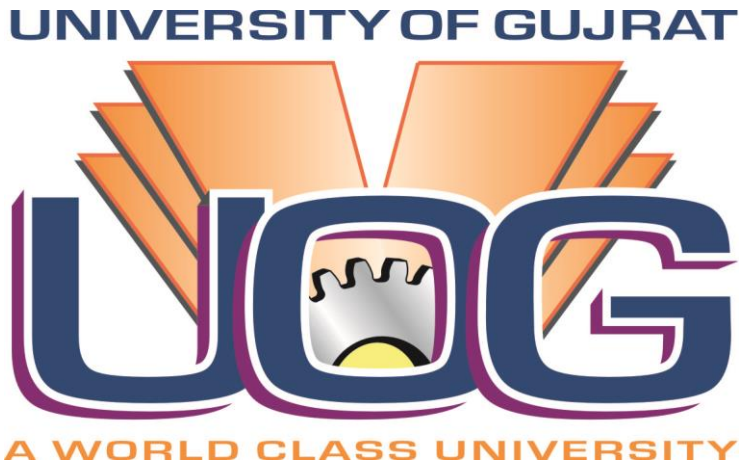

Docmentation Of Sports Store DateBase

Members

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Case Study For Sports Store Database Management System

Sports shop is the place where the sports equipments and sports clothes are sold. But sometimes you may not able to get the needed material in the particular sports shop. This may lead to some inconvenience. So keeping track of all the equipments and the sports items in the particular shop in the particular region is very important. The sports shop management application helps in managing the sports equipments and the sports clothes in a well organized way. This will be very useful project if the sports shop has a lot of equipments and the clothes to manage so that it can be managed in an easy way through this application.The user interface must be simple and easy to understand even by the common man. The database can be strong enough which will be capable of holding all the details or the information related to the sports shop. The features that can be included in the sports shop management system are as follows:

Sport Store Database: The items related to the sport can be managed in a well organized in a well organized way.

Sport clothes: The details of the sport clothes that are present in the sports store can be managed in a well organized way.

Employee database management: The details of the employees working in the particular sports shop can also be managed through this application.

Available Stock: The details of any stock that are available in the sports shop can be accessed with ease.

Stock management: The stocks that are present in the sports shop can be kept in track through the use of this application.

Sale Detail: The details of the sales that occur on the particular day are store and accounts details also saved.

Accounts Detail: The items in store or saled all payments record save in database which is helpful in our business.

Normalization:

1NF (Non-Repeative)

Item_Id	Item_Name	Customer_#	Bill
11	Bat,bowl	1	1100
22	Bowl	2	300

Item_Id	Item_Name	Customer_#	Bill
11	Bat	1	800
11	Bowl	1	300
22	Bowl	2	300

2NF (Full Functional Dependencey)

Item_Id	Item_Name	Customer_#	Bill
11	Bat	1	800
11	Bowl	1	300
22	Bowl	2	300

Item_Id	Item_Name	Bill
11	Bat	800
11	Bowl	300
22	Bowl	300

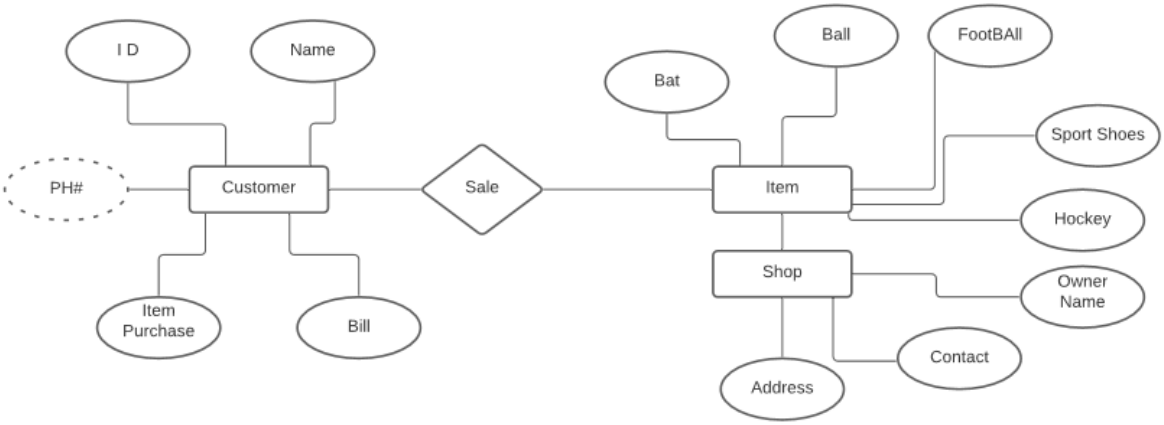
Customer_#	Bill
11	800
11	300
22	300

3NF (No Transitive Dependency Exist)

