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MiniProject Report on

“OLYMPIC DATABASE DESIGN”

By

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Bachelor of Engineering

In

COMPUTER SCIENCE AND ENGINEERING

Submitted to,

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General Description:

We want to design and implement a database in MySQL for storing the information of all athletes and their participation in the Olympic Games held over the past years. Summer Olympics have been held since 1896 (1928 for women). Of course, you are not expected to populate the database with all the athletes from all these years – just enough to answer the queries that we wish to present.

- An athlete has an Athlete_id, Athlete_name, gender, country, and a birth date.
- Each Olympiad has the year, a season (summer or winter), the country where it took place, and the city. For example, the 2008 summer Olympic Games were held in Beijing, China.
- Every athlete in the database participates in at least one Olympiad. An athlete can participate in several events in one Olympiad and can, in fact, participate in more than one Olympiad. For example, Michael Armstrong participated in the swimming, diving, and water polo events. Ian Thorpe participated in the Sydney 2000 summer Olympics and won 3 gold and 2 silver medals. In Athens 2004, he won two gold, one silver and one bronze medal.
- An event has a sport name, event name and event type.
- Schedule and Result has date, event details which athletes were scheduled to compete in which events and how they placed, and who the winner(s) of the event was (e.g., what kind of medal they were awarded). You may assume that null values are used for winners and placings until the event has been held. For example, the women's 100 m backstroke swimming held in summer 2008 Olympics resulted in a gold medal (finished in 1st place) for Natalie Coughlin from USA in a time of 58.96.
- Events in the Olympics may be either individual or team events. If it is a team event, we wish to know who the members of each team were.

Note: You may need to add additional entities and attributes to meet the requirements for the queries or application programs.

Olympic database catalog

Event(sport_name:string,event_type:string,event_name:string)

Schedule(day:date,event_type:string,event_name:string)

Country(country_code:integer,country_name:string)

Athlete(athlete_id:integer,athlete_name:string,dob:date,gender:string,country_code:integer)

Result(year:integer,event_name:string,event_name:string,athlete_id:integer,medal_type:string)

Queries

In order to assess the potential of your MySQL database system for use, the database should be able to supply answers to the following queries:

1.GIVE THE DETAILS(ID,NAME,COUNTRY) OF ATHLETES WHO WON GOLD MEDAL.

2.LIST THE ATHLETES REPRESENTING INDIA IN OLYMPICS.

EVENT:

SPORT_NAME	EVENT_TYPE	EVENT_NAME
ARCHERY	2008 SUMMER	BEIJING
ATHLETICS	2006 WINTER	TURIN
BASKETBALL	2004 SUMMER	ATHENS
FOOTBALL	2002 WINTER	SALT LAKE CITY
HOCKEY	2000 SUMMER	SYDNEY

SCHEDULE:

DAY	EVENT_TYPE	EVENT_NAME
23-APR-2008	2008 SUMMER	BEIJING
20-NOV-2006	2006 WINTER	TURIN
03-MAY-2004	2004 SUMMER	ATHENS
09-DEC-2002	2002 WINTER	SALT LAKE CITY
25-APR-2000	2000 SUMMER	SYDNEY

COUNTRY:

COUNTRY_CODE	COUNTRY_NAME
1	UNITED STATES
2	GERMANY
3	ITALY
4	FRANCE
5	INDIA

ATHLETE:

ATHLETE_ID	ATHLETE_NAME	DOB	GENDER	COUNTRY_CODE
101	MICHAEL PHILPS	01-OCT-1973	MALE	3
102	LARISE LATY	31-OCT-1976	FEMALE	5
103	MARK SPITZ	08-MAR-1978	FEMALE	1
104	JENNY THOMPS	09-FEB-1982	FEMALE	3
105	PAL KATPATI	20-APR-1980	MALE	2
106	CARL THOMPSON	23-OCT-1971	MALE	1
107	AGNES KELETI	26-MAY-1973	FEMALE	4
108	ABHINAV	26-JUL-1975	MALE	5

