Eggshell Home Builder (Final Project)

Data Dictionary:

Advanced Database Management: December 9, 2013
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Data Dictionary

Design Name	Data Dictionary
Version Date	09.12.2013 11:06:29
Version Comment	
Model Name	Relational Model

Table Name	APPLICATION_USER
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	app_user_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	username			Y	VARCHAR (25)	DOM	name			
3	password			Y	VARCHAR (16)	DOM	password			
4	password_recovery_question			Y	VARCHAR (50)	DOM	password_recovery_q_a			
5	password_recovery_answer			Y	VARCHAR (50)	DOM	password_recovery_q_a			
6	email			Y	VARCHAR (25)	DOM	email			

| 7 | is_active | | | Y | VARCHAR (1) | DOM | yes_no_default_yes | Y | | |

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Application_User_PK	PK				app_user_id	ASC

Constraints

Type	Column / Constraint Name	Details
Column Level	email	Check Constraint
		Text	DB Type
		email LIKE '%@%'	Oracle Database 11g
	is_active	Value List
		Value	Description
		N	No
		Y	Yes

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CUSTOMER_app_user_id_FK	CUSTOMER		Y		app_user_id
EMPLOYEE_app_user_id_FK	EMPLOYEE		Y		app_user_id

Table Name	CONSTRUCTION_PROJECT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	construction_project_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	start_date			Y	Datetime	DOM	date			
3	estimated_end_date			Y	Datetime	DOM	date			
4	end_date				Datetime	DOM	date			
5	project_manager_employee_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
6	crew_id		F		NUMERIC (100000)	DOM	numeric_id			
7	house_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Construction_Project_PK	PK				construction_project_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CP_house_id_FK	HOUSE	Y	Y		house_id
CP_employee_id_FK	PROJECT_MANAGER	Y	Y		employee_id
CP_crew_id_FK	CREW		Y		crew_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CPS_construction_project_id_FK	CONSTRUCTION_PROJECT_STAGE	Y	Y		construction_project_id

Table Name	CONSTRUCTION_PROJECT_STAGE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	construction_project_stage_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	start_date			Y	Datetime	DOM	date			
3	estimated_end_date			Y	Datetime	DOM	date			
4	end_date				Datetime	DOM	date			
5	construction_project_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
6	stage_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Construction_Project_Stage_PK	PK				construction_project_stage_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CPS_stage_id_FK	STAGE	Y	Y		stage_id
CPS_construction_project_id_FK	CONSTRUCTION_PROJECT	Y	Y		construction_project_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
SSO_cnstr_project_stage_id_FK	SELECTED_STAGE_OPTION	Y	Y		construction_project_stage_id

Table Name	CONSTRUCTION_WORKER
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	skill_one			Y	VARCHAR (25)	DOM	skill			
2	skill_two				VARCHAR (25)	DOM	skill			
3	skill_three				VARCHAR (25)	DOM	skill			
4	employee_id	P	F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
CONSTRUCTION_WORKER_PK	PK				employee_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
FK_ASS_311	EMPLOYEE	Y	Y		employee_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CWC_employee_id_FK	CONSTRUCTION_WORKER_CREW	Y	Y		employee_id

Table Name	CONSTRUCTION_WORKER_CREW
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	construction_worker_crew_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	start_date			Y	Datetime	DOM	date			
3	end_date				Datetime	DOM	date			
4	crew_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
5	constr_worker_employee_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

Construction_Worker_Crew_PK	PK				construction_worker_crew_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CWC_crew_id_FK	CREW	Y	Y		crew_id
CWC_employee_id_FK	CONSTRUCTION_WORKER	Y	Y		employee_id

Table Name	CONTRACT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	contract_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	submitted_date				Datetime	DOM	date			
3	time_limit_date				Datetime	DOM	date			
4	scanned_image				Image	DOM	document			
5	is_terminated				VARCHAR (1)	DOM	yes_no_default_no	N		
6	disclosure_form_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
7	subdivision_agreement_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

8	house_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Contract_PK	PK				contract_id	ASC
CONTRACT__IDX	UN				disclosure_form_id	ASC
CONTRACT__IDXv1	UN				subdivision_agreement_id	ASC

Constraints

Type	Column / Constraint Name	Details
Column Level	is_terminated	Value List

		Value	Description
		N	No
		Y	Yes

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CONTRACT_disclosure_form_id_FK	DISCLOSURE_FORM	Y	Y		disclosure_form_id
CONTRACT_house_id_FK	HOUSE	Y	Y		house_id

