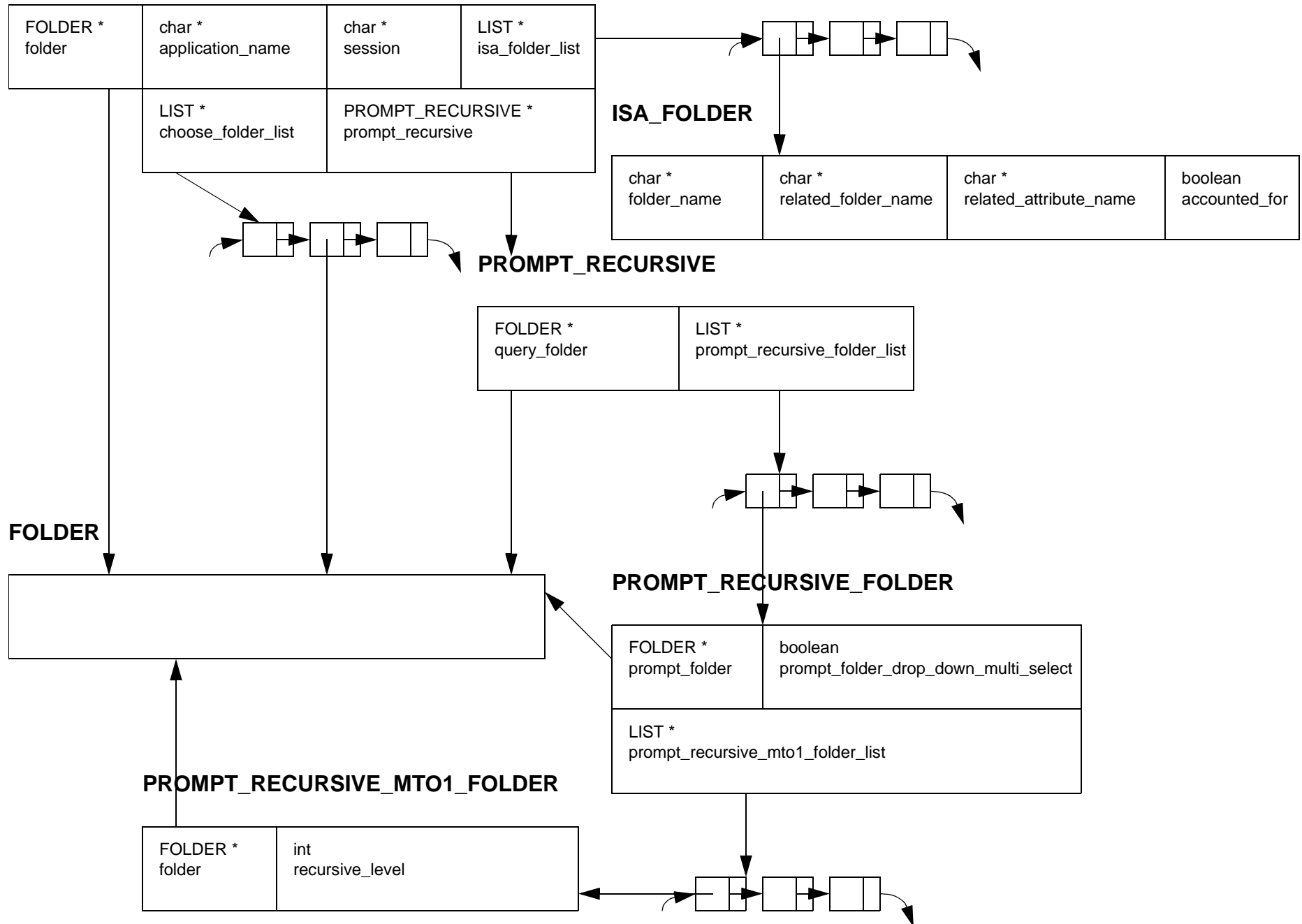


# APPASERVER Data Structure

## APPASERVER



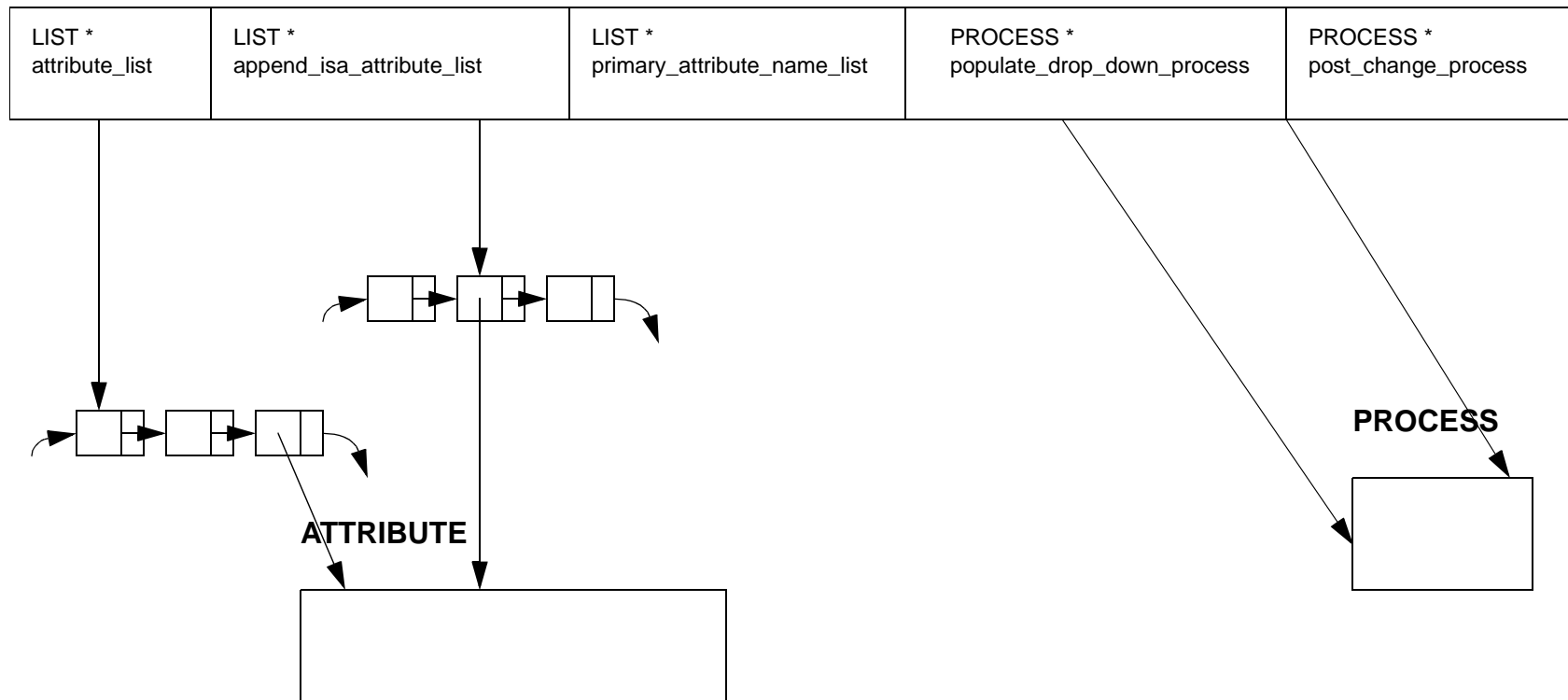
# APPASERVER Data Structure

## FOLDER

char * folder_name	int insert_rows_number	long row_count	boolean insert_permission	boolean update_permission	boolean lookup_permission	char * post_change_javascript
boolean lookup_email_output		char * application_name		char * session	char * folder_form	long row_access_count
boolean lookup_before_drop_down		char * notepad	char * html_help_file_anchor			
LIST *non_primary_attribute_list boolean lookup_transmit_output boolean row_level_non_owner_forbid boolean row_level_non_owner_view_only boolean no_initial_capital char *schema_name DICTIONARY *primary_data_dictionary						

