

CPSC 304 Project Cover Page

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Group Number: 08

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia.

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Introduction

What is the domain of the application?

This application is aimed to model an NBA related database for entertaining purpose, where fans can view historical data sets of NBA games, players, and teams, such as players' status, match information, stadium info etc.

What aspects of the domain are modeled by the database?

The main aspects of the domain being modeled includes players, teams, and matches, which people (fans) usually pay great attention to. To better facilitate the functionality of our database application, other aspects coming with the main aspects are also considered, such as performance data, stadium, fans, boss, transfer history, awards and honors, sponsor. The aspects mentioned above are listed in the table 1.1, with corresponding attributes and primary keys. All the relationships between entities are also modelled. For example, a player can only play for one team.

Entity	Attributes
Player	<u>pid</u> , name, birth, jersyNum, height, weight, salary
Performance Data (weak entity to player)	<u>d</u> id, mid-range, 3-pointer, paint
Team	<u>t</u> id, name, foundedYear
Stadium	<u>c</u> ity, <u>n</u> ame, address
Staff	<u>s</u> id, <u>n</u> ame
Fans	<u>f</u> id, name, email
Boss	<u>b</u> id, name, wealth
Awards and Honors (weak entity to player)	<u>n</u> ame, <u>s</u> ea <u>s</u> on
Match	<u>m</u> id, date, time, home, guest, winner, homeScore, guestScore
Sponsor	<u>n</u> ame, funding per year
TransferHistory	thid, date, from, to

Table 1.1

Database Specification

What function will this database provide?

Customer:

1. Get access to NBA related information for entertainment purpose, such as players' status, match information, teams' staff, etc.
2. Apply filter to sort the displayed information (optional)

Developer (admin):

1. Collect and organize input data
2. Update, modify, and delete collection of interrelated data that serves the application

Application Platform

What platform will your project use (PHP/JBDC/etc.)?

PHP, Oracle.

What is your expected application technology stack?

React, PHP, Oracle

Entity-relationship Diagram

(see next page)