C_subdivision_agreement_id_FK	SUBDIVISION_AGREEMENT	Y	Y		subdivision_agreement_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CC_contract_id_FK	CUSTOMER_CONTRACT	Y	Y		contract_id

Table Name	CREW
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	crew_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	crew_manager_employee_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Crew_PK	PK				crew_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CREW_employee_id_FK	CREW_MANAGER	Y	Y		employee_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CP_crew_id_FK	CONSTRUCTION_PROJECT		Y		crew_id
CWC_crew_id_FK	CONSTRUCTION_WORKER_CREW	Y	Y		crew_id

Table Name	CREW_MANAGER
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	start_date			Y	Datetime	DOM	date			
2	end_date				Datetime	DOM	date			
3	employee_id	P	F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
CREW_MANAGER_PK	PK				employee_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name

FK_ASS_310	EMPLOYEE	Y	Y		employee_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CREW_employee_id_FK	CREW	Y	Y		employee_id

Table Name	CUSTOMER
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	customer_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	first_name			Y	VARCHAR (25)	DOM	name			
3	last_name			Y	VARCHAR (25)	DOM	name			
4	phone_number				VARCHAR (14)	DOM	phone			
5	mortgage_info				VARCHAR (250)	DOM	description			
6	app_user_id		F		NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Customer_PK	PK				customer_id	ASC
CUSTOMER__IDX	UN				app_user_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CUSTOMER_app_user_id_FK	APPLICATION_USER		Y		app_user_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CC_customer_id_FK	CUSTOMER_CONTRACT	Y	Y		customer_id

Table Name	CUSTOMER_CONTRACT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	customer_contract_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	customer_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
3	contract_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Customer_Contract_PK	PK				customer_contract_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
CC_contract_id_FK	CONTRACT	Y	Y		contract_id
CC_customer_id_FK	CUSTOMER	Y	Y		customer_id

Table Name	DISCLOSURE_FORM
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	disclosure_form_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	start_date			Y	Datetime	DOM	date			
3	end_date				Datetime	DOM	date			
4	description			Y	VARCHAR (250)	DOM	description			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Disclosure_form_PK	PK				disclosure_form_id	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CONTRACT_disclosure_form_id_FK	CONTRACT	Y	Y		disclosure_form_id

Table Name	ELEVATION
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	elevation_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	type			Y	VARCHAR (1)	DOM	elevation_type			
3	description				VARCHAR (250)	DOM	description			
4	additional_cost				NUMERIC (9,2)	DOM	price			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Elevation_PK	PK				elevation_id	ASC

ELEVATION_type_UN	UK				type	ASC

Constraints

Type	Column / Constraint Name	Details	
Column Level	type	Value List	
		Value	Description
		A	
		B	
		C	

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
SE_elevation_id_FK	STYLE_ELEVATION	Y	Y		elevation_id

Table Name	EMPLOYEE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	employee_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	first_name			Y	VARCHAR (25)	DOM	name			
3	last_name			Y	VARCHAR (25)	DOM	name			
4	street			Y	VARCHAR (40)	DOM	street			
5	city			Y	VARCHAR (25)	DOM	city			
6	state			Y	VARCHAR (2)	DOM	state			
7	zipcode			Y	VARCHAR (10)	DOM	zipcode			

8	home_phone			Y	VARCHAR (14)	DOM	phone				
9	work_phone				VARCHAR (14)	DOM	phone				
10	cell_phone				VARCHAR (14)	DOM	phone				
11	start_date			Y	Datetime	DOM	date				
12	end_date				Datetime	DOM	date				
13	app_user_id		F		NUMERIC (100000)	DOM	numeric_id				

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Employee_PK	PK				employee_id	ASC
EMPLOYEE__IDX	UN				app_user_id	ASC

Constraints

Type	Column / Constraint Name	Details
Column Level	state	

		Value List	

		Value	Description
		AK	ALASKA
		AL	ALABAMA
		AR	ARKANSAS

		AZ	ARIZONA
		CA	CALIFORNIA
		CO	COLORADO
		CT	CONNECTICUT
		DE	DELEWARE
		FL	FLORIDA
		GA	GEORGIA
		HI	HAWAII
		IA	IOWA
		ID	IDAHO
		IL	ILLINOIS
		IN	INDIANA
		KS	KANSAS

