	Visit Seoul	Locality	South Korea	2023-08-13
52	12	Visit Gyeongbokgung Palace	Cultral Landmark	South Korea	2023-08-20
53	13	Visit Burj Khalifa	Locality	UAE	2023-09-24
54	13	Visit Dubai Mall	Locality	UAE	2023-09-29
55	14	Visit Sri Harmandir Sahib	Gurdwara	Punjab	2023-10-24
56	14	Visit Jallianwala Bagh	Memorial Park	Punjab	2023-10-15

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SYNTAX: SELECT * FROM FLIGHTS;

```
MariaDB [travel_itinerary_planner]> SELECT * FROM flights;
```

FlightID	TripID	FlightNumber	DepartureAirport	ArrivalAirport	DepartureTime	ArrivalTime
1	1	LQ227	MUM	DEL	0000-00-00 00:00:00	0000-00-00 00:00:00
2	2	SP984	MUM	DEL	0000-00-00 00:00:00	0000-00-00 00:00:00
3	3	ZL773	MUM	BLR	0000-00-00 00:00:00	0000-00-00 00:00:00
4	4	XH140	MUM	IXZ	0000-00-00 00:00:00	0000-00-00 00:00:00
5	5	HG106	MUM	COX	0000-00-00 00:00:00	0000-00-00 00:00:00
6	6	HG106	MUM	IXJ	0000-00-00 00:00:00	0000-00-00 00:00:00
7	7	LF851	MUM	JDH	2011-10-06 00:00:00	0000-00-00 00:00:00
8	8	SN701	MUM	GOI	0000-00-00 00:00:00	0000-00-00 00:00:00
9	9	EN664	MUM	AMD	0000-00-00 00:00:00	0000-00-00 00:00:00
10	10	QK284	DEL	MUM	0000-00-00 00:00:00	2017-11-03 00:00:00
11	11	FY566	MUM	HND	0000-00-00 00:00:00	0000-00-00 00:00:00
12	12	WH739	MUM	ICN	0000-00-00 00:00:00	0000-00-00 00:00:00
13	13	DJ875	MUM	DXB	0000-00-00 00:00:00	0000-00-00 00:00:00
14	14	QH617	MUM	LUH	2014-01-26 00:00:00	0000-00-00 00:00:00

```
14 rows in set (0.004 sec)
```

F L I G H T S D E T A I L S

**SYNTAX: UPDATE users SET
PASSWORDHASH="Misaad@123" WHERE UserID=101;**

- UPDATE IS A CLAUSE USED TO MODIFY EXISTING RECORD IN A DATABASE TABLE

Database changed.

```
MariaDB [travel_itinerary_planner]> select * from users;
```

Database changed.				
UserID	Name	Username	PasswordHash	Email
101	Misaad Kasmi	Misaad22	Misaad123	kasmimisaad@gmail.com
102	Ahad Gadbade	AhadG05	Ahad2005	ahadgadbade@gmail.com
103	Neha Shinde	Nshinde445	neha445	nehashinde@gmail.com
104	Raj Patil	Rpatil586	Rajshinde5856	rajpatil5856@gmail.com
105	Monkey D. Luffy	Luffy0505	Luffy@05	monkeydluffy@gmail.com
106	Naruto Uzumaki	Naruto10	narutohina	narutouzumaki@gmail.com
107	Ali Shiakh	ashaikh95	ashiakh95	alishaikh95@gmail.com
108	Ayaan Khan	Ayaankhan0	Ayaan123	Ayaankhan023@gmail.com
109	Hamzah Patel	hamzah1947	hamzah445	hamzahpatel1947@gmail.com
110	Sana Shaikh	Sana259	sana25995	sanashaikh259@gmail.com

#BEFORE UPDATE

AFTER UPDATE

```
MariaDB [travel_itinerary_planner]> UPDATE users SET PASSWORDHASH="Misaad@123" WHERE UserID=101;
Query OK, 1 row affected (0.034 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [travel_itinerary_planner]> select * from users;
```

UserID	Name	Username	PasswordHash	Email
101	Misaad Kasmi	Misaad22	Misaad@123	kasmimisaad@gmail.com
102	Ahad Gadbade	AhadG05	Ahad2005	ahadgadbade@gmail.com
103	Neha Shinde	Nshinde445	neha445	nehashinde@gmail.com

SYNTAX: ALTER TABLE USERS RENAME USER_DETAILS;

