

C: MySQL Stored Procedure SQL Code

Stored Procedure Code:

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `AddImage`(IN iID INT, imagepath VARCHAR(100))
BEGIN
UPDATE tblissues
SET tblissues.Image = imagepath
WHERE tblissues.IssueID = iID;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CostForAccount`(IN aID INT)
BEGIN
SELECT SUM(PRICE) AS `Total Price (£)`
FROM collatedlist
WHERE collatedlist.AccountID = aID;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CostForList`(IN IID INT)
BEGIN
SELECT SUM(Price) AS `Total Price (£)`
FROM collatedlist
WHERE collatedlist.ListID = IID;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateAccount`(IN emailadd varchar(45), uname
VARCHAR(45))
BEGIN
INSERT INTO tblaccounts (Email, Username)
VALUES (emailadd, uname);
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateIssue`(IN sID INT, issNum INT, rrp FLOAT,
rDate date)
```

BEGIN

INSERT INTO tblissues (SeriesID, IssueNumber, Price, ReleaseDate)

VALUES (sID, issNum, rrp, rDate);

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateList`(IN aID INT)

BEGIN

INSERT INTO tbllists (AccountID)

VALUES (aID);

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateListIssue`(IN iID INT, IID INT)

BEGIN

INSERT INTO tbllistissues (IssueID, ListID)

VALUES (iID, IID);

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateNewIssueUsingSeriesName`(IN sName VARCHAR(45), IN iNum INT, IN cost FLOAT, IN rDate DATE)

BEGIN

DECLARE sID INT;

CALL GetSeriesIDFromSeriesName(sName, @sID);

INSERT INTO tblissues (SeriesID, IssueNumber, Price, ReleaseDate)

VALUES (@sID, iNum, cost, rDate);

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateNewListUsingUsername`(IN uName VARCHAR(45))

BEGIN

DECLARE aID INT;

CALL GetAccountIDFromUsername(uName, @aID);

INSERT INTO tbllists (AccountID)

VALUES (@aID);

END

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateNewSeriesUsingUsername`(IN pName  
VARCHAR(45), IN sName VARCHAR(45), IN author VARCHAR(45))
```

```
BEGIN
```

```
DECLARE pID INT;
```

```
CALL GetPubIDFromPubName(pName, @pID);
```

```
INSERT INTO tblseries (`Name`, Author, PublisherID )
```

```
VALUES (sName, author, @pID);
```

END

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreatePublisher`(IN pName VARCHAR(45))
```

```
BEGIN
```

```
INSERT INTO tblpublisher (`Name`)
```

```
VALUES (pName);
```

END

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateSeries`(IN sName VARCHAR(45), sAuthor  
VARCHAR(45), pID INT)
```

```
BEGIN
```

```
INSERT INTO tblseries (`Name`, Author, PublisherID)
```

```
VALUES (sName, sAuthor, pID);
```

END

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `CreateStock`(IN stockNum INT, iID INT )
```