		KY	KENTUCKY
		LA	LOUISIANA
		MA	MASSACHUSETTS
		MD	MARYLAND
		ME	MAINE
		MI	MICHIGAN
		MN	MINNESTOA
		MO	MISSOURI
		MS	MISSISSIPPI
		MT	MONTANA
		NC	NORTH CAROLINA
		ND	NORTH DAKOTA
		NE	NEBRASKA

		NH	NEW HAMPSHIRE
		NJ	NEW JERSEY
		NM	NEW MEXICO
		NV	NEVADA
		NY	NEW YORK
		OH	OHIO
		OK	OKLAHOMA
		OR	OREGON
		PA	PENNSYLVANIA
		RI	RHODE ISLAND
		SC	SOUTH CAROLINA
		SD	SOUTH DAKOTA
		TN	TENNESSEE

| | | TX | TEXAS |
| | | | |

| | | UT | UTAH |
| | | | |

| | | VA | VIRGINIA |
| | | | |

| | | VT | VERMONT |
| | | | |

| | | WA | WASHINGTON |
| | | | |

| | | WI | WISCONSIN |
| | | | |

| | | WV | WEST VIRGINIA |
| | | | |

| | | WY | WYOMING |
| | | | |

| | | | |
| | | | |

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
EMPLOYEE_app_user_id_FK	APPLICATION_USER		Y		app_user_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
FK_ASS_309	PROJECT_MANAGER	Y	Y		employee_id

FK_ASS_310	CREW_MANAGER	Y	Y		employee_id
FK_ASS_311	CONSTRUCTION_WORKER	Y	Y		employee_id
FK_ASS_312	SALES_AGENT	Y	Y		employee_id

Table Name	FLOOR
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	floor_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	description			Y	VARCHAR (250)	DOM	description			
3	house_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Floor_PK	PK				floor_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name

| FLOOR_house_id_FK | HOUSE | Y | Y | | house_id |

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
ROOM_ON_A_FLOOR_floor_id_FK	ROOM_ON_A_FLOOR	Y	Y		floor_id

Table Name	HOUSE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	house_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	escrow_amount				NUMERIC (9,2)	DOM	price			
3	is_reversed				VARCHAR (1)	DOM	yes_no_default_no	N		
4	financing_info				VARCHAR (250)	DOM	description			
5	house_layout_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

House_PK	PK				house_id	ASC

Constraints

Type	Column / Constraint Name	Details	
Column Level	is_reversed	Value List	

		Value	Description
		N	No
		Y	Yes

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
HOUSE_house_layout_id_FK	HOUSE_LAYOUT	Y	Y		house_layout_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CONTRACT_house_id_FK	CONTRACT	Y	Y		house_id
CP_house_id_FK	CONSTRUCTION_PROJECT	Y	Y		house_id
FLOOR_house_id_FK	FLOOR	Y	Y		house_id
HOUSE_SALES_AGENT_house_id_FK	HOUSE_SALES_AGENT	Y	Y		house_id

LOT_house_id_FK	LOT		Y		house_id
SALE_house_id_FK	SALE	Y	Y		house_id

Table Name	HOUSE_LAYOUT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	house_layout_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	house_reverse_layout_id		F		NUMERIC (100000)	DOM	numeric_id			
3	name			Y	VARCHAR (25)	DOM	name			
4	description			Y	VARCHAR (250)	DOM	description			

Columns Comments

No	Column Name	Description	Notes
2	house_reverse_layout_id	reversed_syle_id	

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
HOUSE_LAYOUT_PK	PK				house_layout_id	ASC
HOUSE_LAYOUT__IDX	UN				house_reverse_layout_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
HL_house_layout_id_FK	HOUSE_LAYOUT		Y		house_layout_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
HOUSE_house_layout_id_FK	HOUSE	Y	Y		house_layout_id
HL_house_layout_id_FK	HOUSE_LAYOUT		Y		house_layout_id

Table Name	HOUSE_SALES_AGENT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	house_sales_agent_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	start_date			Y	Datetime	DOM	date			
3	end_date				Datetime	DOM	date			
4	is_main_sales_agent			Y	VARCHAR (1)	DOM	yes_no_default_yes	false		
5	sales_agent_employee_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
6	house_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
House_Sales_Agent_PK	PK				house_sales_agent_id	ASC

Constraints

Type	Column / Constraint Name	Details
Column Level	is_main_sales_agent	Value List

		Value	Description
		N	No
		Y	Yes

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
HOUSE_SALES_AGENT_house_id_FK	HOUSE	Y	Y		house_id
HSA_employee_id_FK	SALES_AGENT	Y	Y		employee_id