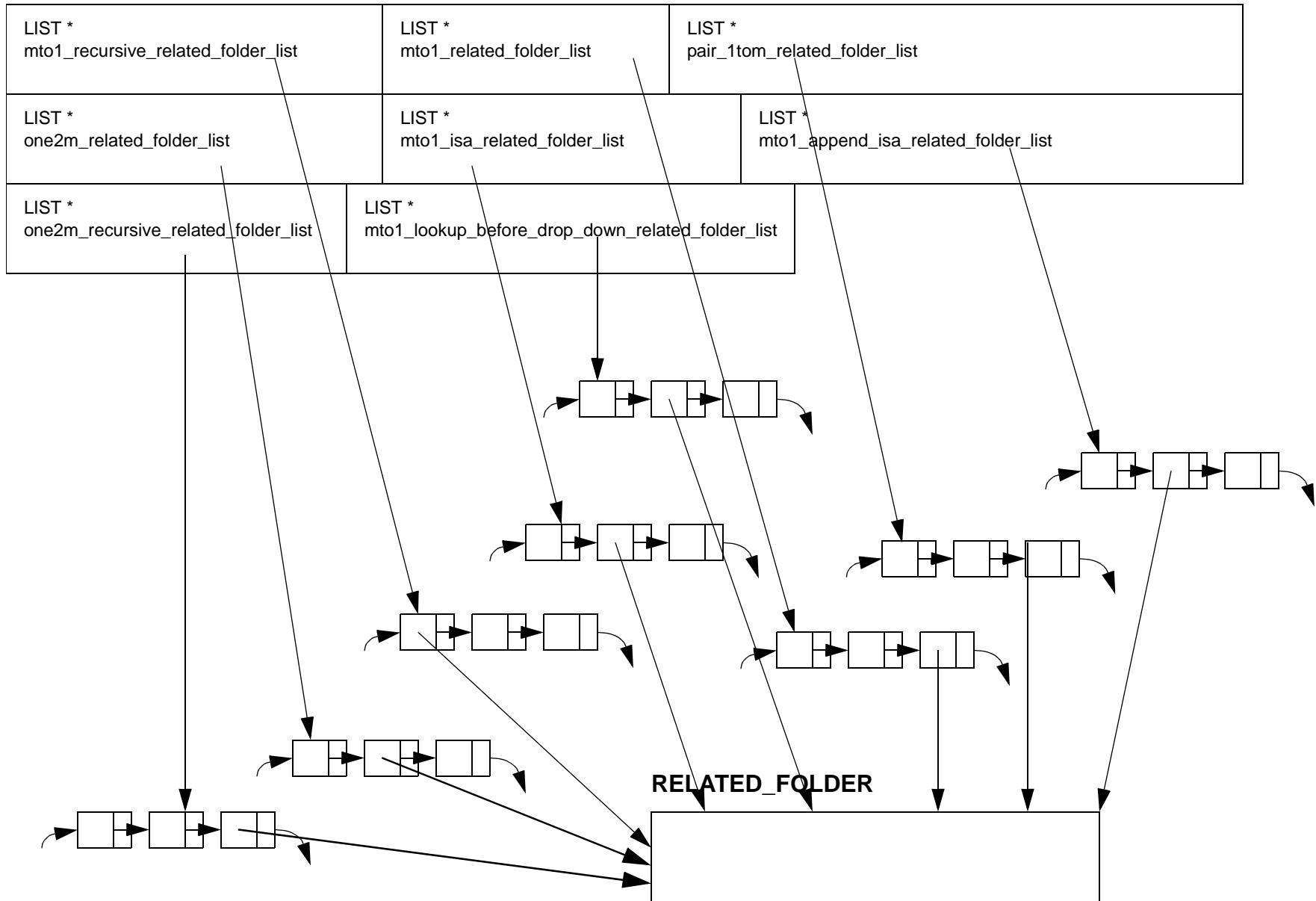
# APPASERVER Data Structure

## FOLDER (con't.)



# APPASERVER Data Structure

## FOLDER (con't.)



# APPASERVER Data Structure

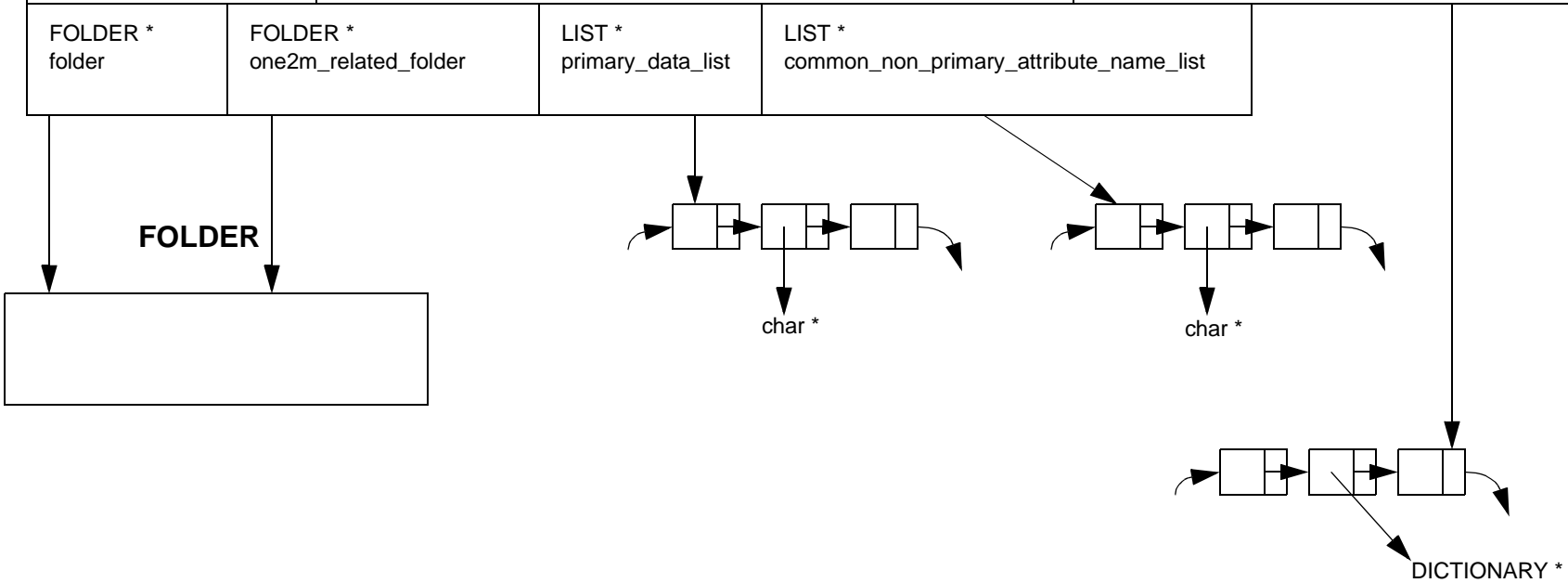
## ATTRIBUTE

char * attribute_name	char * datatype	int primary_key_index	int display_order	boolean omit_insert_prompt	boolean omit_insert
int width	int float_decimal_places	char * hint_message	char * folder_name	boolean lookup_required	boolean insert_required
boolean optional_primary_key LIST *exclude_permission_list char *post_change_javascript char *on_focus_javascript_function boolean additional_unique_index boolean additional_index boolean lookup_histogram_output boolean lookup_time_chart_output boolean appaserver					

