# **Assignment 22 CASE STUDY 5 Hospital Data**

#### Objective - 1

#### Load file into spark

## Objective - 2

➤ What is the average amount of AverageCoveredCharges per state

```
val b =spark.sql("SELECT ProviderState, AVG(AverageCoveredCharges) FROM
hospital GROUP BY ProviderState")
```

➤ find out the AverageTotalPayments charges per state

```
val c =spark.sql("SELECT ProviderState, AVG(AverageTotalPayments) FROM
hospital GROUP BY ProviderState")
```

➤ find out the AverageMedicarePayments charges per state.

```
val d =spark.sql("SELECT ProviderState, AVG(AverageMedicarePayments) FROM
hospital GROUP BY ProviderState")
```

### Objective - 3

- ➤ Find out the total number of Discharges per state and for each disease
- ➤ Sort the output in descending order of totalDischarges

```
val e =spark.sql("SELECT ProviderState, DRGDefinition AS Disease,
SUM(TotalDischarges) AS Total FROM hospital GROUP BY
ProviderState, DRGDefinition ORDER BY Total DESC ")
```

### **CODE SNIPPET**

### **OUT PUT screen shots:**

```
|-- DRGDefinition: string (nullable = true)
|-- ProviderId: integer (nullable = true)
|-- ProviderName: string (nullable = true)
|-- ProviderStreetAddress: string (nullable = true)
|-- ProviderState: string (nullable = true)
|-- ProviderState: string (nullable = true)
|-- ProviderSide: integer (nullable = true)
|-- AverageCoveredCharges: double (nullable = true)
|-- AverageTotalPayments: double (nullable = true)
|-- AverageMedicarePayments: double (nul
```

	State Disease 	Total  +
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	871 - SEPTICEMIA OR SEVERE SEPSIS W/O MV 96+ HOURS W MCC	
	392 - ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC	
IL	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	690 - KIDNEY & URINARY TRACT INFECTIONS W/O MCC	
	392 - ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	690 - KIDNEY & URINARY TRACT INFECTIONS W/O MCC	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
	470 - MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	
IL	871 - SEPTICEMIA OR SEVERE SEPSIS W/O MV 96+ HOURS W MCC	
		15548
only show	ing top 20 rows	