

EGGSHELL HOME BUILDER (FINAL PROJECT)

Data Dictionary:

Advanced Database Management: December 9, 2013

(Group 3)

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Data Dictionary

Design Name	Relational Model
Version Date	09.12.2013 02:27:10
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 (50)	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	CHAR (1)	DOM	yes_no_defa ult_yes	Y		
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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	<div>Check Constraint</div>

Text	DB Type	
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email LIKE '%@%'	Oracle Database 11g	
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	is_active	<div>Value List</div>
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Value	Description	
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N	No	
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Y	Yes	
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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	Referring 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	Referring 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	Referring 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
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Construction_Worker_ Crew_PK	PK				construction_worker_ crew_id	ASC
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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_WORKE R	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				CHAR (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			
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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	<div>Value List</div>

Value	Description	
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N	No	
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Y	Yes	
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Foreign Keys (referring to)

Name	Referring 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
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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	Referring 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
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FK_ASS_310	EMPLOYEE	Y	Y		employee_id
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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 (50)	DOM	name			
3	last_name			Y	VARCHAR (50)	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	Referring 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_for m_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
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Constraints

Type	Column / Constraint Name	Details		
Column Level	type	<table><tr><th>Value List</th><td></td></tr></table>	Value List	
Value List				

Value	Description	
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A		
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B		
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C		
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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 (50)	DOM	name			
3	last_name			Y	VARCHAR (50)	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	<div>Value List</div>

Value	Description	
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AK	ALASKA	
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AL	ALABAMA	
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AR	ARKANSAS	
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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	Referring 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	Referring To	Mandatory	Transferable	In Arc	Column Name
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FLOOR_house_id_FK	HOUSE	Y	Y		house_id
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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				CHAR (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
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House_PK	PK				house_id	ASC
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Constraints

Type	Column / Constraint Name	Details		
Column Level	is_reversed	<table><tr><td>Value List</td><td></td></tr></table>	Value List	
Value List				

Value	Description	
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N	No	
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Y	Yes	
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Foreign Keys (referring to)

Name	Referring 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 (50)	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_ID_X	UN				house_reverse_layout_id	ASC

Foreign Keys (referring to)

Name	Referring 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	CHAR (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	<div>Value List</div>

Value	Description	
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N	No	
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Y	Yes	
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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	Referring 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_category			
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
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Option_Choice_PK	PK				option_choice_id	ASC
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Constraints

Type	Column / Constraint Name	Details		
Column Level	option_category	<table><tr><td>Value List</td><td></td></tr></table>	Value List	
Value List				

Value	Description	
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Decoration	Decoration	
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Electrical	Electrical	
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Exterior	Exterior	
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Fixture	Fixture	
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Flooring	Flooring	
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Interior	Interior	
----------	----------	--

Plumbing	Plumbing	
----------	----------	--

Wall Texture	Wall Texture	
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Foreign Keys (referring to)

Name	Referring 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	Referring To	Mandatory	Transferable	In Arc	Column Name
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FK_ASS_309	EMPLOYEE	Y	Y		employee_id
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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		
Bathroom	Bathroom		
Bedroom	Bedroom		
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
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Constraints

Type	Column / Constraint Name	Details			
Column Level	num_windows	<table> <tr> <td>Ranges</td><td></td><td></td></tr> </table>	Ranges		
Ranges					

Begin Value	End Value	Description	
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0	99		
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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				CHAR (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
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Constraints

Type	Column / Constraint Name	Details
Column Level	escrow_paid	<div>Value List</div>

Value	Description	
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N	No	
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Y	Yes	
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	financing_option	<div>Value List</div>

Value	Description	
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cash		
------	--	--

mortgage		
----------	--	--

unknown		
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Foreign Keys (referring to)

Name	Referring 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	Referring To	Mandatory	Transferable	In Arc	Column Name
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FK_ASS_312	EMPLOYEE	Y	Y		employee_id
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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 (50)	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	Referring To	Mandatory	Transferable	In Arc	Column Name
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SCHOOL_school_district_id_FK	SCHOOL_DISTRICT	Y	Y		school_district_id
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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 (50)	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
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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
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Selected_Stage_Option	PK				selected_stage_option_id	ASC
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Foreign Keys (referring to)

Name	Referring 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
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Column Level	stage_number	Check Constraint
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Text	DB Type	
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stage_number <= 7	Oracle Database 11g	
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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 (50)	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	Referring 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 (50)	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	<table><tr><td>Value List</td><td></td></tr></table>	Value List	
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	
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WV	WEST VIRGINIA	
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WY	WYOMING	
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Foreign Keys (referring to)

Name	Referring 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
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Foreign Keys (referring to)

Name	Referring 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 (50)	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	Referring 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	Referring 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