



# **CSE 301: Database Systems [Summer 2020]**

## **Project Report**

Tour de France 2020

`https://apex.oracle.com/pls/apex/jni\_summer\_2020/r/tour-de-france-2020/home?session=716698210357398`

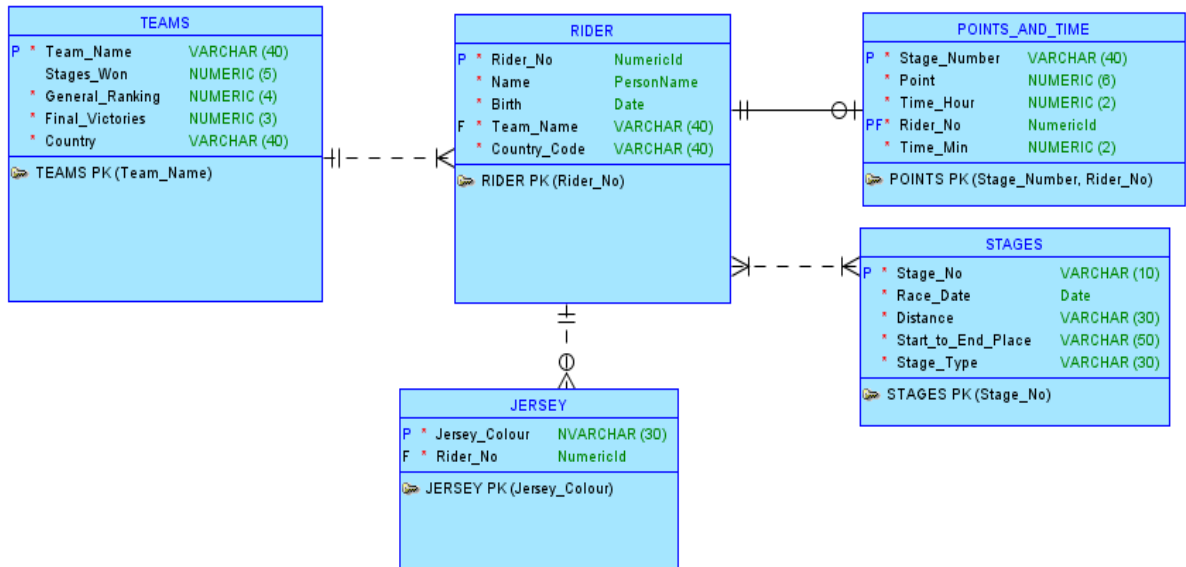
**Course Code and Section: CSE301(2)**

**Submitted by:**

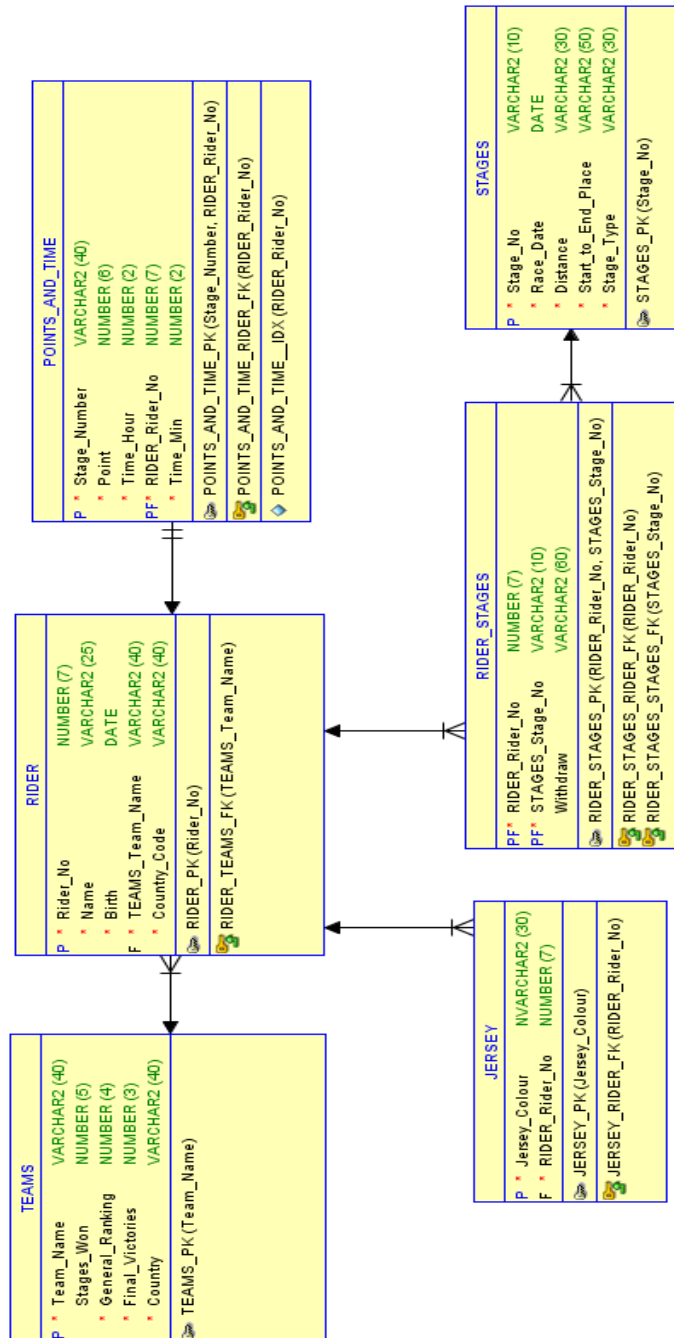
Jannatul Naim

Id: 2017-2-60-029

## 1. Final version of the E-R Model of the Project



## 2. Final Version of the Relational Data Model of the Project



### 3. Implementation Checklist


Description	Remarks
Project ID	Application 121373
Workspace Name	JNI_SUMMER_2020
Workspace Email	2017-2-60-029@STD.EWUBD.EDU
Workspace Password	99babama
Authentication Type	Custom
Username and Password to Login	
admin	123456
user1	user123
user2	user2123
user3	user3123
Uploaded and Displayed Images in Reports	Yes
Implemented Page-wise Authorization	Yes
Number of Reports with Forms	2
Number of Master-detail Forms	1
Number of Reports based on Queries, Aggregate Queries	1
Number of Parameterized Reports	1
Number of Graphs/Charts	1
Included any trigger/other feature which is not taught in class. If yes, please explain briefly.	No
Write the most unique feature/functionality in your application or the page of your application which you are proud of. Explain briefly.	For every individual stage we have showed first three riders.