Item_Id	Item_Name		Bill
11	Bat		800
11	Bowl		300
22	Bowl		300

Item_Name	Bill
Bat	800
Bowl	300

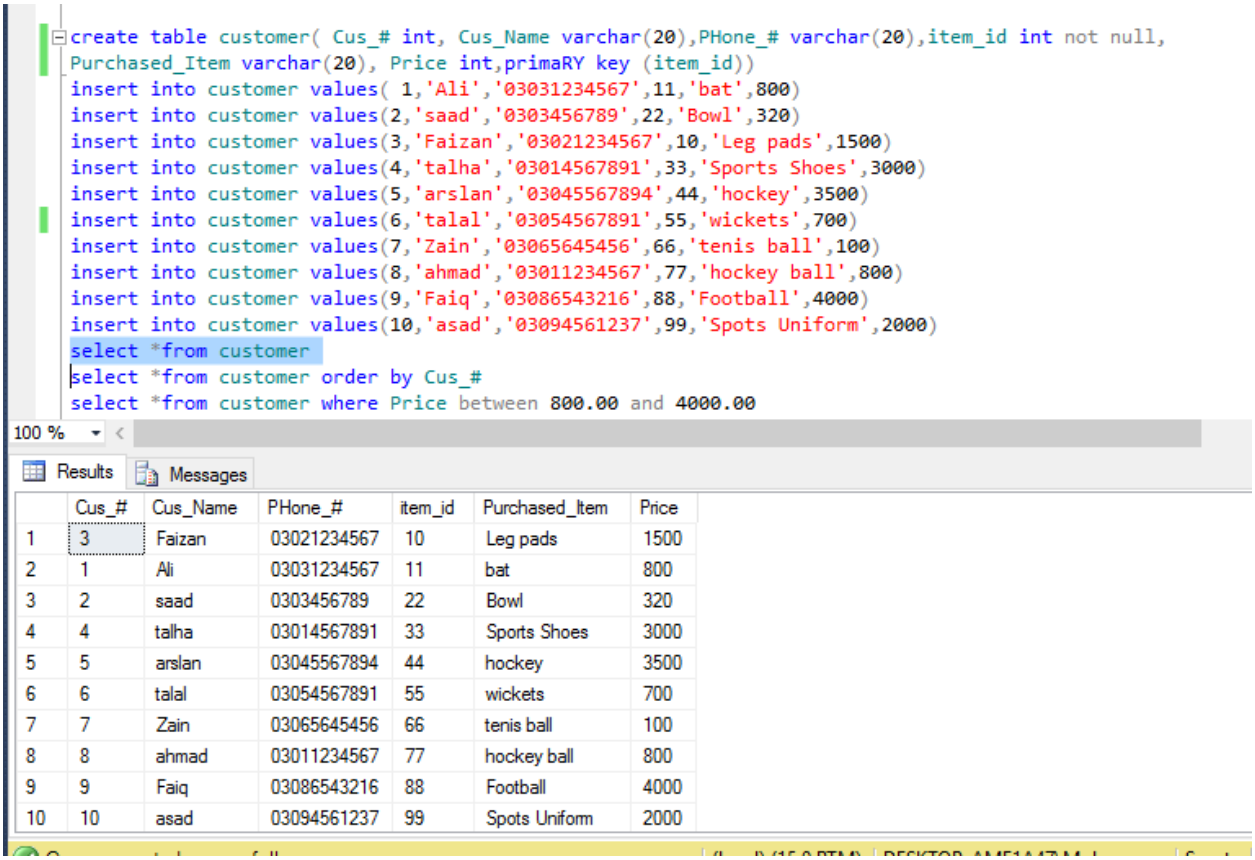
ERD Diaghram For Sports Store:



SQL Quries:

There are three tables in our database first one is customer that have store the information of customer,seconde table is saled reaming items that have store the record of stock and third table is Store Amonuts that have the data of acounts ,rates and prices are stored .

