celestial_body relation examples					
CB_NAME	COORDINATE	VISIBLE	DISTANCE	DIAMETER	
Planet2	RA 06h 45m Dec -16degree 43	1	8.6	1.81	
Planet3	RA 00h 42m Dec +41degree 16	1	2.53	0.0233	
Blackhole1	RA 12h 30m 49.4s Dec +12degree 23 28	0	53000000	NULL	
Star1	RA 14h 29m Dec -62degree 41		NULL	NULL	
Star2	RA 18h 36m Dec +38degree 47		NULL	NULL	
Star3	RA 14h 39m Dec -60degree 50		NULL	NULL	
Star4	RA 17h 45m Dec -29degree 00		NULL	NULL	
Star5	RA 12h 30m Dec +12degree 23		NULL	NULL	
Galaxy4	RA 16h 55m Dec -40degree 44		NULL	NULL	
Star1 relation					
TEMPERATURE	SPECTRAL_CLASS	LUMINOSITY_CLASS	COLOR		
9940	A1	V	White		
3500	M1	I	Red		
3042	M5	V	Red		
9602	A0	V	White		
5790	G2	V	Yellow		
Star relation					
CB_NAME	COORDINATE	AGE	TEMPERATURE		
Star1	RA 14h 29m Dec -62degree 41	0	9940		
Star2	RA 18h 36m Dec +38degree 47	8	3500		
Star3	RA 14h 39m Dec -60degree 50	5	3042		
Star4	RA 17h 45m Dec -29degree 00	5	3042		
Star5	RA 12h 30m Dec +12degree 23	0	9602		
Planet1 relation					
HABITABLE	WATER				
1	1				
0	0				
Planet relation					
CB_NAME	COORDINATE	HABITABLE	ROTATIONAL_TILT	AXIAL_TILT	SHAPE
Planet2	RA 06h 45m Dec -16degree 43	1	23.5	23.5	Oblate
Planet3	RA 00h 42m Dec +41degree 16	0	23.5	23.5	Spherical

Blackhole relation					
CB_NAME	COORDINATE	CHARGE	ANGULAR_MOMENTUM	MASS	
Blackhole1	RA 12h 30m 49.4s Dec +12degree 23 28	0	0.99	6500000000	
Galaxy relation					
CB_NAME	COORDINATE	SHAPE	COLOR		
Galaxy4	RA 16h 55m Dec -40degree 44	Elliptical	Yellow		
Observatory1					
OBS_NAME	ADDRESS				
Observatory1	Somewhere in space 500km above Earth				
Observatory2	1234 Toronto, Ontario, Canada				
Observatory3	4567, Hawaii USA				
Observatory4	Somewhere in space too 1200km above Earth				
Observatory5	8910 Puerto Rico USA				
Observatory					
OBS_ID	OBS_NAME				
1	Observatory1				
2	Observatory2				
3	Observatory3				
4	Observatory4				
5	Observatory5				
Astronomer					
AST_ID	AST_NAME	ACTIVE			
1	Astronomer1	0			
2	Astronomer2	1			
3	Astronomer3	1			
4	Astronomer4	0			
5	Astronomer5	0			
ph_location_found					
OBS_ID	PH_NAME	EXPLAINED			
1	Phenomena1	1			
2	Phenomena2	1			

3	Phenomena3	1			
4	Phenomena4	1			
5	Phenomena5	0			
tel_housed_at1					
TEL_NAME	OBS_ID				
Telescop1	1				
Telescope5	2				
Telescope2	3				
Telescope3	4				
Telescope4	5				
Telescope11	1				
Telescope12	1				
Telescope21	2				
tel_housed_at					
TEL_NAME	MANUFACTURED_DATE	MODEL			
Telescop1	24-Apr-90	Space-based Reflecting Telescope			
Telescope2	05-May-98	Ground-based Optical Telescope			
Telescope3	23-Jul-99	Space-based X-ray Telescope			
Telescope4	01-Nov-63	Ground-based Radio Telescope			
Telescope5	24-Apr-90	Space-based Reflecting Telescope			
Telescope11	24-Apr-91	Space-based Reflecting Telescope			
Telescope12	24-Apr-92	Space-based Reflecting Telescope			
Telescope21	24-Apr-70	Space-based Reflecting Telescope			
picture_taken_by					
PICTURE_ID	DATE_TAKEN	LINK	TEL_NAME		
1	08-Jul-16	https://dummy.com/image1.jpg	Telescop1		
2	08-Jul-16	https://dummy.com/image2.jpg	Telescope2		
3	08-Jul-16	https://dummy.com/image3.jpg	Telescope3		
4	08-Jul-16	https://dummy.com/image4.jpg	Telescope4		
5	08-Jul-16	https://dummy.com/image5.jpg	Telescope5		
6	09-Jul-16	https://dummy.com/image6.jpg	Telescop1		
7	10-Jul-16	https://dummy.com/image7.jpg	Telescop1		
8	11-Jul-16	https://dummy.com/image8.jpg	Telescop1		
9	12-Jul-16	https://dummy.com/image9.jpg	Telescop1		