Table Name	LOT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	lot_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	lot_size				VARCHAR (250)	DOM	description			
3	premium			Y	NUMERIC (9,2)	DOM	price			
4	street			Y	VARCHAR (40)	DOM	street			
5	latitude				DECIMAL	DOM	latitude_longitude			
6	longitude				DECIMAL	DOM	latitude_longitude			
7	style_elevation_id		F		NUMERIC (100000)	DOM	numeric_id			

| 8 | subdivision_id | | F | Y | NUMERIC (100000) | DOM | numeric_id | | | |
| 9 | house_id | | F | | NUMERIC (100000) | DOM | numeric_id | | | |

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Lot_PK	PK				lot_id	ASC
LOT__IDX	UN				house_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
LOT_style_elevation_id_FK	STYLE_ELEVATION		Y		style_elevation_id
LOT_house_id_FK	HOUSE		Y		house_id
LOT_subdivision_id_FK	SUBDIVISION	Y	Y		subdivision_id

Table Name	OPTION_CHOICE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	option_choice_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	option_category			Y	VARCHAR (25)	DOM	option_type			
3	description			Y	VARCHAR (250)	DOM	description			
4	price			Y	NUMERIC (9,2)	DOM	price			
5	last_allowed_stage_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

| Option_Choice_PK | PK | | | | option_choice_id | ASC |

Constraints

Type	Column / Constraint Name	Details
Column Level	option_category	Value List

		Value	Description
		Decoration	Decoration
		Electrical	Electrical
		Exterior	Exterior
		Interior	Interior
		Plumbing	Plumbing

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
OPTION_CHOICE_stage_id_FK	STAGE	Y	Y		stage_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name

SSO_option_choice_id_FK	SELECTED_STAGE_OPTION	Y	Y		option_choice_id

Table Name	PROJECT_MANAGER
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	start_date			Y	Datetime	DOM	date			
2	end_date				Datetime	DOM	date			
3	employee_id	P	F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
PROJECT_MANAGER_PK	PK				employee_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name

FK_ASS_309	EMPLOYEE	Y	Y		employee_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CP_employee_id_FK	CONSTRUCTION_PROJECT	Y	Y		employee_id
TASK_UPDATE_employee_id_FK	TASK_UPDATE	Y	Y		employee_id

Table Name	ROOM
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	room_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	room_type			Y	VARCHAR (25)	DOM	room_type			
3	ceiling_type				VARCHAR (15)	DOM	ceiling_type	standard		
4	description				VARCHAR (250)	DOM	description			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Room_PK	PK				room_id	ASC

Constraints

Type	Column / Constraint Name	Details	
Column Level	room_type	Value List	
		Value	Description
		Attic	Attic
		Basement	Basement
		Bath Room	Bath Room
		Bed Room	Bed Room
		Den	Den
		Dining Room	Dining Room
		Foyer	Foyer
		Garage	Garage
		Hall	Hall
		Kitchen	Kitchen

		Laundry Room	Laundry Room
		Living Room	Living Room
		Mud Room	Mud Room
		Office	Office
		Study	Study
		Work Room	Work Room
	ceiling_type	Value List	

		Value	Description
		standard	
		tall cathedral	
		vaulted	

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
ROOM_ON_A_FLOOR_room_id_FK	ROOM_ON_A_FLOOR	Y	Y		room_id

Table Name	ROOM_ON_A_FLOOR
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	room_on_a_floor_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	room_size				VARCHAR (250)	DOM	description			
3	num_windows				NUMERIC (2)	DOM	num_windows			
4	floor_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
5	room_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

Room_On_A_Floor_PK	PK				room_on_a_floor_id	ASC

Constraints

Type	Column / Constraint Name	Details	
Column Level	num_windows	Ranges	

		Begin Value	End Value	Description
		0	99	

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
ROOM_ON_A_FLOOR_floor_id_FK	FLOOR	Y	Y		floor_id
ROOM_ON_A_FLOOR_room_id_FK	ROOM	Y	Y		room_id

Table Name	SALE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	sale_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	escrow_paid				VARCHAR (1)	DOM	yes_no_default_no	N		
3	financing_option				VARCHAR (15)	DOM	financing_option			
4	house_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
5	employee_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

