

# DATABASE SYSTEMS

## 2023-2024 FALL TERM (CRN: 12166)

### PROJECT PROPOSAL

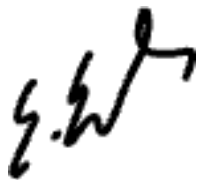
Dataset title	F1 Dataset
Dataset URL	<a href="https://www.kaggle.com/datasets/rohanrao/formula-1-world-championship-1950-2020?select=lap_times.csv">https://www.kaggle.com/datasets/rohanrao/formula-1-world-championship-1950-2020?select=lap_times.csv</a>
Data description	<p>The diagram illustrates the relationships between various F1 data tables. Key tables include drivers, constructors, circuits, races, qualifying, sprintResults, results, driverStandings, constructorStandings, pitStops, and lapTimes. Relationships are shown as lines connecting attributes across tables, such as driverId linking drivers to races, qualifying, sprintResults, results, and driverStandings.</p>
	<p>The diagram shows a schema for a user and quiz system. The User table contains fields like Username, Profile_photo, Blink_score, Email, Password, Salt, and Quiz_score. The Quiz table contains QuestionId, Question_content, Option_1, Option_2, and Correct_answer. The Answers table links Users to Quizzes with fields like Time and Is_true.</p>
	<p>This dataset includes information about Formula 1 constructor, driver, race and circuits from 1950 to 2023.</p> <p>We use this data to develop a website serves information about current and previous seasons, challenging blink tests and quizzes. This project's structure is compatible with CRUD operations.</p>

Drivers: 1 primary key, 8 non-key column  
Constructors: 1 primary key, 4  
Circuits: 1 primary key, 8 non-key  
Races: 2 primary key, 1 foreign key, 15 non-key  
Qualifying: 1 primary key, 3 foreign key, 5 non-key  
sprintResults: 1 primary key, 3 foreign key, 12 non-key  
status: 1 primary key, 1 non-key  
results: 1 primary key, 4 foreign key, 13 non-key  
pitStops: 3 primary key, 2 foreign key, 4 non-key  
lapTimes: 3 primary key, 2 foreign key, 3 non-key  
driverStandings: 1 primary key, 2 foreign key, 4 non-key  
constructorStandings: 1 primary key, 2 foreign key, 4 non-key  
constructorResults: 1 primary key, 2 foreign key, 2 non-key

----- ADDED BY US -----

User: 1 primary, key, 0 foreign key, 7 non-key  
Quiz: 1 primary key, 0 foreign key, 4 non-key  
Answers: 3 primary key, 2 foreign key, 1 non-key

Member 1  
Signature





Full name	Emircan Erol
Student no	150200324
CRN	12166
Responsibility:	Front-end & Back-end Tables: SprintResults, circuits, constructors, User

Member 2  
Signature



Full name	Mustafa Can Çalışkan
Student no	150200097
CRN	12166
Responsibility:	Front-end & Back-end Tables: Qualifying, Drivers, driverStandings, Quiz

<b>Member 3</b> <b>Signature</b> 	<b>Full name</b>	Yusuf Şahin
	<b>Student no</b>	150200016
	<b>CRN</b>	12166
	<b>Responsibility:</b>	Front-end & Back-end Tables: Results, status, pitstop, constructorStandings
<b>Member 4</b> <b>Signature</b> 	<b>Full name</b>	Yusuf Emir Sezgin
	<b>Student no</b>	150200066
	<b>CRN</b>	12166
	<b>Responsibility:</b>	Front-end & Back-end Tables: Races, Lap times, constructorResults, Answers