MINI PROJECT REPORT

Astronomical Database Management System

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ER DIAGRAM :
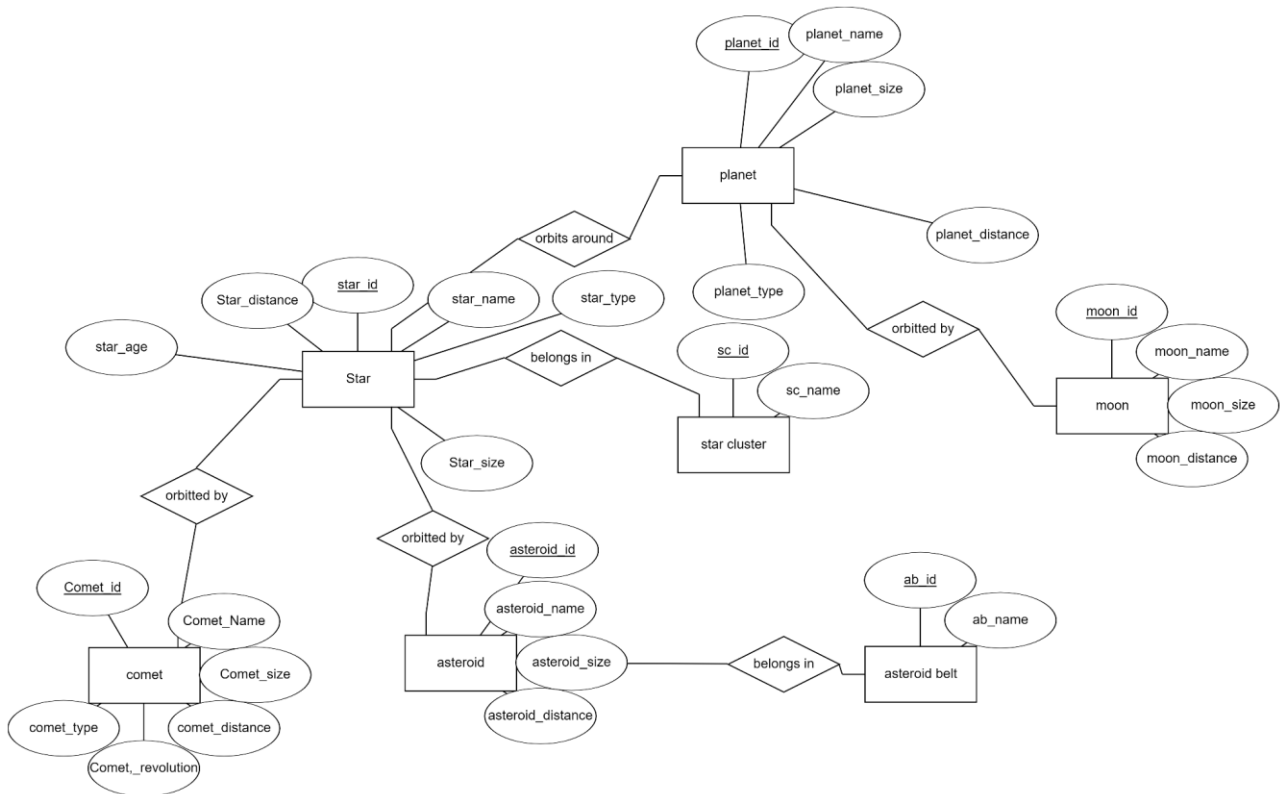
RELATIONAL SCHEMA :