RESULT:

YEAR	EVENT_TYPE	EVENT_NAME	ATHLETE_ID	MEDAL_TYPE
2008	2008 SUMMER	BEIJING	103	SILVER
2006	2006 WINTER	TURIN	107	SILVER
2004	2004 SUMMER	ATHENS	108	GOLD
2002	2002 WINTER	SALT LAKE CITY	101	BRONZE
2000	2000 SUMMER	SYDNEY	105	GOLD

SQL QUERIES:

1.GIVE THE DETAILS(ID,NAME,COUNTRY) OF ATHLETES WHO WON GOLD MEDAL:

```
SQL>SELECT      A.ATHLETE_ID,A.ATHLETE_NAME,C.COUNTRY_NAME      FROM
ATHLETE A,COUNTRY C,RESULT R WHERE A.ATHLETE_ID=R.ATHLETE_ID AND
A.COUNTRY_CODE=C.COUNTRY_CODE AND R.MEDAL_TYPE='GOLD';
```

OUTPUT:

ATHLETE_ID	ATHLETE_NAME	COUNTRY_NAME
108	ABHINAV	INDIA
105	PAL KATPATI	GERMANY

2.LIST THE ATHLETES REPRESENTING INDIA IN OLYMPICS:

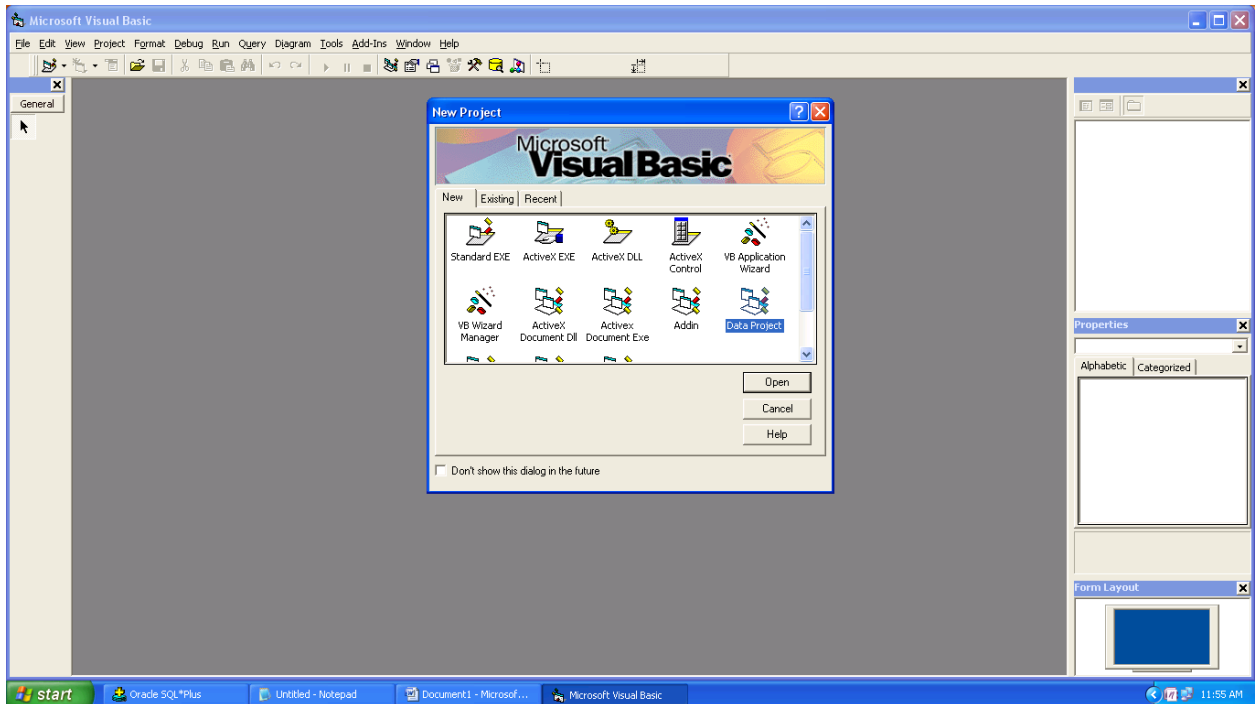
```
SQL>SELECT  A.ATHLETE_NAME  FROM  ATHLETE  A,COUNTRY  C  WHERE
C.COUNTRY_CODE=A.COUNTRY_CODE AND C.COUNTRY_NAME='INDIA';
```