10	13-Jul-16	https://dummy.com/image10.jpg	Telescop1		
11	14-Jul-16	https://dummy.com/image11.jpg	Telescop1		
12	15-Jul-16	https://dummy.com/image12.jpg	Telescope11		
13	16-Jul-16	https://dummy.com/image12.jpg	Telescope11		
found relation					
AST_ID	CB_NAME	COORDINATE			
1	Planet2	RA 06h 45m Dec -16degree 43			
2	Star2	RA 18h 36m Dec +38degree 47			
th_explained_by relation					
TH_NAME	PH_NAME	DATE_FOUND	CONTENT	SOLVED	
Theory1	Phenomena1	06-Jun-66	Theory1 prove Phenomena1	1	
Theory2	Phenomena1	07-Jul-80	Theory2 prove Phenomena1	0	
Theory3	Phenomena2	05-Aug-70	Theory3 prove Phenomena2	0	
Theory4	Phenomena3	04-Sep-00	Theory4 prove Phenomena3	1	
Theory5	Phenomena4	03-Oct-01	Theory5 prove Phenomena4	1	
Theory6	Phenomena5	02-Nov-10	Theory6 prove Phenomena5	0	
Theory7	Phenomena5	01-Dec-20	Theory7 prove Phenomena5	1	
authored relation					
AST_ID	TH_NAME	PH_NAME			
1	Theory1	Phenomena1			
1	Theory2	Phenomena1			
2	Theory3	Phenomena2			
3	Theory4	Phenomena3			
4	Theory5	Phenomena4			
5	Theory6	Phenomena5			
5	Theory7	Phenomena5			
has relation					
PH_NAME	CB_NAME	COORDINATE			
Phenomena1	Planet2	RA 06h 45m Dec -16degree 43			
Phenomena1	Star1	RA 14h 29m Dec -62degree 41			
Phenomena1	Star5	RA 12h 30m Dec +12degree 23			
Phenomena2	Blackhole1	RA 12h 30m 49.4s Dec +12degree 23 28			
Phenomena2	Star2	RA 18h 36m Dec +38degree 47			

Phenomena3	Planet3	RA 00h 42m Dec +41degree 16			
Phenomena4	Galaxy4	RA 16h 55m Dec -40degree 44			
Phenomena4	Star3	RA 14h 39m Dec -60degree 50			
Phenomena5	Star4	RA 17h 45m Dec -29degree 00			
taken_of relation					
PICTURE_ID	CB_NAME	COORDINATE			
1	Star1	RA 14h 29m Dec -62degree 41			
2	Star2	RA 18h 36m Dec +38degree 47			
3	Planet3	RA 00h 42m Dec +41degree 16			
4	Planet2	RA 06h 45m Dec -16degree 43			
5	Blackhole1	RA 12h 30m 49.4s Dec +12degree 23 28			
6	Blackhole1	RA 12h 30m 49.4s Dec +12degree 23 28			
7	Planet2	RA 06h 45m Dec -16degree 43			
8	Planet3	RA 00h 42m Dec +41degree 16			
9	Star2	RA 18h 36m Dec +38degree 47			
10	Star3	RA 14h 39m Dec -60degree 50			
11	Star4	RA 17h 45m Dec -29degree 00			
12	Star5	RA 12h 30m Dec +12degree 23			
13	Galaxy4	RA 16h 55m Dec -40degree 44			