## 4. Reports with Forms

Report Page Number and Name	Form Page Number and Name	Table
9-RIDER Report	10-RIDER Form	RIDER
15-TEAMS Report	16-TEAMS Form	TEAMS
12- Points_and_Time Report	13- Points_and_Time Form	POINTS_AND_TIME
26- Withdraw Report	27- Withdraw Form	RIDER_STAGES

The screenshot displays the 'RIDER form' interface within the TOUR France application. The form is structured with a header bar, a title bar, and a main content area. The main content area contains several input fields for rider information and file upload. The fields are: Rider No, Name, Birth (with a calendar icon), Teams Team Name, Country Code, File Lob (with a 'Choose file' button and a folder icon), File Name, File Mimetype, File Updatedate (two instances), and File Characterset. At the bottom, there are 'Cancel' and 'Create' buttons. The top navigation bar shows the TOUR France logo and a user profile 'admin'.

Figure 4.1: RIDER


admin

## RIDER Report







	Rider No	Name	Birth	Teams Team Name	Country Code	Image
	68	RAFAEL VALLS FERRI	6/25/1987	BAHRAIN - MCLAREN	ESP	
	34	PIERRE LATOUR	10/12/1993	AG2R LA MONDIALE	FRA	
	44	RÉMI CAVAGNA	8/10/1995	DECEUNINCK - QUICK - STEP	FRA	
	15	ROBERT GESINK	5/31/1986	TEAM JUMBO - VISMA	SEPP	
	55	MATTHIEU LADAGNOUS	12/12/1984	GROUPAMA - FDJ	FRA	
	38	ALEXIS VUILLERMOZ	6/1/1988	AG2R LA MONDIALE	FRA	
	4	JONATHAN CASTROVIEJO	4/27/1987	INEOS GRENADIERS	ESP	