Customer Table which stores the customer record:



```
create table customer( Cus_# int, Cus_Name varchar(20),PHone_# varchar(20),item_id int not null,
Purchased_Item varchar(20), Price int,primaRY key (item_id))
insert into customer values( 1,'Ali','03031234567',11,'bat',800)
insert into customer values(2,'saad','0303456789',22,'Bowl',320)
insert into customer values(3,'Faizan','03021234567',10,'Leg pads',1500)
insert into customer values(4,'talha','03014567891',33,'Sports Shoes',3000)
insert into customer values(5,'arslan','03045567894',44,'hockey',3500)
insert into customer values(6,'talal','03054567891',55,'wickets',700)
insert into customer values(7,'Zain','03065645456',66,'tenis ball',100)
insert into customer values(8,'ahmad','03011234567',77,'hockey ball',800)
insert into customer values(9,'Faiq','03086543216',88,'Football',4000)
insert into customer values(10,'asad','03094561237',99,'Spots Uniform',2000)
select *from customer
select *from customer order by Cus_#
select *from customer where Price between 800.00 and 4000.00
```

100 %

Results | Messages

	Cus_#	Cus_Name	PHone_#	item_id	Purchased_Item	Price
1	3	Faizan	03021234567	10	Leg pads	1500
2	1	Ali	03031234567	11	bat	800
3	2	saad	0303456789	22	Bowl	320
4	4	talha	03014567891	33	Sports Shoes	3000
5	5	arslan	03045567894	44	hockey	3500
6	6	talal	03054567891	55	wickets	700
7	7	Zain	03065645456	66	tenis ball	100
8	8	ahmad	03011234567	77	hockey ball	800
9	9	Faiq	03086543216	88	Football	4000
10	10	asad	03094561237	99	Spots Uniform	2000

Second table is Saled_Remaining_items which have the data of stocks:

```
create table Saled_Remaining_Items(Item_id int,item_Name varchar(20),total_items int,
saled_items int,Remaing_items int, Sale_Price int,primary key (item_id),  )
insert into Saled_Remaining_Items values( 11,'Bat',100,65,35,800)
insert into Saled_Remaining_Items values(22,'Bowl',100,21,79,320)
insert into Saled_Remaining_Items values(33,'Sports Shoes',100,30,70,3000)
insert into Saled_Remaining_Items values(44,'Hockey',100,30,60,3500)
insert into Saled_Remaining_Items values(55,'Wickets',100,80,20,700)
insert into Saled_Remaining_Items values(66,'Tenis Ball',100,60,40,100)
insert into Saled_Remaining_Items values(77,'Hockey Ball',100,50,50,800)
insert into Saled_Remaining_Items values(88,'Football',100,70,30,4000)
insert into Saled_Remaining_Items values(99,'Sports Uniform',100,80,20,2000)
insert into Saled_Remaining_Items values(10,'leg pads',100,30,70,1500)
insert into Saled_Remaining_Items values(111,'Gloves',100,65,35,600)
insert into Saled_Remaining_Items values(112,'Shoping bags',1000,700,300,0)

select *from saled_remaining_items
delete from saled_remaining_items where item_id=112
```

100 %

Results | Messages

	Item_id	item_Name	total_items	saled_items	Remaing_items	Sale_Price
1	10	leg pads	100	30	70	1500
2	11	Bat	100	65	35	800
3	22	Bowl	100	21	79	320
4	33	Sports Shoes	100	30	70	3000
5	44	Hockey	100	30	60	3500
6	55	Wickets	100	80	20	700
7	66	Tenis Ball	100	60	40	100
8	77	Hockey Ball	100	50	50	800
9	88	Football	100	70	30	4000
10	99	Sports Uniform	100	80	20	2000

Stocks Detail:

```
select sum(remaing_items) from Saled_Remaining_Items -- Remaing items in store
select sum(total_items) from Saled_Remaining_Items  -- Total items
select sum(saled_items) from Saled_Remaining_Items  -- Saled items

--Alter Table saled_remaining_items add constraint (item_id int) primary key(item_id)
```

100 %

Results | Messages

	(No column name)
1	509

	(No column name)
1	1100

	(No column name)
1	581

Third Table that Indicates the accounts and prices :

```
create table Store_Amounts(item_id int,item_names varchar(20),purchased_rate int,sale_rate int,
profit int,primary key (item_id) )
insert into Store_Amounts values(11,'Bat',600,800,200)
insert into Store_Amounts values(22,'Bowl',200,320,120)
insert into Store_Amounts values(33,'Sports Shoes',2000,3000,1000)
insert into Store_Amounts values(44,'Hockey',2700,3500,800)
insert into Store_Amounts values(55,'Wickets',500,700,200)
insert into Store_Amounts values(66,'Tenis Ball',70,100,30)
insert into Store_Amounts values(77,'Hockey Ball',600,800,200)
insert into Store_Amounts values(88,'Football',3100,4000,900)
insert into Store_Amounts values(99,'Sports Uniform',1600,2000,400)
insert into Store_Amounts values(10,'leg pads',1200,1500,300)
insert into Store_Amounts values(111,'Gloves',400,600,200)
select *from Store_Amounts
--total profit per item
select item_names, profit * saled_items from Store_Amounts , Saled_Remaining_Items
```

