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## Avancerad gränssnittsutveckling i Java



### "Red line"- uppgift Yathzee Game - Slutrapport

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**07/02/2016**

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# Description of The Project

The project was to create a design for Yahtzee. Yahtzee is a dice game that can be play with in a group. The group version consists of a number of players. The player will win who have the highest score. In this game there are some rules.

- In this game, we have five dices and there is three shots in each turn. Players can decide which dice to reroll.
- The players has to gain as many points as possible based on certain rules.
- Game ends after all score boxes are filled and it will fill in 13 turns.
- The object of the game is to maximize your total score

For this game the main mission of the project is to create a database in sql server. Under that database, there is need to design some tables so that we can insert values into the table and after that we can link the tables with our java code to retrieve the values from those tables and we can see the details whatever we want.

# Project Planning

I have divided project in some parts. First, I think about the tables that I need to use in my program. For this I made rough tables. I first think like that what can be the functions and how they can connect with tables. Then I started to create tables.

After that, I think about the keys in the tables. Then I have written code and linked the code with my database. I connected all the code with my tables and try to reterive the values from the table.

In the last, I gave the final touch to may project, where I have made project report and described the project and the planning details for tables.

**Tables** - I have created 3 tables such as dbo.Game, dbo.Player and dbo.Round. I have added the columns in these tables and created keys.

## Game Table

The screenshot shows the SQL Server Enterprise Manager interface. In the Object Explorer, the 'Game' table is selected under the 'dbo' schema of the 'ECYatzy' database. The SQL Query window displays a query to select the top 1000 rows from the 'Game' table, ordered by 'GameID'. The results are displayed in a table with 5 columns: GameID, PlayerID, GameScore, and PlayDate.

```
SQLQuery1.sql - LEN...SS.master (sa (52))  
/***** Script for SelectTopNRows command from SSMS *****/  
SELECT TOP 1000 [GameID]  
      ,[PlayerID]  
      ,[GameScore]  
      ,[PlayDate]  
FROM [ECYatzy].[dbo].[Game]
```

	GameID	PlayerID	GameScore	PlayDate
1	101	11	212	2015-11-21
2	101	12	221	2015-11-21
3	102	13	195	2013-12-11
4	102	14	201	2013-12-11