Figure 4.2: RIDER

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Points\_and\_Time Report \

# Points\_and\_Time Form

Points\_and\_Time Form

Stage Number

Rider No

Time In Seconds

Stage Type

Hill Point

Flat Point

Cancel

Create

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Figure 4.3: POINTS\_AND\_TIME


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## Points\_and\_Time Report

	Stage Number	Rider No	Time In Seconds	Stage Type	Hill Point	Flat Point
	STAGE 11	13	14451	FLAT	20	15
	STAGE 11	16	144387	FLAT	10	14
	STAGE 11	21	14445	FLAT	13	13
	STAGE 11	6	14451	FLAT	17	5
	STAGE 11	1	14455	FLAT	9	6
	STAGE 11	41	14461	FLAT	2	7
	STAGE 11	2	14401	FLAT	1	9
	STAGE 7	21	12705	FLAT	15	10
	STAGE 7	13	12743	FLAT	1	8
	STAGE 7	56	12783	FLAT	2	2
	STAGE 7	52	12722	FLAT	17	11
	STAGE 7	51	12734	FLAT	10	6

Figure 4.4: POINTS\_AND\_TIME


admin

Withdraw Report \

## Withdraw form

Withdraw form

Cancel

Create

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Figure 4.5: RIDER\_STAGES





<div>  <span>admin</span> </div>			
Withdraw Report			
<div> <input type="text"/> <input type="button" value="Go"/> <input type="button" value="Actions"/> <input type="button" value="Create"/> </div>			
	Rider Rider No	Stages Stage No	Withdraw
	157	STAGE 2	DNS
	126	STAGE 3	withdrawal
	22	STAGE 11	DNS
	14	STAGE 17	outside the time limit
	52	STAGE 15	withdrawal
	68	STAGE 2	DNS
	155	STAGE 1	outside the time limit
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Figure 4.6: RIDER\_STAGES

admin

TEAMS Report \

# TEAMS Form

TEAMS Form

Team Name

Stages Won

General Ranking

Final Victories  
Country

File Lob  
Choose file

File Name

File Mimetype

File Updatedate

File Updatedate

File Characterset

Cancel

Create

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Figure 4.7: TEAMS





<div>  <span>admin</span> </div>						
TEAMS Report						
<div> <input type="text"/> <span>Go</span> <span>Actions</span> <span>Create</span> </div>						
	Team Name	Stages Won	General Ranking	Final Victories	Country	Image
	BAHRAIN - MCLAREN	0	3	0	BAHRAIN	
	BORA - HANSGROHE	1	14	0	GERMANY	
	GROUPAMA - FDJ	0	11	0	FRANCE	
	COFIDIS	0	13	0	FRANCE	
	TEAM JUMBO - VISMA	3	2	0	NETHERLANDS	
	AG2R LA MONDIALE	1	8	0	FRANCE	
	INEOS GRENADIERS	0	5	7	GREAT BRITAIN	
	DECEUNINCK - QUICK - STEP	2	17	0	BELGIUM	
	LOTTO SOUDAL	2	22	0	BELGIUM	
						1 - 9
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Figure 4.8: TEAMS

## 5. Master-Detail Form

Page Number and Name	Master Table (Parent)	Detail Table (Child)
17-TEAMS	TEAMS	RIDER

### Team\_wise\_Rider

Reset
 Create

AG2R LA MONDIALE  
FRANCE

BAHRAIN - MCLAREN  
BAHRAIN

BORA - HANSIGROHE  
GERMANY

COFIDIS  
FRANCE

DECEUNINCK - QUICK -  
STEP  
BELGIUM

GROUPEMA - FDI

#### Team Informations

 Edit

Stages Won	1
General Ranking	8
Final Victories	0
Country	FRANCE
Image	Alt text

#### Rider Informations


 +

	Rider No	Name	Birth	Country Code	Image
	34	PIERRE LATOUR	10/12/1993	FRA	
	38	ALEXIS VUILLERMOZ	6/1/1988	FRA	
	32	MIKAEL CHEREL	3/17/1986	FRA	

Figure 5.1: Team wise Rider Information

## 6. Reports based on Multi-Table and Aggregate Queries

Page Number and Name	Query Type	Report description
6- Tour de France Informations	Aggregate	this report shows the total number dropped out rider per stage, the total number of rider per country code, total number of team per country and also shows total number of stage per stage type.
8- ROUTE	Single table	This report shows information of all the stages.
24- Young Rider	Multi-Table	This report shows the champion among the younger riders.