100 %

Results | Messages

	item_id	item_names	purchased_rate	sale_rate	profit
1	10	leg pads	1200	1500	300
2	11	Bat	600	800	200
3	22	Bowl	200	320	120
4	33	Sports Shoes	2000	3000	1000
5	44	Hockey	2700	3500	800
6	55	Wickets	500	700	200
7	66	Tenis Ball	70	100	30
8	77	Hockey Ball	600	800	200
9	88	Football	3100	4000	900
10	99	Sports Unif...	1600	2000	400

Accounts Details:

```
select item_names, profit ~ saled_items from Store_Amounts , Saled_Remaining_Items
--total investment in store
select sum(total_items*purchased_rate) from Store_Amounts,Saled_Remaining_Items
--total saled amount
select sum(saled_items*Sale_Price) from Store_Amounts,Saled_Remaining_Items
--total profit
select sum(saled_items*profit) from Store_Amounts,Saled_Remaining_Items

select *from Saled_Remaining_Items where Remaing_items <50

select *from Saled_Remaining_Items where Sale_Price between 2000 AND 3500
```

100 %

Results | Messages

	(No column name)
1	14267000

	(No column name)
1	9676920

	(No column name)
1	2527350

Joins That we used in our project are:

```
select *from Saled_Remaining_Items where Sale_Price between 2000 AND 3500
--inner join
select *from customer inner join Saled_Remaining_Items on customer.item_id=Saled_Remaining_Items.item_id
--left join
select *from customer left join Saled_Remaining_Items on customer.item_id=Saled_Remaining_Items.item_id
--right join
select *from customer right join Saled_Remaining_Items on customer.item_id=Saled_Remaining_Items.item_id
--full outer join
select *from customer full outer join Saled_Remaining_Items on customer.item_id=Saled_Remaining_Items.item_id
--- join
select item_names,sale_rate from Store_Amounts
join  Saled_Remaining_Items
on  (Saled_Remaining_Items.Item_id = Store_Amounts.item_id)


-----Views
create view rate_list
AS
```

100 %

Results | Messages

	Cus_#	Cus_Name	PHone_#	item_id	Purchased_Item	Price	Item_id	item_Name	total_items	saled_items	Remaing_items	Sale_Price
4	4	talha	03014567891	33	Sports Shoes	3000	33	Sports Shoes	100	30	70	3000
5	5	arslan	03045567894	44	hockey	3500	44	Hockey	100	30	60	3500
6	6	talal	03054567891	55	wickets	700	55	Wickets	100	80	20	700
7	7	Zain	03065645456	66	tenis ball	100	66	Tenis Ball	100	60	40	100
8	8	ahmad	03011234567	77	hockey ball	800	77	Hockey Ball	100	50	50	800
9	9	Faiq	03086543216	88	Football	4000	88	Football	100	70	30	4000
10	10	asad	03094561237	99	Spots Uniform	2000	99	Sports Unif...	100	80	20	2000
11	NULL	NULL	NULL	NULL	NULL	NU...	111	Gloves	100	65	35	600

Views Are also we used in our project:

```
-----Views
create view rate_list
AS
select item_names,sale_rate from Store_Amounts
join  Saled_Remaining_Items
on  (Saled_Remaining_Items.Item_id = Store_Amounts.item_id)
SELEct *from rate_list

----View 2
create view by_Name
as
select item_names,sale_rate from Store_Amounts
join  Saled_Remaining_Items
on  (Saled_Remaining_Items.Item_id = Store_Amounts.item_id)
where item_Name ='bat'

select *from by_Name
select *from rate_list
```

100 %

Results | Messages

	item_names	sale_rate
1	Bat	800

	item_names	sale_rate
1	leg pads	1500
2	Bat	800
3	Bowl	320
4	Sports Shoes	3000
5	Hockey	3500
6	Wickets	700
7	Tenis Ball	100
8	Hockey Ball	800

Query executed successfully. (local) (15.0 RTM)