- ALTER IS A KEYWORD TO MODIFY THE STRUCTURE OF AN EXISTING DATABASE OBJECT SUCH AS TABLE, VIEW OR INDEX

```
MariaDB [travel_itinerary_planner]> ALTER users RENAME user_details
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'users RENAME user_details' at line 1
MariaDB [travel_itinerary_planner]> ALTER TABLE users RENAME user_details;
Query OK, 0 rows affected (0.041 sec)

MariaDB [travel_itinerary_planner]> SELEC * FROM user_details;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELEC * FROM user_details' at line 1
MariaDB [travel_itinerary_planner]> SELECT * FROM user_details;
+-----+-----+-----+-----+
| UserID | Name          | Username      | PasswordHash   | Email           |
+-----+-----+-----+-----+
| 101   | Misaad Kasmi  | Misaad22     | Misaad@123    | kasmimisaad@gmail.com
| 102   | Ahad Gadbade  | AhadG05      | Ahad2005      | ahadgadbade@gmail.com
| 103   | Neha Shinde   | Nshinde445   | neha445       | nehashinde@gmail.com
| 104   | Raj Patil     | Rpatil586    | Rajshinde5856 | rajpatil5856@gmail.com
| 105   | Monkey D. Luffy | Luffy0505    | Luffy@05      | monkeydluffy@gmail.com
```

SYNTAX: ALTER TABLE USER_DETAILS CHANGE EMAIL EMAILID VARCHAR(255);

```
MariaDB [travel_itinerary_planner]> ALTER TABLE user_details change Email EmailID varchar(255);
Query OK, 0 rows affected (0.070 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
MariaDB [travel_itinerary_planner]> desc user_details;
```

Field	Type	Null	Key	Default	Extra
UserID	int(11)	NO	PRI	NULL	auto_increment
Name	varchar(255)	NO		NULL	
Username	varchar(255)	NO		NULL	
PasswordHash	varchar(255)	NO		NULL	
EmailID	varchar(255)	YES		NULL	

```
5 rows in set (0.045 sec)
```

SYNTAX: ALTER TABLE FLIGHTS ADD UNIQUE KEY FLIGHT NUMBER;

- UNIQUE CONSTRAINT OR UNIQUE KEY IS A TRYPE OF CONSTRAINT USED TO ENFORCE UNIQUENESS ON THE VALUES OF ONE OR MORE COLUMNS IN A TABLE

```
MariaDB [travel_itinerary_planner]> DESC FLIGHTS;
+-----+-----+-----+-----+-----+
| Field          | Type           | Null | Key  | Default | Extra          |
+-----+-----+-----+-----+-----+
| FlightID       | int(11)        | NO   | PRI  | NULL    | auto_increment |
| TripID         | int(11)        | YES  | MUL  | NULL    |                |
| FlightNumber   | varchar(20)    | YES  | UNI  | NULL    |                |
| DepartureAirport | varchar(3)     | YES  |       | NULL    |                |
| ArrivalAirport  | varchar(3)     | YES  |       | NULL    |                |
| DepartureTime   | datetime        | YES  |       | NULL    |                |
| ArrivalTime     | datetime        | YES  |       | NULL    |                |
+-----+-----+-----+-----+-----+
7 rows in set (0.034 sec)
```

SYNTAX: SELECT * FROM user_details WHERE NAME LIKE 'N%';

- LIKE OPERATOR IS USED IN THE WHERE CLAUSE OF A QUERY TO PERFORM PATTERN MATCHING ON A COLUMN VALUES. IT ALLOWS TO SEARCH ROWS IN A TABLE THAT MATCH SPECIFIC PATTERN OR SUBSTRING

```
MariaDB [travel_itinerary_planner]> SELECT * FROM user_details WHERE NAME LIKE 'N%';
+-----+-----+-----+-----+
| UserID | Name          | Username     | PasswordHash | EmailID           |
+-----+-----+-----+-----+
|   103 | Neha Shinde    | Nshinde445   | neha445      | nehashinde@gmail.com |
|   106 | Naruto Uzumaki | Naruto10     | narutohina   | narutouzumaki@gmail.com |
|   123 | Nima Oommen    | oomen880     | oomen@889    | oomennima880@gmail.com |
+-----+-----+-----+-----+
3 rows in set (0.007 sec)
```

SYNTAX: `SELECT * FROM USER_DETAILS LEFT JOIN TRIPS ON USER_DETAILS.USERID=TRIPS.USERID;`

THE "LEFT JOIN" COMBINES ROWS FROM TWO TABLES BASED ON A COMMON KEY, RETRIEVING ALL RECORDS FROM THE LEFT TABLE AND MATCHING ONES FROM THE RIGHT.