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# ROUTE

Report 1

Stage No	Race Date	Distance	Start To End Place	Stage Type
STAGE 1	8/29/2020	156 KM	NICE MOYEN PAYS>NICE	FLAT
STAGE 2	8/30/2020	186 KM	NICE HAUT PAYS > NICE	MOUNTAIN
STAGE 3	8/31/2020	198 KM	NICE > SISTERON	FLAT
STAGE 4	9/1/2020	160.5 KM	SISTERON > ORCIÈRES-MERLETTE	HILLY
STAGE 5	9/2/2020	183 KM	GAP > PRIVAS	FLAT
STAGE 6	9/3/2020	191 KM	LE TEIL > MONT AIGOUAL	HILLY
STAGE 7	9/3/2020	149 KM	VALÈRES-SUR-ARONNE > LOUDENVILLE	MOUNTAIN
STAGE 9	9/6/2020	153 KM	PAU > LARUNS	MOUNTAIN
STAGE 10	9/8/2020	168.5 KM	CHÂTEAU-D OLÉRON > SAINT-MARTIN-DE-RÉ	FLAT
STAGE 11	9/9/2020	166.5 KM	CHÂTELAILLON-PLAGE > POITIERS	FLAT
STAGE 12	9/10/2020	218 KM	CHAUVIGNY > SARRAN CORRÈZE	HILLY
STAGE 13	9/11/2020	191.5 KM	CHÂTEL-GUYON > PUY MARY CANTAL	MOUNTAIN
STAGE 13	9/11/2020	191.5 KM	CHÂTEL-GUYON > PUY MARY CANTAL	MOUNTAIN
STAGE 14	9/12/2020	194 KM	CLERMONT-FERRAND > LYON	FLAT
STAGE 15	9/13/2020	174.5 KM	LYON > GRAND COLOMBIER	MOUNTAIN

Download

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Figure 6.1: Stage Information