# APPASERVER Data Structure

## RELATED\_FOLDER

boolean relation_type_isa	char * related_attribute_name	int pair_1tom_order	boolean null_1tom_upon_delete	boolean ignore_output
char * hint_message	boolean copy_common_attributes	boolean prompt_mto1_recursive	boolean omit_1tom_detail	
LIST * foreign_attribute_name_list	LIST * folder_foreign_attribute_name_list	char * join_where_clause	boolean drop_down_multi_select	
boolean automatic_preselection	LIST * parent_foreign_attribute_name_list		LIST * automatic_preselection_dictionary_list	



# APPASERVER Data Structure

## ROW\_SECURITY

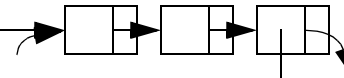
char * login_name	char * state	ROLE * login_role	
DICTIONARY * preprompt_dictionary		DICTIONARY * query_dictionary	DICTIONARY * sort_dictionary
ROW_SECURITY_ELEMENT_LIST_STRUCTURE * row_security_element_list_structure			
LIST * no_display_pressed_attribute_name_list		LIST * role_update_list	
enum row_security_state	{ security_supervisor regular_supervisor	security_user regular_user	
char * attribute_not_null_string			
FOLDER * foreign_login_name_folder	FOLDER * attribute_not_null_folder	FOLDER * select_folder	

## ROLE

char * role_name	boolean override_row_restrictions
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## ROW\_SECURITY\_ELEMENT\_LIST\_STRUCTURE

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## ROW\_SECURITY\_ROLE\_UPDATE

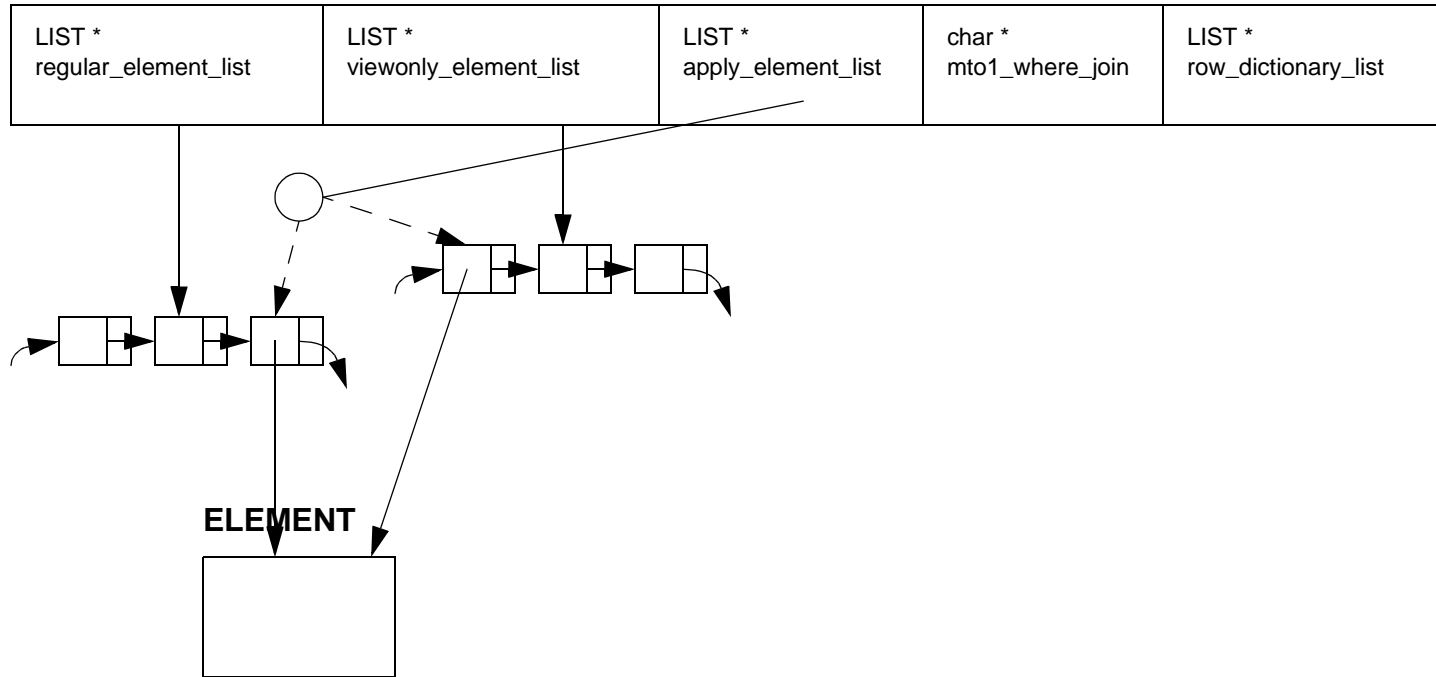
FOLDER * folder	char * attribute_not_null_string
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## FOLDER

char * folder_name	LIST * append_isa_attribute_list	LIST * mto1_recursive_related_folder_list	LIST * mto1_isa_related_folder_list	LIST * mto1_append_isa_related_folder_list
LIST * one2m_recursive_related_folder_list	LIST * join_1tom_related_folder_list	boolean row_level_non_owner_forbid	boolean row_level_non_owner_vewonly	

