

DBMS LAB-7

Name: Riddhi R. Thakker

ID: 201601124

1. Minimal FD Set:

1. IPL Database:

Team_name \rightarrow coach
Team_name \rightarrow TID
Team_name \rightarrow captain_ID
TID \rightarrow coach
TID \rightarrow Team_name
TID \rightarrow captain_ID
{Host_team, Guest_team, Date} \rightarrow Result
PID \rightarrow Name
PID \rightarrow skill_level
PID \rightarrow Specialty
PID \rightarrow Team_name
{PID, Date, Injury_name} \rightarrow Description

2. Inter-University Gliding Competition Database:

University \rightarrow fees_paid_or_not
University \rightarrow no_of_pilots
PID \rightarrow name
PID \rightarrow experience_level
PID \rightarrow university
callsign \rightarrow capacity
callsign \rightarrow type
trigraph \rightarrow latitude
trigraph \rightarrow longitude
{pilot_ID, callsign, TID} \rightarrow score
TID \rightarrow start_time
TID \rightarrow start_height
TID \rightarrow trigraph

3. Project Evaluation Database:

SID \rightarrow name
SID \rightarrow grp_ID
grp_ID \rightarrow title
grp_ID \rightarrow TA_ID
TA_ID \rightarrow tname
{stage_name, Params} \rightarrow max_marks
{stage_name, Params, SID} \rightarrow student_marks
{stage_name, Params, grp_ID} \rightarrow grp_marks

2. Projected FD Set:

1. IPL Database:

Team_name \rightarrow coach
Team_name \rightarrow TID
Team_name \rightarrow captain_ID
TID \rightarrow coach
TID \rightarrow Team_name
TID \rightarrow captain_ID
{Host_team, Guest_team, Date} \rightarrow Result
PID \rightarrow Name
PID \rightarrow skill_level
PID \rightarrow Specialty
PID \rightarrow Team_name
PID \rightarrow coach
PID \rightarrow captain_ID
PID \rightarrow TID
{PID, Date, Injury_name} \rightarrow Description

2. Inter-University Gliding Competition Database:

University \rightarrow fees_paid_or_not
University \rightarrow no_of_pilots
PID \rightarrow name
PID \rightarrow experience_level
PID \rightarrow university
PID \rightarrow fees_paid_or_not
PID \rightarrow no_of_pilots
callsign \rightarrow capacity
callsign \rightarrow type
trigraph \rightarrow latitude
trigraph \rightarrow longitude
{pilot_ID, callsign, TID} \rightarrow score
TID \rightarrow start_time
TID \rightarrow start_height
TID \rightarrow trigraph

3. Project Evaluation Database:

SID \rightarrow name
SID \rightarrow grp_ID
SID \rightarrow title
SID \rightarrow TA_ID
SID \rightarrow tname
grp_ID \rightarrow title
grp_ID \rightarrow TA_ID
grp_ID \rightarrow tname
TA_ID \rightarrow tname
{stage_name, Params} \rightarrow max_marks

$\{\text{stage_name, Params, SID}\} \rightarrow \text{student_marks}$
 $\{\text{stage_name, Params, grp_ID}\} \rightarrow \text{grp_marks}$

3. Determination of Key:

1. IPL Database:
Team : Team_name or TID
Game: {Host_name, Guest_name, date}
Player: PID
Injury Record: {PID, date, Injury_name}
2. Inter-University Gliding Competition Database:
Team: University
Pilot: PID
Glider: callsign
Task: TID
Flies: PID, callsign, TID
Turning Points: trigraph
3. Project Evaluation Database:
Student: SID
Group: grp_ID
TA: TA_ID
Stage & Params wise Max_marks: {Stage_name,Params}
Eval Student_marks: {stage_name,Params,SID}
Eval Grp_marks: {Stage_name,Params,grp_ID}