Figure 6.2: Tour de France Information

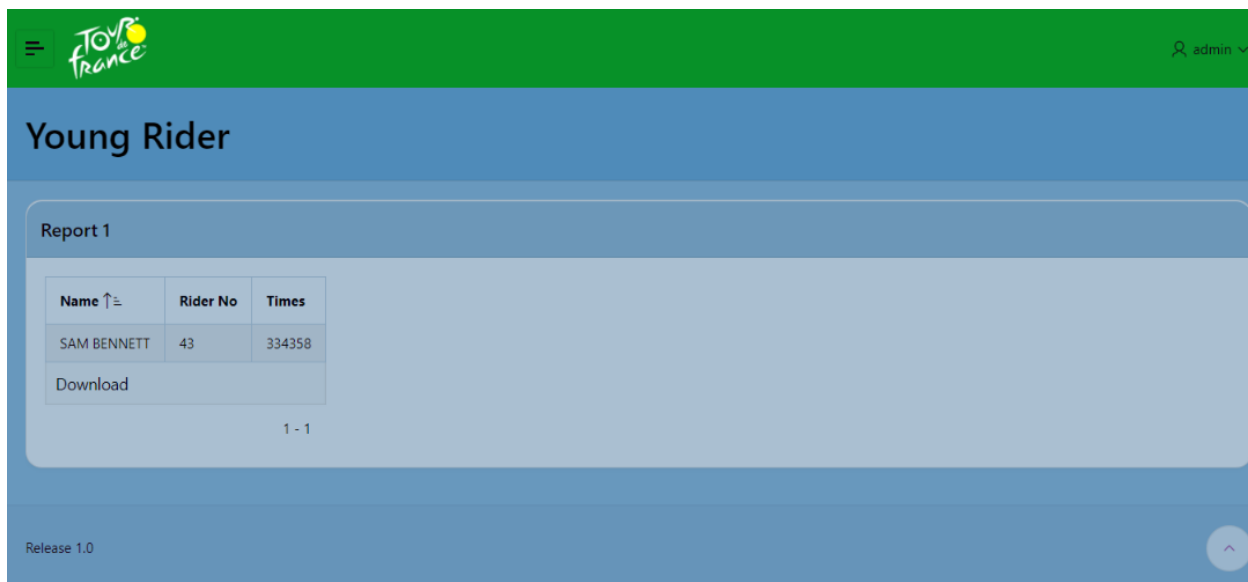



Figure 6.3: Young Rider

## 7. Parameterized Reports

Page Number and Name	Given Input	Report description
5-Withdrawal Riders Per Stage	Stage_No	this report shows the rider's information who dropped out in a particular stage.
32- Points Ranking S	Stage_No	This report shows points ranking in a particular stage.
11-Youth Ranking	Stage_No	This report shows youth ranking in a particular stage.
30-Climber Ranking S	Stage_No	This report shows climber ranking in a particular stage.
25-Individual Ranking	Stage_No	This report shows the ranking from the starting to the current stage using time.
7-Points Ranking G	Stage_No	This report shows the ranking from the starting to the current stage using points.
33-Youth Ranking G	Stage_No	This report shows the ranking from the starting to the current stage using time among the younger riders.
29-Climber Ranking G	Stage_No	This report shows the ranking from the starting to the current stage using points for mountain type stage.
28-Individual Ranking G	Stage_No	This report shows the ranking from the starting to the current stage using time.
34-FIRST THREE RIDERS	Stage_No	This report shows the first three riders for a particular stage depending on finishing time.





admin

## Withdrawal Riders Per Stage

Withdrawal

Stage

STAGE 2

Submit

New


Rider Rider No	Withdraw	Name ↑≡
157	DNS	PHILIPPE GILBERT
68	DNS	RAFAEL VALLS FERRI

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↑

Figure 7.1: Stage Wise Withdrawal Rider Information


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## Points Ranking S

New

New  
STAGE 6

Submit

New

Name	Rider No	Flat Point
WILLIAM BONNET	53	15
GEORGE BENNETT	12	13
KASPER ASGREEN	42	12
VALENTIN MADOUAS	56	11
EMANUEL BUCHMANN	22	10
LENNARD KÄMNA	24	9
SÉBASTIEN REICHENBACH	58	8
GREGOR MÜHLBERGER	25	7
PRIMOŽ ROGLIC	11	6
FELIX GROSSCHARTNER	23	5
RÉMI CAVAGNA	44	4
JONATHAN CASTROVIEJO	4	3
LUKE ROWE	6	3
RUDY MOLARD	57	3

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Figure 7.2: Points Ranking for Stage Ranking


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## Youth Ranking

New

Stage  
STAGE 10

Submit

New

Name	Rider No	Time In Seconds
ANDREX AMADOR ALVIZ	22	143880
AMUND GRØNDAHL JANSEN	13	14801
LUKE ROWE	6	14591
ROBERT GESINK	15	14399
SÉBASTIEN REICHENBACH	58	14397
GREGOR MÜHLBERGER	25	14355
RUDY MOLARD	57	14338
RICHARD CARAPAZ	3	14321
FELIX GROSSCHARTNER	23	14312
DRIES DEVENYNS	46	14312
TIM DECLERCQ	45	14299
PRIMOŽ ROGLIC	11	14255
SEPP KUSS	16	14232
PETER SAGAN	21	14223

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Figure 7.3: Youth Ranking for Stage Ranking


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## Climber Ranking S

New

New

STAGE 5

Submit

New

Name	Rider No	Hill Point
ORFÈRE FERNÁNDEZ	46	20
ANDREY AMADOR	2	15
EMANUEL BUCHMANN	22	13
EGAN BERNAL	1	11
KASPER ASGREEN	42	10
RUDY MOLARD	57	10
ROBERT GESINK	15	9
JONATHAN CASTROVIEJO	4	8
FELIX GROSSSCHARTNER	23	7
RÉMI CAVAGNA	44	6
VALENTIN MADOUAS	56	5
VALENTIN MADOUAS	56	5
GEORGE BENNETT	12	3
TIM DECLERCQ	45	2
MATTHIEU LADAGNOUS	55	1

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Figure 7.4: Climber Ranking for Stage Ranking