Star
star_id
star_name
Star_size
Star_distance
star_age
star_type

planet
planet_id
planet_name
planet_size
planet_distance
planet_type

moon
moon_id
moon_name
moon_size
moon_distance

asteroid
asteroid_id
asteroid_name
asteroid_size
asteroid_distance

comet
Comet_id
Comet_Name
Comet_size
comet_distance
Comet,_revolution
comet_type

asteroid belt
ab_id
ab_name

star cluster
sc_id
sc_name

Query Executions:
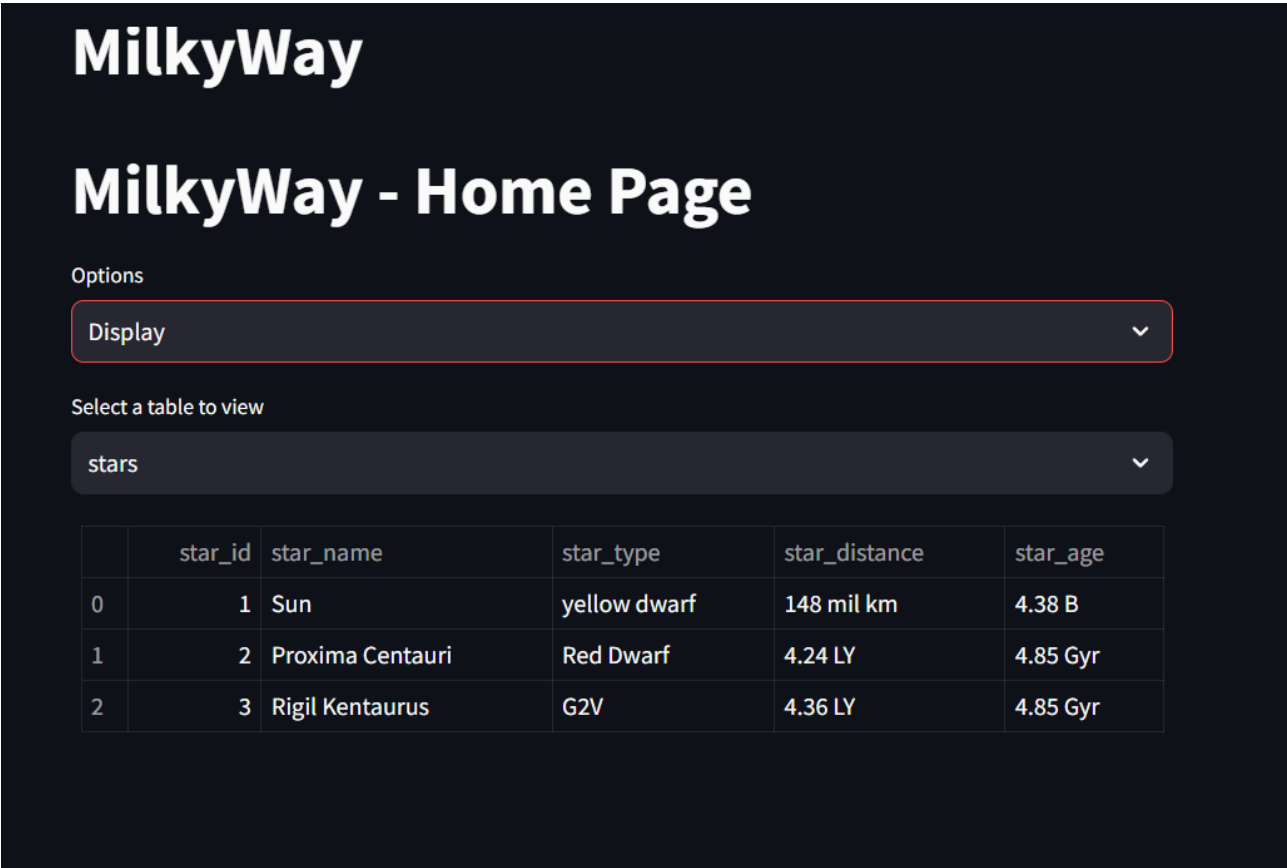1)REGISTER USER:
Adding user abc