# APPASERVER Data Structure

## ROW\_SECURITY\_ELEMENT\_LIST\_STRUCTURE





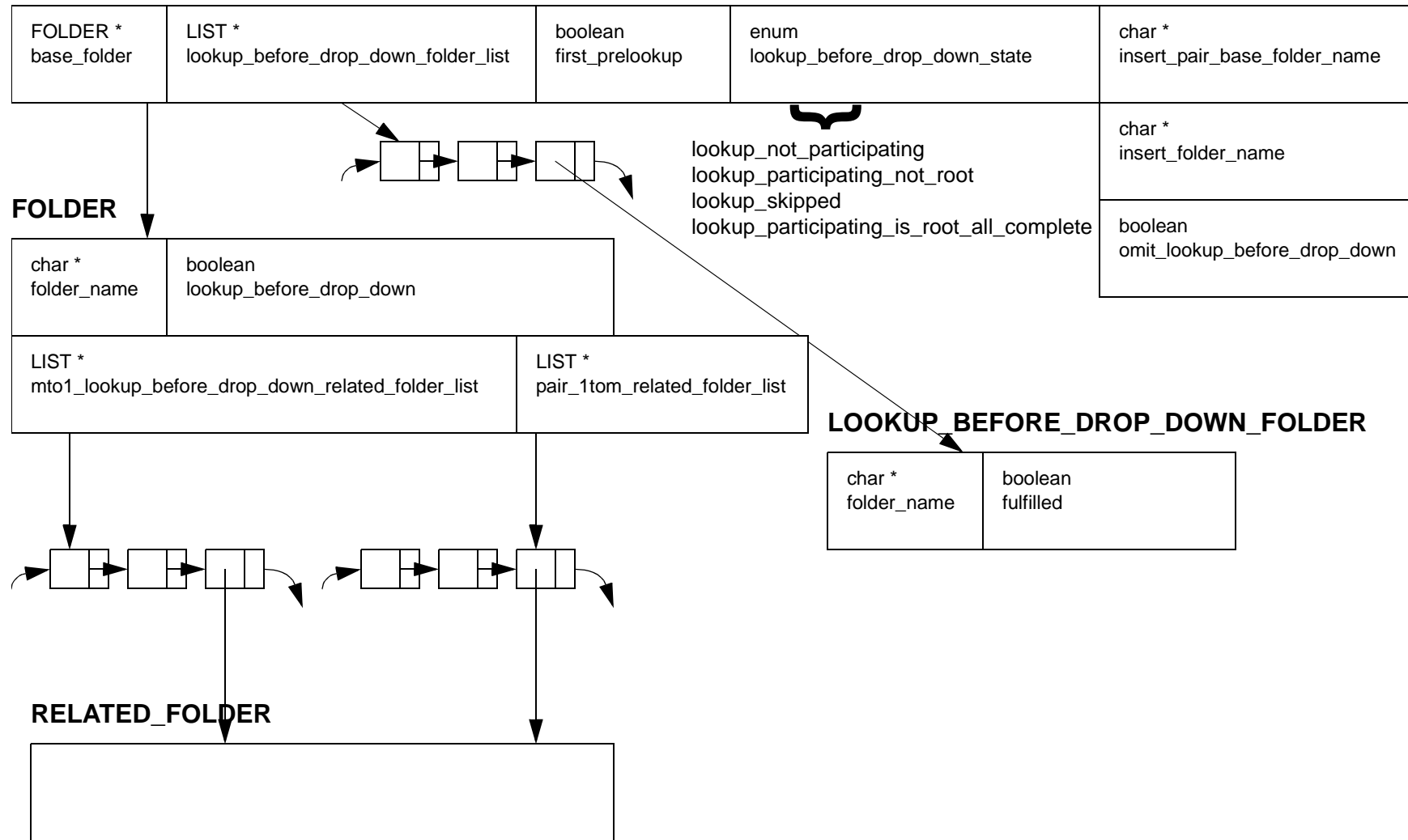
# APPASERVER Data Structure

## ELEMENT

char * name	enum element_type element_type	boolean remember_keystrokes_ok	int tab_index
drop_down push_button radio_button notepad password non_edit_text linebreak text_item upload_filename prompt_data prompt_data_plus_hidden reference_number hidden empty_column	blank element_date element_current_date element_time element_current_time http_filename timestamp table_opening table_closing prompt anchor		ELEMENT_DROP_DOWN *drop_down ELEMENT_PUSH_BUTTON *push_button ELEMENT_RADIO_BUTTON *radio_button ELEMENT_NOTEPAD *notepad ELEMENT_LINEBREAK *linebreak ELEMENT_TEXT_ITEM *text_item ELEMENT_PASSWORD *password ELEMENT_PROMPT_DATA *prompt_data ELEMENT_HIDDEN *hidden ELEMENT_UPLOAD_FILENAME *upload_filename ELEMENT_HTTP_FILENAME *http_filename ELEMENT_ANCHOR *anchor ELEMENT_EMPTY_COLUMN *empty_column ELEMENT_REFERENCE_NUMBER *reference_number ELEMENT_NON_EDIT_TEXT *non_edit_text

