



Excel to ClickHouse Data Management System

■■■■■■■:	Excel to ClickHouse Data Manager
■■■■■■■■■■■■■■■:	20/07/2025 11:52:20
■■■■■■■■■■■:	1.0
■■■■■■■■■■■:	AI Assistant
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1. ■■■■■■■■■■

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	4	
	3	

[illegible]

-  SQL
- Comment 
-  Database Normalization
- 
-  Primary Key  Indexing 
-  Data Type 

2.

2.1 bookings -

Field Name	Data Type	Comment
booking_id	UInt32	(Primary Key)
booking_date	Nullable(String)	
booking_time	Nullable(String)	
datetime_display	Nullable(String)	
receipt_number	Nullable(String)	
booking_channel	Nullable(String)	
agency_id	Nullable(Float64)	
booking_type	Nullable(String)	
customer_id	Nullable(Float64)	
customer_name	Nullable(String)	
phone_number	Nullable(String)	
booking_note	Nullable(String)	
created_by	Nullable(String)	
created_at	DateTime	

2.2 ■■■■ services - ■■■■■■■■■■

Field Name	Data Type	Comment
booking_id	UInt32	(Foreign Key)
service_item	Nullable(String)	
service_duration	Nullable(Float64)	()
service_price	Nullable(UInt16)	
service_discount	Nullable(Float64)	
total_items	Nullable(Float64)	
service_cost	Nullable(Float64)	

2.3 payments -

Field Name	Data Type	Comment
booking_id	UInt32	(Foreign Key)
total_price	Nullable(Float64)	
total_discount	Nullable(Float64)	
price_after_discount	Nullable(Float64)	
service_charge	Nullable(Float64)	
additional_charge	Nullable(Float64)	
price_before_vat	Nullable(String)	VAT
vat_amount	Nullable(String)	VAT 7%
total_tip	Nullable(Float64)	
agency_commission	Nullable(UInt8)	
net_payment	Nullable(Float64)	
cash_payment	Nullable(Float64)	
transfer_payment	Nullable(Float64)	
credit_card_payment	Nullable(Float64)	
agency_payment	Nullable(Float64)	
package_payment	Nullable(Float64)	
ewallet_payment	Nullable(Float64)	E-Wallet
ewallet_type	Nullable(String)	E-Wallet
payment_note	Nullable(String)	

2.4 a staff_assignments -

Field Name	Data Type	Comment
booking_id	UInt32	(Foreign Key)
staff_sequence	UInt8	(1, 2)
staff_name	Nullable(String)	
staff_fee	Nullable(Float64)	
staff_tip	Nullable(Float64)	
request_fee	Nullable(Float64)	

3.

5.

6. ■■■■■■■■■■ SQL Query

6.1 ■■■■■■■■■■■■■■■■■■■■■■

```
SELECT COUNT(*) as total_bookings FROM bookings;
```

6.2 ■■■■■■■■■■■■■■■■

```
SELECT booking_date, COUNT(*) as bookings_count, SUM(net_payment)
as total_revenue FROM bookings b JOIN payments p ON b.booking_id =
p.booking_id GROUP BY booking_date ORDER BY booking_date;
```

6.3 ■■■■■■■■■■■■■■■■

```
SELECT service_item, COUNT(*) as usage_count, AVG(service_price) as
avg_price FROM services WHERE service_item IS NOT NULL GROUP BY
service_item ORDER BY usage_count DESC LIMIT 10;
```


7. ■■■■■■■■■■

1. ████████████████████: python main.py --create-tables
2. ████████████████████ sample.xlsx: python main.py --upload-data
3. ████████████████████ Excel ████████: python main.py --upload-only filename.xlsx
4. ████████████████████: python main.py --all
5. ████████████████████: python main.py --info