OUTPUT:

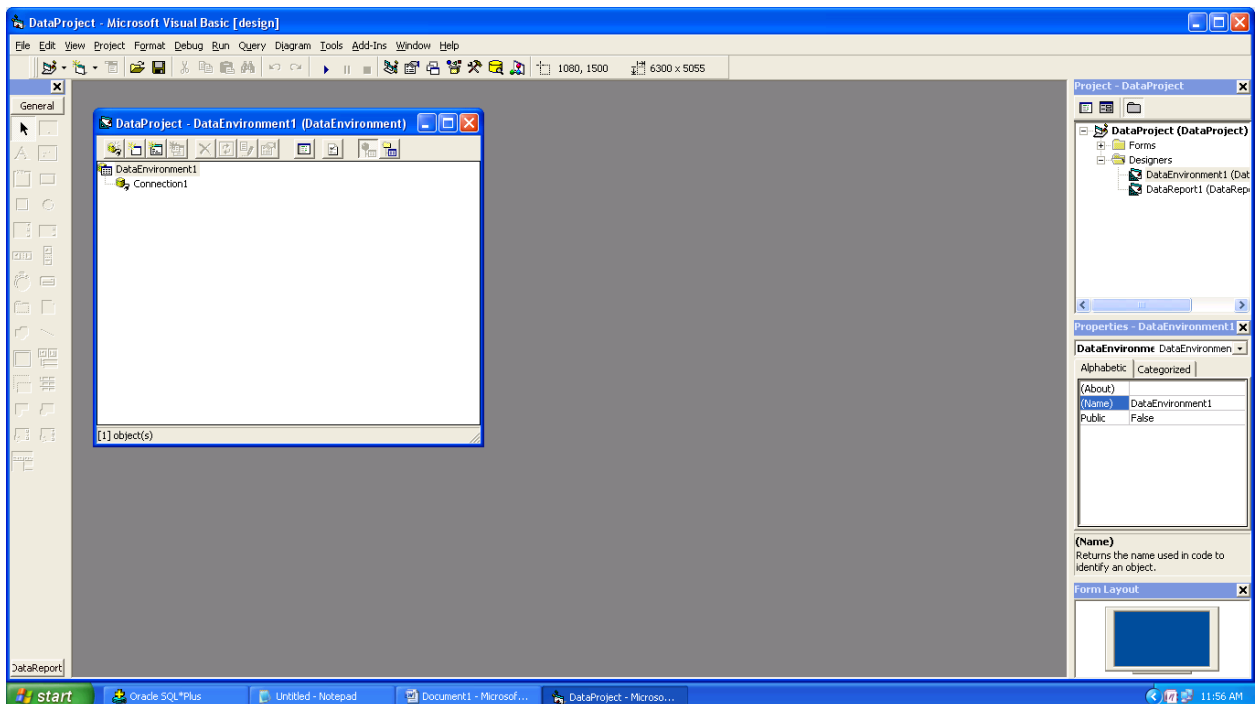
ATHLETE_NAME
LARISE LATY
ABHINAV

Report :