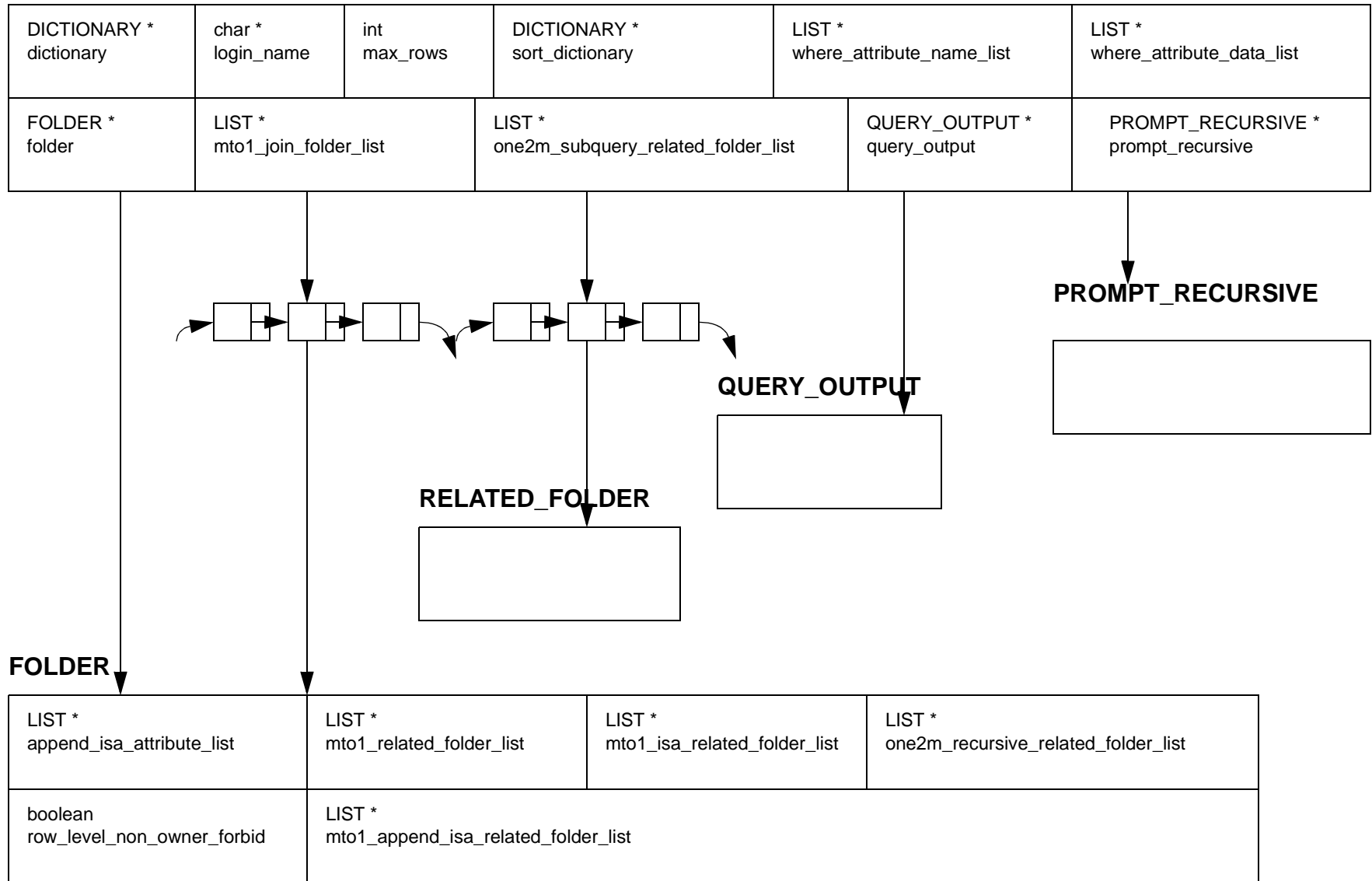
# APPASERVER Data Structure

## LOOKUP\_BEFORE\_DROP\_DOWN



# APPASERVER Data Structure

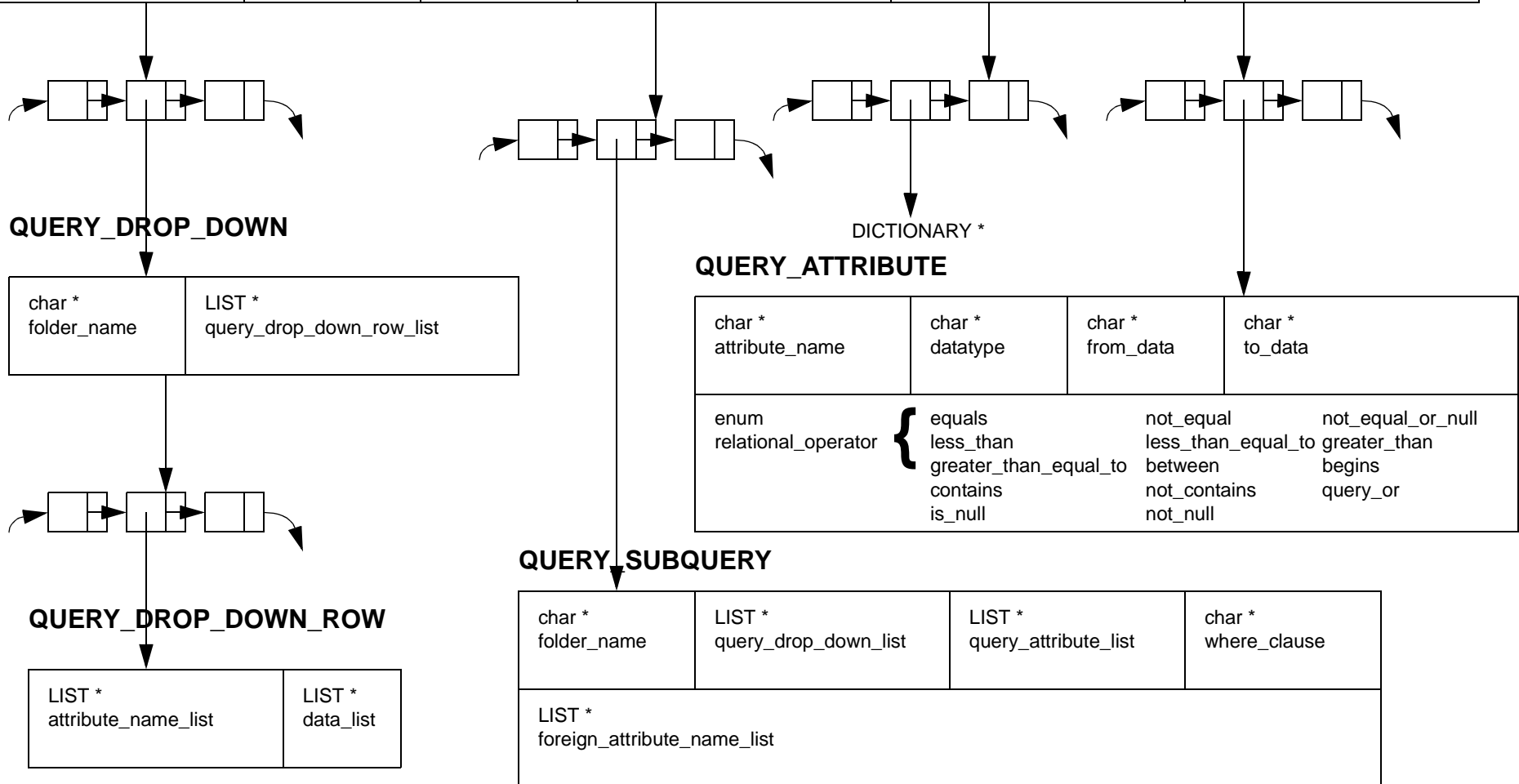
## QUERY



# APPASERVER Data Structure

## QUERY\_OUTPUT

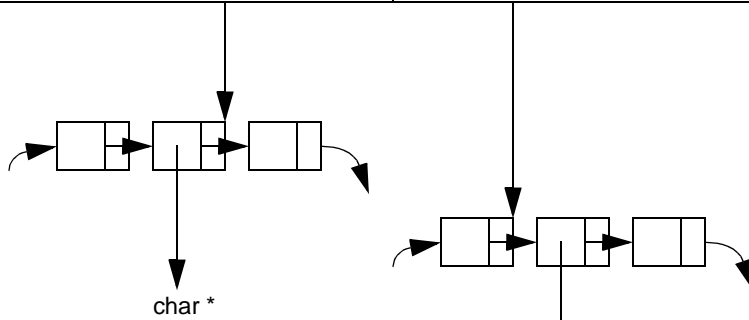
char * select_clause	char * from_clause	char * drop_down_where_clause	char * attribute_where_clause	char * non_joined_where_clause	char * subquery_where_clause
LIST * query_drop_down_list	char * where_clause	char * order_clause	LIST * query_subquery_list	LIST * row_dictionary_list	LIST * query_attribute_list



# APPASERVER Data Structure

## UPDATE\_DATABASE

char * application_name	char * session	char * login_name	char * role_name	DICTIONARY * post_dictionary	DICTIONARY * file_dictionary
LIST * exclude_attribute_name_list		LIST * update_row_list		FOLDER * folder	DICTIONARY * foreign_attribute_dictionary