```
BEGIN
```

```
INSERT INTO tblstock (StockNumber, IssueID)
```

```
VALUES (stockNum, iID);
```

END

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteAccountByPKID`(IN aID INT )
```

```
BEGIN
```

```
DELETE FROM tblaccounts
```

```
WHERE tblaccounts.AccountID = aID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteCheckedListItems`()
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.ListID = tbllists.ListID
```

```
AND tbllists.EmailSent = 1;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteCheckedLists`()
```

```
BEGIN
```

```
DELETE FROM tbllists
```

```
WHERE tbllists.EmailSent = 1;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteFromListItem`(IN IID INT, IN iID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.ListID = IID
```

```
AND tbllistissues.IssueID = iID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteIssueByPKID`(IN iID INT)
```

```
BEGIN
```

```
DELETE FROM tblissues
```

```
WHERE tblissues.IssueID = iID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteIssueBySeriesID`(IN sID INT)
```

```
BEGIN
```

```
DELETE FROM tblissues
```

```
WHERE tblissues.SeriesID = sID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteIssuesByPubID`(IN pID INT)
```

```
BEGIN
```

```
DELETE FROM tblissues
```

```
WHERE tblissues.SeriesID = tblseries.SeriesID
```

```
AND tblseries.PublisherID = pID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListByAccountID`(IN aID INT)
```

```
BEGIN
```

```
DELETE FROM tbllists
```

```
WHERE tbllists.AccountID = aID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListByPKID`(IN IID INT)
```

```
BEGIN
```

```
DELETE FROM tbllists
```

```
WHERE tbllists.ListID = IID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListContentFromView`(IN liID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE collatedlist.ListIssueID = liID
```

```
AND tbllistissues.ListIssueID = collatedlist.ListIssueID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListIssueByIssueID`(IN iID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.IssueID = iID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListIssueByListID`(IN IID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.ListID = IID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListIssueByPKID`(IN liID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.ListIssueID = liID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListIssuesByAccountID`(IN aID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.ListID = tbllists.ListID
```

```
AND tbllists.AccountID = aID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListIssuesByPubID`(IN pID INT)
```

```
BEGIN
```

```
DELETE FROM tbllistissues
```

```
WHERE tbllistissues.IssueID = tblissues.IssueID
```

```
AND tblissues.SeriesID = tblseries.SeriesID
```

```
AND tblseries.PublisherID = pID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteListIssuesBySeriesID`(IN sID INT)
```

BEGIN

DELETE FROM tbllistissues

WHERE tbllistissues.IssueID = tblissues.IssueID

AND tblissues.SeriesID = sID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteSentLists`()

BEGIN

CALL DeleteCheckedListItems();

CALL DeleteCheckedLists();

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteSeriesByPKID`(IN sID INT)

BEGIN

DEIETE FROM tblseries

WHERE tblseries.SeriesID = sID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteSeriesByPubID`(IN pID INT)

BEGIN

DEIETE FROM tblseries

WHERE tblseries.PublisherID = pID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteStockByIssueID`(IN iID INT)

BEGIN

DELETE FROM tblstock

WHERE tblstock.IssueID = iID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `DeleteStockByPKID`(IN sID INT)

```
BEGIN
```

```
DELETE FROM tblstock
```

```
WHERE tblstock.StockID = sID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetAccountByID`(IN aID INT)
```

```
BEGIN
```

```
SELECT Email, Username
```

```
FROM ckingprojectdb.tblaccounts
```

```
WHERE tblaccounts.AccountID = aID;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetAccountIDFromUsername`(IN uName  
VARCHAR(45), OUT aID INT)
```

```
BEGIN
```

```
SELECT AccountID INTO aID
```

```
FROM tblaccounts
```

```
WHERE tblaccounts.Username = uName;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetCompletedListIDs`()
```

```
BEGIN
```

```
SELECT ListID
```

```
FROM tbllists;
```

```
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetEmailFromAccountID`(IN aID INT)
```

```
BEGIN
```

```
SELECT Email
```

```
FROM tblaccounts
```

```
WHERE tblaccounts.AccountID = aID;
```


END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetEmailFromListID`(IN IID INT)

BEGIN

SELECT Email

FROM tblaccounts, tbllists

WHERE tbllists.ListID = IID

AND tbllists.AccountID = tblaccounts.AccountID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetIssueByID`(IN IID INT)

BEGIN

SELECT SeriesID, IssueNumber, Price, ReleaseDate

FROM ckingprojectdb.tblissues

WHERE tblissues.IssueID = IID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetListByID`(IN IID INT)

BEGIN

SELECT AccountID

FROM ckingprojectdb.tbllists

WHERE tbllists.ListID = IID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetListIssuesByList`(IN IID INTEGER)