Sale_PK	PK			sale_id	ASC

Constraints

Type	Column / Constraint Name	Details
Column Level	escrow_paid	Value List

		Value	Description
		N	No
		Y	Yes

	financing_option	Value List

		Value	Description
		cash	
		mortgage	
		unknown	

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
SALE_house_id_FK	HOUSE	Y	Y		house_id
SALE_employee_id_FK	SALES_AGENT	Y	Y		employee_id

Table Name	SALES_AGENT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	title			Y	VARCHAR (250)	DOM	description			
2	license_number			Y	VARCHAR (15)	DOM	sales_agent_license			
3	employee_id	P	F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
SALES_AGENT_PK	PK				employee_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name

| FK_ASS_312 | EMPLOYEE | Y | Y | | employee_id |

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
HSA_employee_id_FK	HOUSE_SALES_AGENT	Y	Y		employee_id
SALE_employee_id_FK	SALE	Y	Y		employee_id

Table Name	SCHOOL
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	school_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	name			Y	VARCHAR (25)	DOM	name			
3	school_district_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
School_PK	PK				school_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name

SCHOOL_school_district_id_FK	SCHOOL_DISTRICT	Y	Y		school_district_id

Table Name	SCHOOL_DISTRICT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	school_district_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	name			Y	VARCHAR (25)	DOM	name			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
School_District_PK	PK				school_district_id	ASC
SCHOOL_DISTRICT_name_UN	UK				name	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name

SCHOOL_school_district_id_FK	SCHOOL	Y	Y		school_district_id
S_school_district_id_FK	SUBDIVISION	Y	Y		school_district_id

Table Name	SELECTED_STAGE_OPTION
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	selected_stage_option_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	selected_date			Y	Datetime	DOM	date			
3	option_choice_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
4	construction_project_stage_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
5	customer_price			Y	NUMERIC (9,2)	DOM	price			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

Selected_Stage_Option	PK				selected_stage_option_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
SSO_cnstr_project_stage_id_FK	CONSTRUCTION_PROJECT_STAGE	Y	Y		construction_project_stage_id
SSO_option_choice_id_FK	OPTION_CHOICE	Y	Y		option_choice_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
T_selected_stage_option_id_FK	TASK	Y	Y		selected_stage_option_id

Table Name	STAGE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	stage_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	stage_number			Y	NUMERIC (1)	DOM	stage_number			
3	description				VARCHAR (250)	DOM	description			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Stage_PK	PK				stage_id	ASC

Constraints

Type	Column / Constraint Name	Details

Column Level	stage_number	Check Constraint	

		Text	DB Type
		stage_number <= 7	Oracle Database 11g

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
CPS_stage_id_FK	CONSTRUCTION_PROJECT_STAGE	Y	Y		stage_id
OPTION_CHOICE_stage_id_FK	OPTION_CHOICE	Y	Y		stage_id

Table Name	STYLE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	style_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	name			Y	VARCHAR (25)	DOM	name			
3	description				VARCHAR (250)	DOM	description			
4	base_price			Y	NUMERIC (9,2)	DOM	price			
5	floorplan_link _one				VARCHAR (250)	DOM	description			
6	floorplan_link _two				VARCHAR (250)	DOM	description			
7	floorplan_link _three				VARCHAR (250)	DOM	description			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Style_PK	PK				style_id	ASC
STYLE_name_UN	UK				name	ASC

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
SAS_style_id_FK	SUBDIVISION_ALLOWABLE_STYLE	Y	Y		style_id
STYLE_ELEVATION_style_id_FK	STYLE_ELEVATION	Y	Y		style_id

Table Name	STYLE_ELEVATION
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	style_elevation_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	style_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
3	elevation_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
STYLE_ELEVATION_PK	PK				style_elevation_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
SE_elevation_id_FK	ELEVATION	Y	Y		elevation_id
STYLE_ELEVATION_style_id_FK	STYLE	Y	Y		style_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
LOT_style_elevation_id_FK	LOT		Y		style_elevation_id

Table Name	SUBDIVISION
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	subdivision_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	name			Y	VARCHAR (25)	DOM	name			
3	city			Y	VARCHAR (25)	DOM	city			
4	state			Y	VARCHAR (2)	DOM	state			
5	zipcode			Y	VARCHAR (10)	DOM	zipcode			
6	map				Image	DOM	map			
7	school_district_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Subdivision_PK	PK				subdivision_id	ASC

Constraints

Type	Column / Constraint Name	Details	
Column Level	state	Value List	

		Value	Description
		AK	ALASKA
		AL	ALABAMA
		AR	ARKANSAS
		AZ	ARIZONA
		CA	CALIFORNIA
		CO	COLORADO
		CT	CONNECTICUT
		DE	DELEWARE