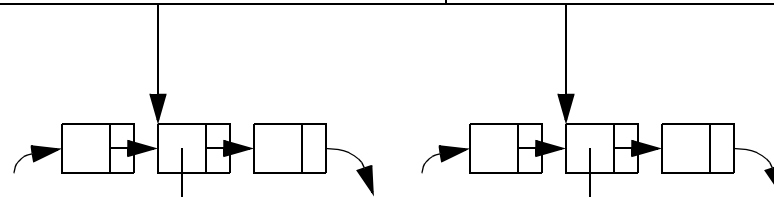


### UPDATE\_ROW



### FOLDER

LIST * one2m_recursive_related_folder_list	LIST * mto1_isa_related_folder_list
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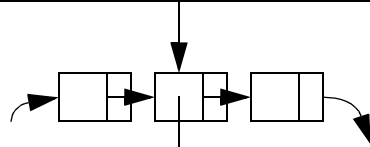
### RELATED\_FOLDER

FOLDER * one2m_related_folder	FOLDER * one2m_related_folder
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# APPASERVER Data Structure

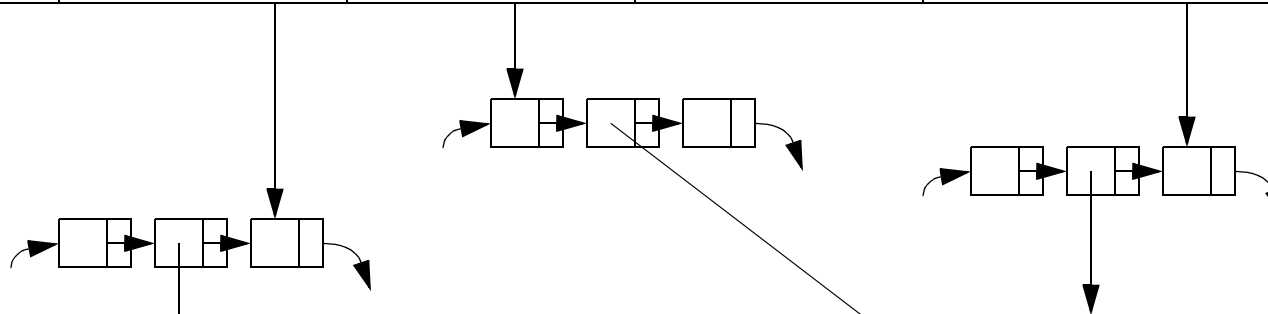
## UPDATE\_ROW

int row	LIST * update_folder_list	boolean changed_key
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## UPDATE\_FOLDER

char * folder_name	LIST * where_attribute_list	LIST * changed_attribute_list	PROCESS * post_change_process	LIST * primary_attribute_name_list
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## WHERE\_ATTRIBUTE

char * attribute_name	char * data
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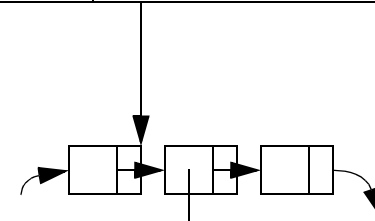
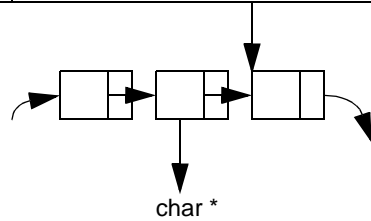
## CHANGED\_ATTRIBUTE

char * attribute_name	char * old_data	char * new_data
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# APPASERVER Data Structure

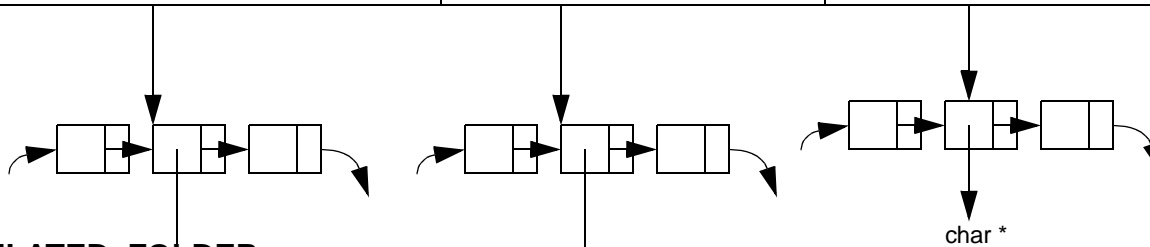
## DELETE\_DATABASE

char * application_name	boolean dont_delete_mto1_isa	char * sql_executable	char * login_name	char * role_name
FOLDER * folder	LIST * primary_attribute_data_list			LIST * delete_folder_list



## FOLDER

char * folder_name	boolean row_level_non_owner_forbid	boolean row_level_non_owner_view_only
LIST * one2m_recursive_related_folder_list	LIST * mto1_isa_related_folder_list	LIST * primary_attribute_name_list



## RELATED\_FOLDER

FOLDER * one2m_related_folder	FOLDER * one2m_related_folder	boolean null_1tom_upon_delete
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## DELETE\_FOLDER



# APPASERVER Data Structure

## DELETE\_FOLDER

char * folder_name	PROCESS * post_change_process	boolean null_1tom_upon_delete
LIST * primary_attribute_name_list	LIST * update_null_attribute_name_list	LIST * delete_row_list