BEGIN

SELECT * FROM ckingprojectdb.tbllistissues

WHERE tbllistissues.ListID = IID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetListIssueByID`(IN IID INT)

```
BEGIN

SELECT IssueID, ListID

FROM ckingprojectdb.tbllistissues

WHERE tbllistissues.ListIssueID = liID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetListIssuesNamedByListID`(IN IID INT)

BEGIN

SELECT `Name`, Author, IssueNumber, Price, ReleaseDate, ListIssueID

FROM collatedlist

WHERE collatedlist.ListID = IID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetPubIDFromPubName`(IN pName
VARCHAR(45), OUT pID INT)

BEGIN

SELECT PublisherID INTO pID

FROM tblpublisher

WHERE tblpublisher.`Name` = pName;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetPublisherByID`(IN pID INT)

BEGIN

SELECT `Name`

FROM ckingprojectdb.tblpublisher

WHERE tblpublisher.PublisherID = pID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetPubNameBySeriesID`(IN sID INT)

BEGIN

SELECT tblpublisher.`Name`
```

```
FROM tblseries, tblpublisher
WHERE tblseries.SeriesID = sID
AND tblseries.PublisherID = tblpublisher.PublisherID;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetSeriesByID`(IN sID INT)
BEGIN
SELECT `Name`, Author, PublisherID
FROM ckingprojectdb.tblseries
WHERE tblseries.SeriesID = sID;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetSeriesIDFromSeriesName`(IN sName
VARCHAR(45), OUT sID INT)
BEGIN
    SELECT SeriesID INTO sID
    FROM tblseries
    WHERE tblseries.`Name` = sName;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetSeriesNameByIssueID`(IN iID INT)
BEGIN
SELECT tblseries.`Name`
FROM tblseries, tblissues
WHERE tblissues.IssueID = iID
AND tblissues.SeriesID = tblseries.SeriesID;
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetStockByID`(IN sID INT)
BEGIN
SELECT StockNumber, IssueID
```

```
FROM ckingprojectdb.tblstock  
WHERE tblstock.StockID = sID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `GetUsernameByListID`(IN IID INT)  
BEGIN  
SELECT tblaccounts.Username  
FROM tblaccounts, tbllists  
WHERE tbllists.ListID = IID  
AND tblaccounts.AccountID = tbllists.AccountID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAccount`(IN accID INT)  
BEGIN  
SELECT * FROM tblaccounts  
WHERE tblaccounts.AccountID = accID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllAccounts`()  
BEGIN  
SELECT * FROM tblaccounts;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllIssues`()  
BEGIN  
SELECT * FROM tblissues;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllListIssues`()  
BEGIN  
SELECT * FROM tbllistissues;
```

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllLists`()

BEGIN

SELECT * FROM tbllists;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllPublishers`()

BEGIN

SELECT * FROM tblpublisher;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllSeries`()

BEGIN

SELECT * FROM tblseries;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadAllStock`()

BEGIN

SELECT * FROM tblstock;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadIssue`(IN issueID INT)

BEGIN

SELECT * FROM tblissues

WHERE tblissues.IssueID = issueID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadList`(IN listID INT)

BEGIN

SELECT * FROM tbllists

```
WHERE tbllists.ListID = listID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadListIssue`(IN LisIssID INT)  
BEGIN  
    SELECT * FROM tbllistissues  
    WHERE tbllistissues.ListIssueID = LisIssID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadPublisher`(IN pubID INT)  
BEGIN  
    SELECT * FROM tblpublisher  
    WHERE tblpublisher.PublisherID = pubID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadSeries`(IN seriID INT)  
BEGIN  
    SELECT * FROM tblseries  
    WHERE tblseries = seriID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `ReadStock`(IN stoID INT)  
BEGIN  
    SELECT * FROM tblstock  
    WHERE tblstock.StockID = stoID;  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `RemoveAccountAndLinkedData`(IN aID INT)  
BEGIN  
    CALL DeleteListIssuesByAccountID(aID);  
    CALL DeleteListByAccountID(aID);
```

```
CALL DeleteAccountByPKID(aID);  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `RemoveListAndLinkedData`(IN IID INT)  
BEGIN  
CALL DeleteListIssueByListID(IID);  
CALL DeleteListByPKID(IID);  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `RemovePublisherAndLinkedData`(IN pID INT)  
BEGIN  
CALL DeleteListIssuesByPubID(pID);  
CALL DeleteIssuesByPubID(pID);  
CALL DeleteSeriesByPubID(pID);  
CALL DeletePublisherByPKID(pID);  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `RemoveSeriesAndLinkedData`(IN sID INT)  
BEGIN  
CALL DeleteListIssuesBySeriesID(sID);  
CALL DeleteIssuesBySeriesID(sID);  
CALL DeleteSeriesByPKID(sID);  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `RetrieveUsernameByListID`(IN IID INT, OUT result  
VARCHAR(50))  
BEGIN  
SELECT tblaccounts.Username INTO result  
FROM tblaccounts, tbllists  
WHERE tblaccounts.AccountID = tbllists.AccountID  
AND tbllists.ListID = IID;
```