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## Individual Ranking

New

New  
STAGE 4

Submit

New

Name	Rider No	Time In Seconds
SERRAVALLO	26	14867
RÉMI CAVAGNA	44	14873
RUDY MOLARD	57	14874
FELIX GROSSCHARTNER	23	14875
PRIMOŽ ROGLIC	11	14876
MICHAŁ KWIATKOWSKI	5	14877
WILLIAM BONNET	52	14878
MATTHIEU LADAGNOUS	55	14879
ANDREY AMADOR	2	14880
JULIAN ALAPHILIPPE	41	14881
KASPER ASGREEN	42	14882
KASPER ASGREEN	42	14882
GEORGE BENNETT	12	14883
TIM DECLERCQ	45	14884
PETER SAGAN	21	14885

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Figure 7.5: Individual Ranking for Stage Ranking


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## Points Ranking

New

New  
STAGE 2

Submit

New

Name	Rider No	Point
DRUES NEWFALYNSENBERG	46	23
PRIMOŽ ROGLIC	11	19
TOM DUMOULIN	14	17
JULIAN ALAPHILIPPE	41	17
TIM DECLERCQ	45	17
ROBERT GESINK	15	16
VALENTIN MADOUAS	56	15
PETER SAGAN	21	14
MATTHIEU LADAGNOUS	55	13
GREGOR MÜHLBERGER	25	11
LENNARD KÄMNA	24	10
LENNARD KÄMNA	24	10
KASPER ASGREEN	42	9
JONATHAN CASTROVIEJO	4	8
RÉMI CAVAGNA	44	6

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Figure 7.6: Point Ranking for General Ranking


admin

## Youth Ranking G

New

New  
STAGE 6

Submit

New

Name	Rider No	Times
PIGHIERI, CARLO	7	97993
PETER SAGAN	21	97996
GREGOR MÜHLBERGER	25	97996
MICHAL KWIATKOWSKI	5	98002
RÉMI CAVAGNA	44	98017
SEPP KUSS	16	98020
AMUND GRØNDAHL JANSEN	13	98024
JULIAN ALAPHILIPPE	41	98025
DRIES DEVENYNS	46	98025
DANIEL OSS	26	98026
LUKE ROWE	6	98033
LUKE ROWE	6	98033
MATTHIEU LADAGNOUS	55	98033
ANDREY AMADOR	2	98037
EMANUEL BUCHMANN	22	98045

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Figure 7.7: Youth Ranking for General Ranking


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## Climber Ranking G

New

New  
STAGE 2

Submit

New

Name	Rider No	Points
EMMANUEL REICHMANN	32	37
DANIEL OSS	26	26
FELIX GROSSCHARTNER	23	19
SAM BENNETT	43	17
RÉMI CAVAGNA	44	15
TOM DUMOULIN	14	13
SÉBASTIEN REICHENBACH	58	11
ANDREY AMADOR	2	10
RICHARD CARAPAZ	3	10
LUKE ROWE	6	10
LENNARD KÄMNA	24	9
LENNARD KÄMNA	24	9
RUDY MOLARD	57	9
EGAN BERNAL	1	8
KASPER ASGREEN	42	8

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Figure 7.8: Climber Ranking for General Ranking




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## Individual Ranking G

New

New  
STAGE 1

Submit

New

Name	Rider No	Times
ALMUNDA GRENDAHL JENSEN	43	13580
RICHARD CARAPAZ	3	13585
PRIMOŽ ROGLIC	11	13586
EGAN BERNAL	1	13587
SEPP KUSS	16	13590
TOM DUMOULIN	14	13592
MICHAL KWIATKOWSKI	5	13593
GREGOR MÜHLBERGER	25	13594
DANIEL OSS	26	13596
JULIAN ALAPHILIPPE	41	13597
SAM BENNETT	43	13598
SAM BENNETT	43	13598
PETER SAGAN	21	13601
GEORGE BENNETT	12	13606
EMANUEL BUCHMANN	22	13607

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Figure 7.9: Individual Ranking for General Ranking

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## FIRST THREE RIDERS

New

New

STAGE 3

Submit

New

Name	Rider No	Min
RUDY MOLARD	57	19125
GEORGE BENNETT	12	19129
SÉBASTIEN REICHENBACH	58	19131

1 - 3

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Figure 7.10: First Three Riders for Each Stage

## 8. Charts

Page Number and Name	Chart description
14-Chart: Number Of Stage per Stage Type	This bar chart shows the number of stages per stage type.