		FL	FLORIDA
		GA	GEORGIA
		HI	HAWAII
		IA	IOWA
		ID	IDAHO
		IL	ILLINOIS
		IN	INDIANA
		KS	KANSAS
		KY	KENTUCKY
		LA	LOUISIANA
		MA	MASSACHUSETTS
		MD	MARYLAND
		ME	MAINE

		MI	MICHIGAN
		MN	MINNESTOA
		MO	MISSOURI
		MS	MISSISSIPPI
		MT	MONTANA
		NC	NORTH CAROLINA
		ND	NORTH DAKOTA
		NE	NEBRASKA
		NH	NEW HAMPSHIRE
		NJ	NEW JERSEY
		NM	NEW MEXICO
		NV	NEVADA
		NY	NEW YORK

		OH	OHIO
		OK	OKLAHOMA
		OR	OREGON
		PA	PENNSYLVANIA
		RI	RHODE ISLAND
		SC	SOUTH CAROLINA
		SD	SOUTH DAKOTA
		TN	TENNESSEE
		TX	TEXAS
		UT	UTAH
		VA	VIRGINIA
		VT	VERMONT
		WA	WASHINGTON

		WI	WISCONSIN
		WV	WEST VIRGINIA
		WY	WYOMING

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
S_school_district_id_FK	SCHOOL_DISTRICT	Y	Y		school_district_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
LOT_subdivision_id_FK	LOT	Y	Y		subdivision_id
SAS_subdivision_id_FK	SUBDIVISION_ALLOWABLE_STYLE	Y	Y		subdivision_id
SA_subdivision_id_FK	SUBDIVISION_AGREEMENT	Y	Y		subdivision_id

Table Name	SUBDIVISION_AGREEMENT
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	subdivision_agreement_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	description				VARCHAR (250)	DOM	description			
3	start_date			Y	Datetime	DOM	date			
4	end_date				Datetime	DOM	date			
5	subdivision_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order

Subdivision_Agreement_PK	PK				subdivision_agreement_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
SA_subdivision_id_FK	SUBDIVISION	Y	Y		subdivision_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
C_subdivision_agreement_id_FK	CONTRACT	Y	Y		subdivision_agreement_id

Table Name	SUBDIVISION_ALLOWABLE_STYLE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	subdivision_allowable_style_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	subdivision_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
3	style_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Subdivision_Allowable_Style	PK				subdivision_allowable_style_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
SAS_style_id_FK	STYLE	Y	Y		style_id
SAS_subdivision_id_FK	SUBDIVISION	Y	Y		subdivision_id

Table Name	TASK
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	task_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	name			Y	VARCHAR (25)	DOM	name			
3	description				VARCHAR (250)	DOM	description			
4	selected_stage_option_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Task_PK	PK				task_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
T_selected_stage_option_id_FK	SELECTED_STAGE_OPTION	Y	Y		selected_stage_option_id

Foreign Keys (referred from)

Name	Referred From	Mandatory	Transferable	In Arc	Column Name
TASK_UPDATE_task_id_FK	TASK_UPDATE	Y	Y		task_id

Table Name	TASK_UPDATE
Functional Name	
Abbreviation	
Classification Type Name	
Object Type Name	

Used In Diagrams

Diagram Name
Relational_1(2).pdf

Columns

No	Column Name	PK	FK	M	Data Type	DT kind	Domain Name	Formula (Default Value)	Security	Abbreviation
1	task_update_id	P		Y	NUMERIC (100000)	DOM	numeric_id			
2	update_date			Y	Datetime	DOM	date			
3	percent_complete			Y	NUMERIC (5,2)	DOM	percent			
4	comments			Y	VARCHAR (250)	DOM	description			
5	photo				Image	DOM	photo_update			
6	employee_id		F	Y	NUMERIC (100000)	DOM	numeric_id			
7	task_id		F	Y	NUMERIC (100000)	DOM	numeric_id			

Indexes

Index Name	State	Functional	Spatial	Expression	Column Name	Sort Order
Task_Update_PK	PK				task_update_id	ASC

Foreign Keys (referring to)

Name	Refering To	Mandatory	Transferable	In Arc	Column Name
TASK_UPDATE_task_id_FK	TASK	Y	Y		task_id
TASK_UPDATE_employee_id_FK	PROJECT_MANAGER	Y	Y		employee_id