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `SetItemAsStocked`(IN iID INT, IN IID INT)

BEGIN

Update tbllistissues

Set tbllistissues.Stocked = 1

Where tbllistissues.IssueID = iID

And tbllistissues.ListID = IID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateAccountByID`(IN aID INT, emailAdd VARCHAR(45), uName VARCHAR(45))

BEGIN

UPDATE tblaccounts

SET tblaccounts.Email = emailAdd, tblaccounts.Username = uName

WHERE tblaccounts.AccountID = aID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateIssueByID`(IN iID INT, sID INT, issNum INT, cost FLOAT, rDate DATE)

BEGIN

UPDATE tblissues

SET tblissues.SeriesID = sID, tblissues.IssueNumber = issNum, tblissues.Price = cost,
tblissues.ReleaseDate = rDate

WHERE tblissues.IssueID = iID;

END

CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateIssueUsingSeriesName`(IN iID INT, IN sName VARCHAR(45), IN iNum INT, IN cost FLOAT, IN rDate DATE)

BEGIN

DECLARE sID INT;

CALL GetSeriesIDFromSeriesName(sName, @sID);


```
UPDATE tblissues  
  
SET SeriesID = @sID, IssueNumber = iNum, Price = cost, ReleaseDate = rDate  
  
WHERE tblissues.IssueID = iID;  
  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateListByID`(IN IID INT, aID INT)  
  
BEGIN  
  
UPDATE tbllists  
  
SET tbllists.AccountID = aID  
  
WHERE tbllists.ListID = IID;  
  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateListIssueByID`(IN liID INT, IID INT, iID INT)  
  
BEGIN  
  
UPDATE tbllistissues  
  
SET tbllistissues.ListID = IID, tbllistissues.IssueID = iID  
  
WHERE tbllistissues.ListIssueID = liID;  
  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateListItem`(IN liID INT)  
  
BEGIN  
  
update tbllistissues, tblstock  
  
Set tbllistissues.Stocked = 1, tblstock.StockNumber = tblstock.StockNumber - 1  
  
WHERE tbllistissues.ListIssueID = liID  
  
AND tbllistissues.IssueID = tblstock.IssueID  
  
AND tblstock.StockNumber > 0;  
  
END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateListUsingUsername`(IN IID INT, IN uName  
VARCHAR(45))  
  
BEGIN
```

```
DECLARE aID INT;

CALL GetAccountIDFromUsername(uName, @aID);

UPDATE tbllists

SET tbllists.AccountID = @aID

Where tbllists.ListID = IID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdatePublisherByID`(IN pID INT, pName
VARCHAR(45) )

BEGIN

UPDATE tblpublisher

SET tblpublisher.`Name` = pName

WHERE tblpublisher.PublisherID = pID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateSeriesByID`(IN sID INT, sName
VARCHAR(45), sAuthor VARCHAR(45), pID INT)

BEGIN

UPDATE tblseries

SET tblseries.`Name` = sName, tblseries.Author = sAuthor, tblseries.PublisherID = pID

WHERE tblseries.SeriesID = sID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateSeriesUsingPubname`(IN sID INT,IN
pName VARCHAR(45), IN sName VARCHAR(45), IN author VARCHAR(45))

BEGIN

DECLARE pID INT;

CALL GetPubIDFromPubName(pName, @pID);

UPDATE tblseries

SET tblseries.PublisherID = @pID, tblseries.`Name` = sName, tblseries.Author = author

WHERE tblseries.SeriesID = sID;

END
```

```
CREATE DEFINER=`ckingproject`@`%` PROCEDURE `UpdateStockByID`(IN sID INT, sNum INT, iID INT)
BEGIN
UPDATE tblstock
SET  tblstock.StockNumber = sNum, tblstock.IssueID = iID
WHERE tblstock.StockID = sID;
END
```