

Q1

cyclist_name

id	K
lastname	
firstname	

Q4

cyclist_id

lastname	K
firstname	K
id	C↓

Q9

cyclist_races

id	K
lastname	
firstname	
[race {	
race_title	
race_date	
race_time	
}]	

ACCESS PATTERNS

- Q1: Find a cyclist's name with a specified id
 Q2: Find cyclists given a specified category
 Q3: Find cyclist's rank given a year and race name
 Q4: Find a cyclist's id given last and first name
 Q5: Find a country flag for a specified cyclist
 Q6: Find all teams for a specified cyclist
 Q7: Find all calendar events for a specified year and month
 Q8: Find race winners given a race name
 Q9: Find all races for a specified cyclist
 Q10: Find all teams associated with year of membership for a specified cyclist
 Q11: Find statistics for a specified cyclist id
 Q12: Find total PCS points for a specified cyclist id
 Q13: Find $\log(\text{PCS points})$ for a specified cyclist using a UDF
 Q14: Find average race time for a specified race and team
 Q15: Find rankings for all race for a specified year
 Q16: Find all cyclists for a specified team
 Q17: Find all cyclist/team combinations for a particular year
 Q18: Find all calendar events given a specified year ordered by month
 Q19: Find all calendar events given a specified year and month range
 Q20: Find all cyclists and their points for a specified category
 Q21: Find a race for a specified start/end date range
 Q22: Find TTL for a calendar event
 Q23: Find sum of point given a specified cyclist id
 Q24: Find number of cyclists given a specified country
 Q25: Find all cyclists that finished a race given a specified race time range
 Q26: Find statistics for a specified cyclist id
 Q27: Find race data for last three days' races
 Q28: Find race data for last three days' races using token()
 Q29: Find waypoints for a race route
 Q30: Find all distinct race id values for routes
 Q31: Find nation rank by points for a specified nation
 Q32: Find popular cyclists by popularity score