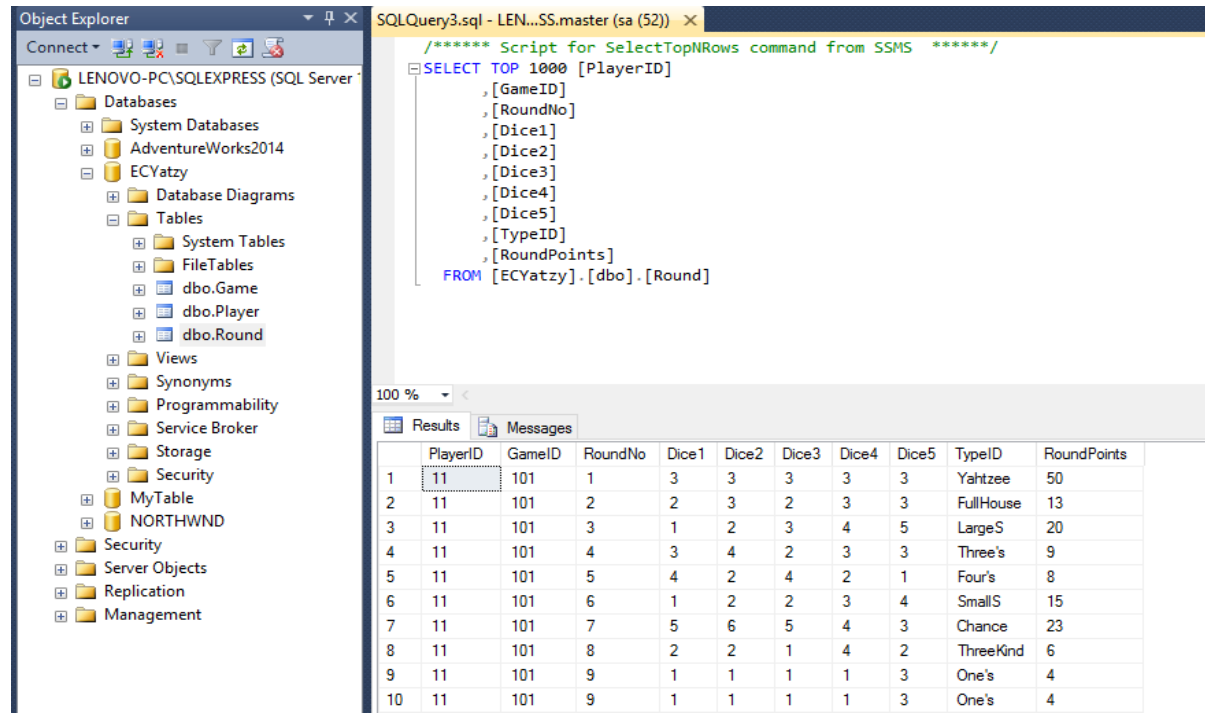
## Player Table

The screenshot shows the SQL Server Enterprise Manager interface. In the Object Explorer, the 'Player' table is selected under the 'dbo' schema of the 'ECYatzy' database. The SQL Query window displays a query to select the top 1000 rows from the 'Player' table, ordered by 'PlayerID'. The results are displayed in a table with 5 columns: PlayerID, GameID, GameScore, and PlayDate.

```
SQLQuery1.sql - LEN...SS.master (sa (52))  
/***** Script for SelectTopNRows command from SSMS *****/  
SELECT TOP 1000 [PlayerID]  
      ,[GameID]  
      ,[GameScore]  
      ,[PlayDate]  
FROM [ECYatzy].[dbo].[Player]
```

	PlayerID	GameID	GameScore	PlayDate
1	11	101	212	2015-11-21
2	12	101	221	2015-11-21
3	13	102	195	2013-12-11
4	14	102	201	2013-12-11

# Round Table



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'LENOVO-PC\SQLEXPRESS (SQL Server)'. The 'Databases' folder is expanded, showing 'System Databases', 'AdventureWorks2014', and 'ECYatzy'. Under 'ECYatzy', the 'Tables' folder is expanded, showing 'System Tables', 'FileTables', 'dbo.Game', 'dbo.Player', and 'dbo.Round'. The 'dbo.Round' table is selected. The main pane shows a SQL query in the 'SQLQuery3.sql' window. The query is a SELECT statement with a TOP 1000 clause, selecting columns from the 'dbo.Round' table. The results pane at the bottom shows the output of the query, which is a table with 11 columns: PlayerID, GameID, RoundNo, Dice1, Dice2, Dice3, Dice4, Dice5, TypeID, and RoundPoints. The results are sorted by RoundPoints in descending order, with the first row having a RoundPoints value of 50.

```
SELECT TOP 1000 [PlayerID]
, [GameID]
, [RoundNo]
, [Dice1]
, [Dice2]
, [Dice3]
, [Dice4]
, [Dice5]
, [TypeID]
, [RoundPoints]
FROM [ECYatzy].[dbo].[Round]
```

	PlayerID	GameID	RoundNo	Dice1	Dice2	Dice3	Dice4	Dice5	TypeID	RoundPoints
1	11	101	1	3	3	3	3	3	Yahtzee	50
2	11	101	2	2	3	2	3	3	FullHouse	13
3	11	101	3	1	2	3	4	5	LargeS	20
4	11	101	4	3	4	2	3	3	Three's	9
5	11	101	5	4	2	4	2	1	Four's	8
6	11	101	6	1	2	2	3	4	SmallS	15
7	11	101	7	5	6	5	4	3	Chance	23
8	11	101	8	2	2	1	4	2	ThreeKind	6
9	11	101	9	1	1	1	1	3	One's	4
10	11	101	9	1	1	1	1	3	One's	4

## Reflection

I was studied SQL Server and made connections between coding and tables. I really enjoyed this subject. First, I was little bit buried, if I will able to do this project or not but, I am able to do this project.