2)LOGIN:
Logging in with admin
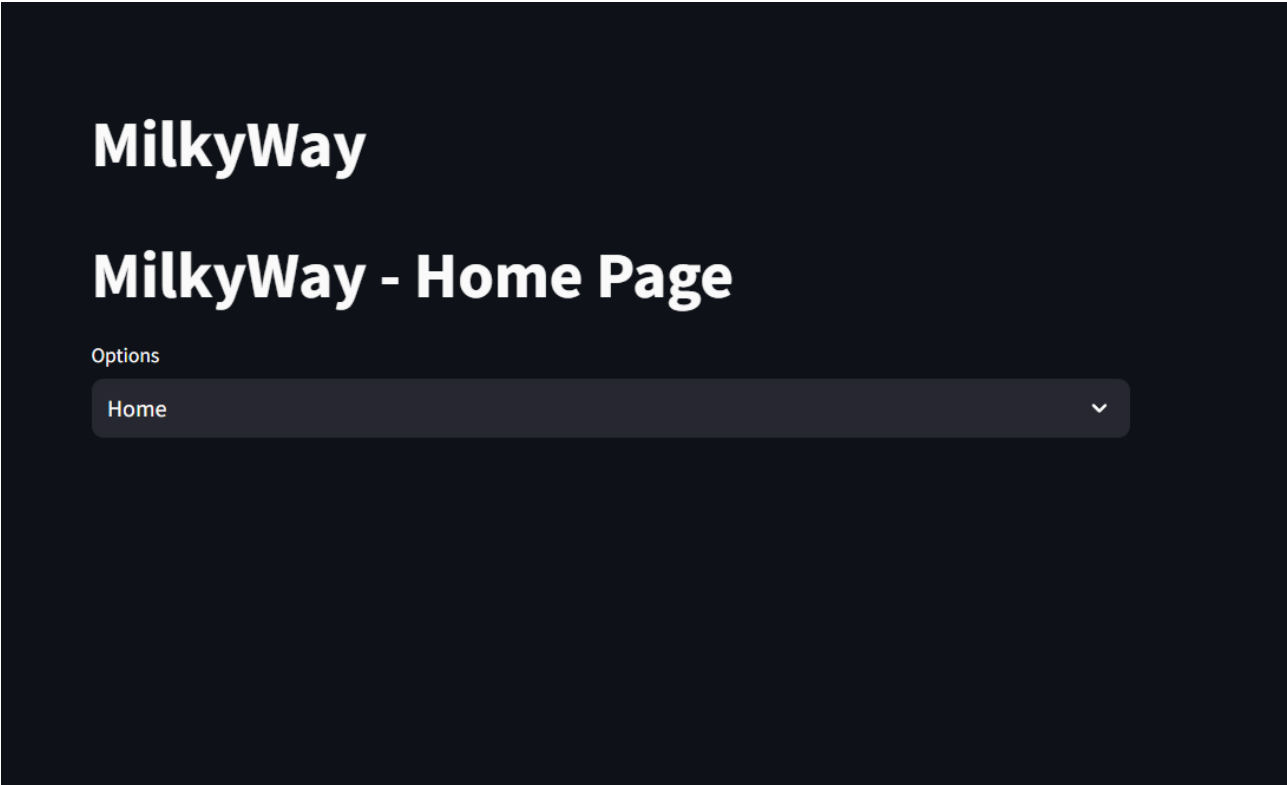
3)Display Entity:
Displaying stars

4)Insert new Entity:
Inserting Example_Star into stars

Add a stars Entry

star_id

| 4.00 | − | + |

star_name

Example_Star

star_type

Example_Star

star_distance

Example_Star

star_age

Example_Star

Add stars

stars added successfully!

MilkyWay

MilkyWay - Home Page

Options

Display ⌄

Select a table to view

stars ⌄

	star_id	star_name	star_type	star_distance	star_age
0	1	Sun	yellow dwarf	148 mil km	4.38 B
1	2	Proxima Centauri	Red Dwarf	4.24 LY	4.85 Gyr
2	3	Rigil Kentaurus	G2V	4.36 LY	4.85 Gyr
3	4	Example_Star	Example_Star	Example_Star	Example_Star

5)Update Entity:

Update a stars Entry

star_id to update

```
4
```

star_id

```
4                                                    −    +
```

star_name

```
Example_Star_Update
```

star_type

```
Example_Star
```

star_distance

```
Example_Star
```

star_age

```
Example_Star
```

[Update stars]

stars updated successfully!

MilkyWay - Home Page

Options

```
Display                                                          ⌄
```

Select a table to view

```
stars                                                           ⌄
```

	star_id	star_name	star_type	star_distance	star_age
0	1	Sun	yellow dwarf	148 mil km	4.38 B
1	2	Proxima Centauri	Red Dwarf	4.24 LY	4.85 Gyr
2	3	Rigil Kentaurus	G2V	4.36 LY	4.85 Gyr
3	4	Example_Star_Update	Example_Star	Example_Star	Example_Star

6)Delete Entity:

MilkyWay

MilkyWay - Home Page

Options

Delete ⌄

Select an entity to delete

stars ⌄

Delete a stars Entry

star_id to delete

4

Delete stars

stars deleted successfully!

MilkyWay - Home Page

Options

Display ⌄

Select a table to view

stars ⌄

	star_id	star_name	star_type	star_distance	star_age
0	1	Sun	yellow dwarf	148 mil km	4.38 B
1	2	Proxima Centauri	Red Dwarf	4.24 LY	4.85 Gyr
2	3	Rigil Kentaurus	G2V	4.36 LY	4.85 Gyr

7)Join Tables:
Joining tables stars and planets with common attribute star_id

Options

Join ⌄

Select first entity to join

stars ⌄

Select second entity to join

planets ⌄

Enter the common attribute for the join:

star_id

Join Tables

Perform Join

	star_id	star_name	star_type	star_distance	star_age	planet_id	planet_name	planet_type	p
0	1	Sun	yellow dwarf	148 mil km	4.38 B	1	Mercury	Terrestrial	7 s(
1	1	Sun	yellow dwarf	148 mil km	4.38 B	2	Earth	Rocky	5 s(
2	1	Sun	yellow dwarf	148 mil km	4.38 B	3	Mars	Terrestrial	1 s(