**Bob Cat Books**

Date: 7/15/2017

Database design:

|  |  |  |  |
| --- | --- | --- | --- |
| bb\_Account | | | |
| 1. | **bb\_user\_id** | Varchar | User id |
| 2. | bb\_pwd | Varchar | Password |
| 3. | bb\_first\_name | Varchar |  |
| 4. | bb\_last\_name | Varchar |  |
| 5. | bb\_mail\_id | Varchar | E-mail address |
| 6. | bb\_mailing\_address\_line1 | Varchar |  |
| 7. | bb\_mailing\_address\_city | Varchar |  |
| 8. | bb\_mailing\_address\_state | Varchar(2) |  |
| 9. | bb\_mailing\_address\_zip | Number |  |
| 10. | bb\_billing\_address\_line1 | Varchar |  |
| 11. | bb\_billing\_address\_city | Varchar |  |
| 12. | bb\_billing\_address\_state | Varchar(2) |  |
| 13. | bb\_billing\_address\_zip | Number |  |
| 14. | bb\_credit\_card\_number | number |  |
| 15. | bb\_credit\_card\_type | Varchar | can be ‘visa’/’master card’/’Discover’/’American Express’ |
| 16. | bb\_card\_expiration\_date | Date |  |

CREATE TABLE IF NOT EXISTS bb\_Account(

bb\_user\_id VARCHAR(20) PRIMARY KEY,

bb\_pwd VARCHAR(20),

bb\_first\_name VARCHAR(50),

bb\_last\_name VARCHAR(50),

bb\_mail\_id VARCHAR(50) UNIQUE,

bb\_mailing\_address\_line1 VARCHAR(50),

bb\_mailing\_address\_city VARCHAR(50),

bb\_mailing\_address\_state VARCHAR(2),

bb\_mailing\_address\_zip INTEGER(5),

bb\_billing\_address\_line1 VARCHAR(50),

bb\_billing\_address\_city VARCHAR(50),

bb\_billing\_address\_state VARCHAR(2),

bb\_billing\_address\_zip INTEGER(5),

bb\_credit\_card\_number INTEGER(16) UNIQUE,

bb\_credit\_card\_type VARCHAR(20),

bb\_card\_expiration\_year INTEGER(4),

bb\_card\_expiration\_month INTEGER(2),

)

|  |  |  |  |
| --- | --- | --- | --- |
| bb\_book | | | |
| 1. | **bb\_isbn** | number | isbn number of the book |
| 2. | bb\_title | Varchar |  |
| 3. | bb\_author | Varchar |  |
| 4. | bb\_price | decimal(5,2) |  |
| 5. | bb\_condition\_book | Varchar | Can be either ‘new’ or ‘used’ |
| 6. | bb\_front\_page\_book | Varchar | link to the front page image |
| 7. | bb\_book\_discipline\_id | Varchar | references bb\_discipline\_id of bb\_Discipline |

CREATE TABLE bobcat\_books.books(

bb\_isbn INTEGER PRIMARY KEY,

bb\_title VARCHAR(50),

bb\_price DECIMAL(5, 2),

bb\_condition\_book VARCHAR(50),

bb\_front\_page\_book VARCHAR(50),

bb\_book\_discipline\_id VARCHAR(50) REFERENCES bb\_Discipline(bb\_discipline\_id)

)

|  |  |  |  |
| --- | --- | --- | --- |
| bb\_Discipline | | | |
| 1. | **bb\_discipline\_id** | number |  |
| 2. | bb\_discipline\_name | Varchar | like maths/ computer science/geography |

CREATE TABLE bobcat\_books.bb\_Discipline(

bb\_discipline\_id INTEGER PRIMARY KEY,

bb\_discipline\_name VARCHAR(20)

)

[ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) `bb\_discipline` CHANGE `bb\_discipline\_id` `bb\_discipline\_id`[VARCHAR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(2) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL;

|  |  |  |  |
| --- | --- | --- | --- |
| bb\_Course\_details | | | |
| 1. | **bb\_course\_id** | Varchar(6) |  |
| 2. | bb\_course\_name | Varchar |  |
| 3. | bb\_subject\_id | Varchar | references bb\_discipline\_id of bb\_Discipline |

CREATE TABLE bobcat\_books.bb\_Course\_details(

bb\_course\_id VARCHAR(6) PRIMARY KEY,

bb\_course\_name VARCHAR(50),

bb\_subject\_id VARCHAR(2) REFERENCES bb\_Discipline(bb\_discipline\_id)

)

|  |  |  |  |
| --- | --- | --- | --- |
| bb\_Professor | | | |
| 1. | **bb\_professor\_name** | Varchar(50) |  |
| 2. | **bb\_course\_id** | Varchar(6) | references bb\_course\_id of bb\_Course\_details |

CREATE TABLE bobcat\_books.bb\_Professor(

bb\_professor\_name VARCHAR(50),

bb\_course\_id VARCHAR(6) references bb\_Course\_details(bb\_course\_id),

PRIMARY KEY (bb\_professor\_name, bb\_course\_id)

)