



BCNF or not ?

For relation Customer_details, following are functional dependencies:-
Functional Dependencies BCNF? Reason

Verification_ID Name BCNF Verification_ID is super-key (key).
Verification_ID Email BCNF Verification_ID is super-key (key).
Verification_ID age BCNF Verification_ID is super-key (key).
Verification_ID gender BCNF Verification_ID is super-key (key).
Verification_ID Address BCNF Verification_ID is super-key (key).
Verification_ID Budget BCNF Verification_ID is super-key (key).
Verification_ID City BCNF Verification_ID is super-key (key).
Verification_ID Type_of_customer BCNF Verification_ID is super-key (key).

For relation login_details, following are functional dependencies:-
Functional Dependencies BCNF? Reason

{Login_ID, Verification_ID} Password BCNF {Login_ID, Verification_ID} is super-key (key).
{Login_ID, Verification_ID} Contact_no BCNF {Login_ID, Verification_ID} is super-key (key).

For relation property, following are functional dependencies:-
Functional Dependencies BCNF? Reason

Property_ID Property_name BCNF Property_ID is super-key (key).
Property_ID Location BCNF Property_ID is super-key (key).
Property_ID Owner_ID BCNF Property_ID is super-key (key).
Property_ID Construction_status BCNF Property_ID is super-key (key).
Property_ID Booking_status BCNF Property_ID is super-key (key).

For relation booking_details, following are functional dependencies:-
Functional Dependencies BCNF? Reason

Booking_ID Property_ID BCNF Booking_ID is super-key (key).
Booking_ID Buyer_ID BCNF Booking_ID is super-key (key).
Booking_ID Seller_ID BCNF Booking_ID is super-key (key).
Booking_ID Date BCNF Booking_ID is super-key (key).
Booking_ID Sell_price BCNF Booking_ID is super-key (key).

For relation Property_type, following are functional dependencies:-

Functional Dependencies BCNF? Reason

{Property_ID, Type, Sales_type} Amount BCNF {Property_ID, Type, Sales_type} is super-key.

{Property_ID, Type, Sales_type} Contract_type BCNF {Property_ID, Type, Sales_type} is super-key.

{Property_ID, Type, Sales_type} BHK BCNF {Property_ID, Type, Sales_type} is super-key.

{Property_ID, Type, Sales_type} Carpet_area BCNF {Property_ID, Type, Sales_type} is super-key.

{Property_ID, Type, Sales_type} Floor BCNF {Property_ID, Type, Sales_type} is super-key.

{Property_ID, Type, Sales_type} Residential? BCNF {Property_ID, Type, Sales_type} is super-key.

For relation Feedback, following are functional dependencies:-

Functional Dependencies BCNF? Reason

Feedback_ID Property_ID BCNF Feedback_ID is super-key (key).

Feedback_ID Respondent BCNF Feedback_ID is super-key (key).

Feedback_ID Ratings BCNF Feedback_ID is super-key (key).

Feedback_ID Description BCNF Feedback_ID is super-key (key).