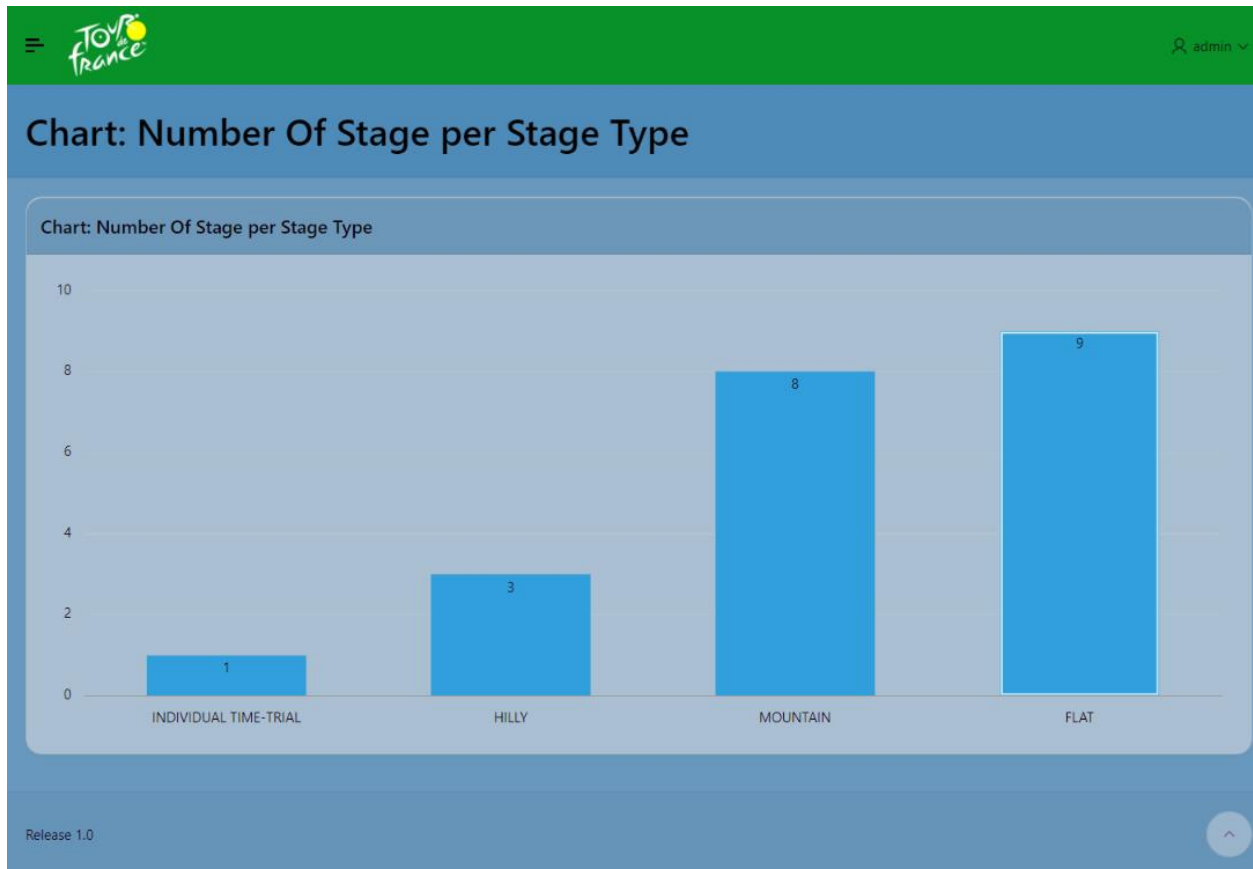


Figure 8.1: Number of Stage per Stage-Type

## 9. Authorization and User Role Assignment

### User Role Assignment

User name	Password	Role
admin	123456	Administrator
user1	user123	Contributor
user2	user2123	Reader
user3	user3123	Reader

### Page-wise Authorization Information

Page number and name	Authorization Level
10-RIDER Form	Contribution Rights
16-TEAMS Form	Contribution Rights
13- Points_and_Time Form	Contribution Rights
27- Withdraw Form	Contribution Rights

## 10. Concluding Remarks

During the time of project development, we have faced various difficulties, especially in image uploading. Working, in the same way, some of the images were not displaying it shows "alter text". Another issue was time type data insertion that we have inserted in seconds using number type data. Besides this, we are enjoying our work. Now we are a little bit able to understand how a webpage works.