USER DETAILS

```
[anner]> SELECT * FROM users;
```

Username	PasswordHash	Email
Misaad22	Misaad123	kasmimisa
AhadG05	Ahad2005	ahadgadba
Nshinde445	neha445	nehashind
Rpatil586	Rajshinde5856	rajpatil5
Luffy0505	Luffy@05	monkeydlu
Naruto10	narutohina	narutouzu
ashaikh95	ashaikh95	alishaikh
Ayaankhan0	Ayaan123	Ayaankhan
hamzah1947	hamzah445	hamzahpat
Sana259	sana25995	sanashaik
fardeekhan736	fardeen7366	fardeen73
Qureshi2203	Zara22033	zaraquires
Sana259	sana25995	sanashaik
jlee246	jlee@22246	jlee2246@
Johnwilsonxx	jwilson967	johnwilso
brown858	micheal@8518	michealbr
ejohnson1823	ejohn@183	emmajohns
jj74712	john@747	johnjohns
kalpanac229	kalpana@229	kalpanach
chiranjivimathur11	chiran@111	chiranjiv
shaktimana1	shakti@agate	agateshak
shetty22	shetty@#%	abhiramsh
oomen880	oomen@889	oomennima
garde924	ankur123	ankurgard
jaza517	tabara@179	jazatabat
boulus7490	kazi@74	bouluskaz
umairahabibi10	habibi@10	habibiuma
minori9099	minori@999	matsumoto
katokatsuro75	katokat1	katokatsu
unomiwa5949	password@	miwauno59
myungki3692	geum@333	geummyung

TRIP DETAILS

TripID	Name	Description	Location
1	Visit Manali	Locallity	Himachal Pradesh
1	Visit Shimla	Locallity	Himachal Pradesh
2	Visit India	Monument	New Delhi
2	Visit Red Fort	Fortress	New Delhi
3	Visit Badami Caves	Historical Place	Karnataka
3	Visit jog Falls	Tourist Attraction	Karnataka
4	Visit Cellular Jail	Historical Place	Andaman & Nicoba
4	Visit Elephant Beach	Beach	Andaman & Nicoba
5	Visit Periyar National Park	National Park	Kerala
5	Visit Kochi	Locality	Kerala
6	House-Boat Stay at Dal Lake	Tourist Attraction	Jammu & Kashmir
6	Visit Tulip Garden	Garden	Jammu & Kashmir
7	Visit Hawa Mahal	Castle	Rajasthan
7	Visit Jaisalmer Fort	Fortress	Rajasthan
8	Visit Candolim Beach	Beach	Goa
8	Visit Aguada Fort	Fortress	Goa
9	Visit Statue of Unity	Monument	Gujrat
9	Visit Shree Somnath Jyotirling temple	Fortress	Gujrat
10	Visit CSMT	Fortress	Train Station
10	Visit Gate of Way India	Historical Place	Maharashtra
11	Visit Tokyo	Locality	Japan
11	Visit Kyoto	Locality	Japan
12	Visit Seoul	Locality	South Korea
12	Visit Gyeongbokgung Palace	Cultral Landmark	South Korea
13	Visit Burj Khalifa	Locality	UAE
13	Visit Dubai Mall	Locality	UAE
14	Visit Sri Harmandir Sahib	Gurdwara	Punjab
14	Visit Jallianwala Bagh	Memorial Park	Punjab

(0.001 sec)

AFTER LEFT JOIN

MariaDB [travel_itinerary_planner]> SELECT * FROM user_details LEFT JOIN trips ON user_details.userID=trips.userID;						
UserID	Name	Username	PasswordHash	EmailID	TripID	UserID
StartDate	EndDate				Destination	
101	Misaad Kasmi	Misaad22	Misaad@123	kasmimisaad@gmail.com	1	101
2023-02-18	2023-02-23				Himachal Pradesh	
101	Misaad Kasmi	Misaad22	Misaad@123	kasmimisaad@gmail.com	2	101
2023-03-19	2023-03-26				New Delhi	
102	Ahad Gadbade	AhadG05	Ahad2005	ahadgadbade@gmail.com	3	102
2023-05-05	2023-05-11				Karnataka	
103	Neha Shinde	Nshinde445	neha445	nehashinde@gmail.com	4	103
2023-01-18	2023-01-21				Andaman & Nicobar Island	
104	Raj Patil	Rpatil586	Rajshinde5856	rajpatil5856@gmail.com	NULL	NULL
NULL	NULL					
105	Monkey D. Luffy	Luffy0505	Luffy@05	monkeydluffy@gmail.com	NULL	NULL
NULL	NULL					
106	Naruto Uzumaki	Naruto10	narutohina	narutouzumaki@gmail.com	NULL	NULL
NULL	NULL					
107	Ali Shiakh	ashaikh95	ashiakh95	alishaikh95@gmail.com	NULL	NULL
NULL	NULL					
108	Ayaan Khan	Ayaankhan0	Ayaan123	Ayaankhan023@gmail.com	NULL	NULL
NULL	NULL					
109	Hamzah Patel	hamzah1947	hamzah445	hamzahpatel1947@gmail.com	5	109
2023-03-12	2023-03-17				Kerala	
110	Sana Shaikh	Sana259	sana25995	sanashaikh259@gmail.com	NULL	NULL
NULL	NULL					
111	Fardeen Khan	fardeekhan736	fardeen7366	fardeen736@gmail.com	6	111
2023-04-14	2023-04-17				Jammu & Kashmir	
112	Zara Qureshi	Qureshi2203	Zara22033	zaraqureshi2203@gmail.com	NULL	NULL
NULL	NULL					