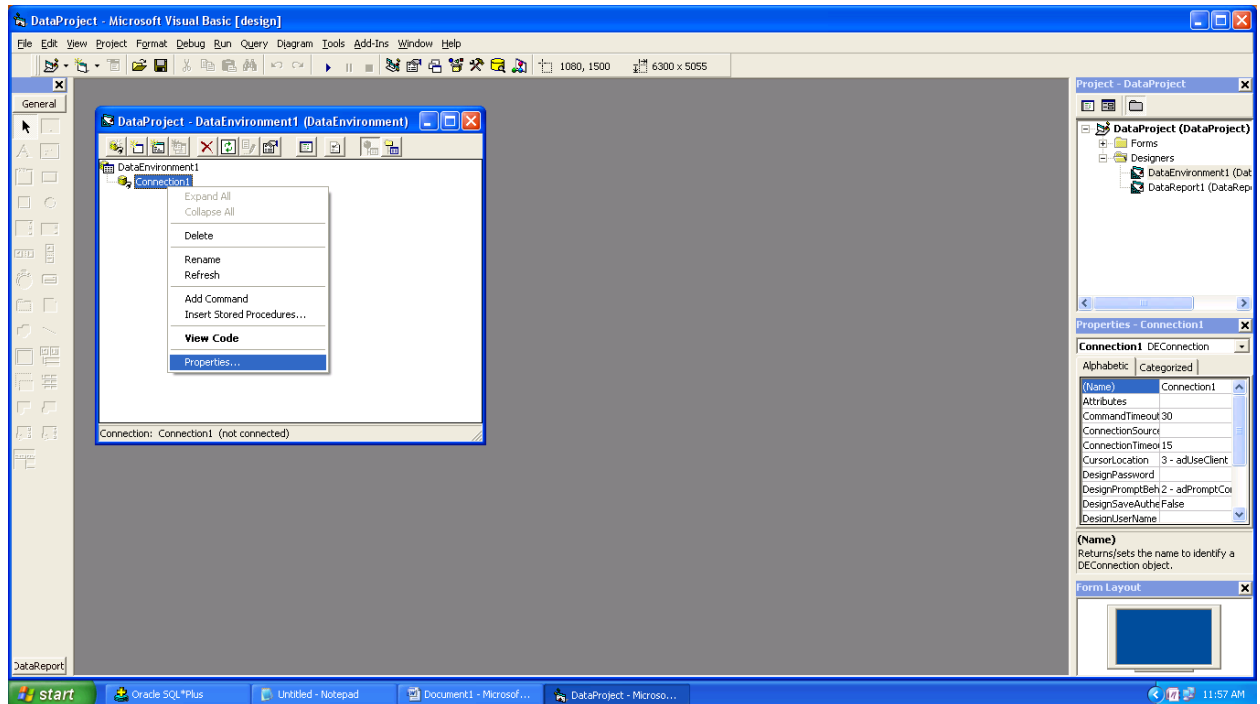
Step1:



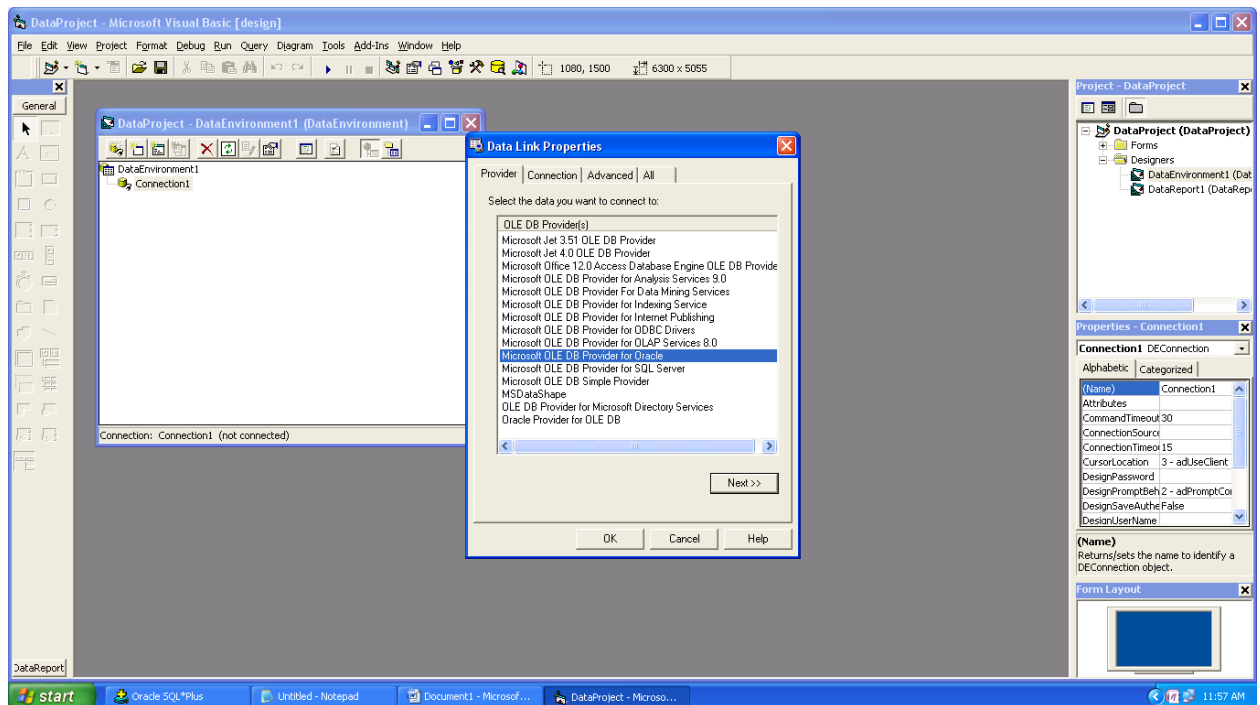
Step2:



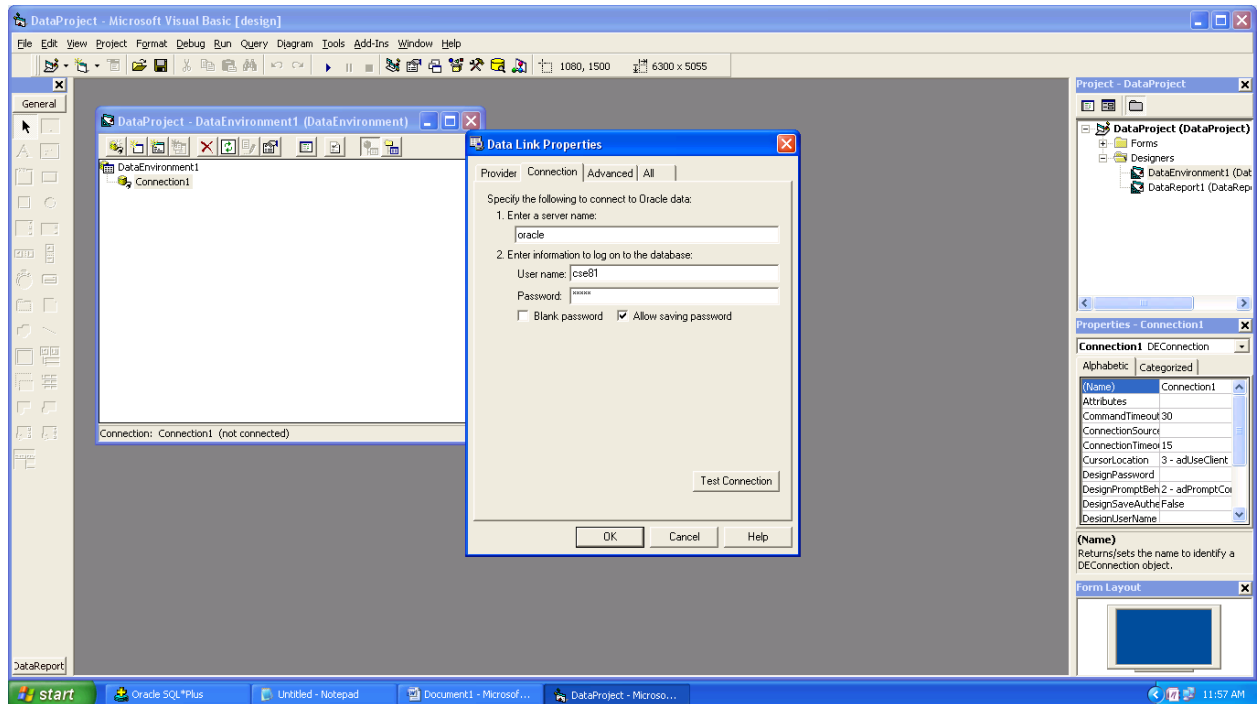
Step3:



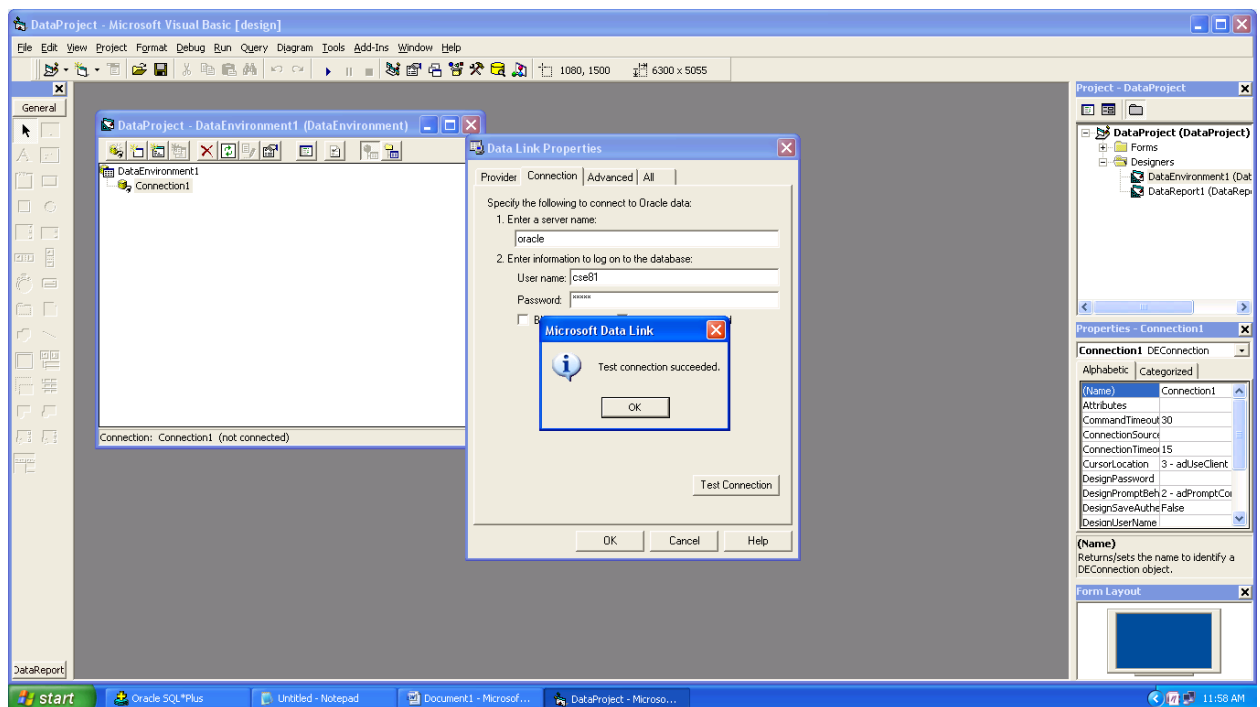
Step4:



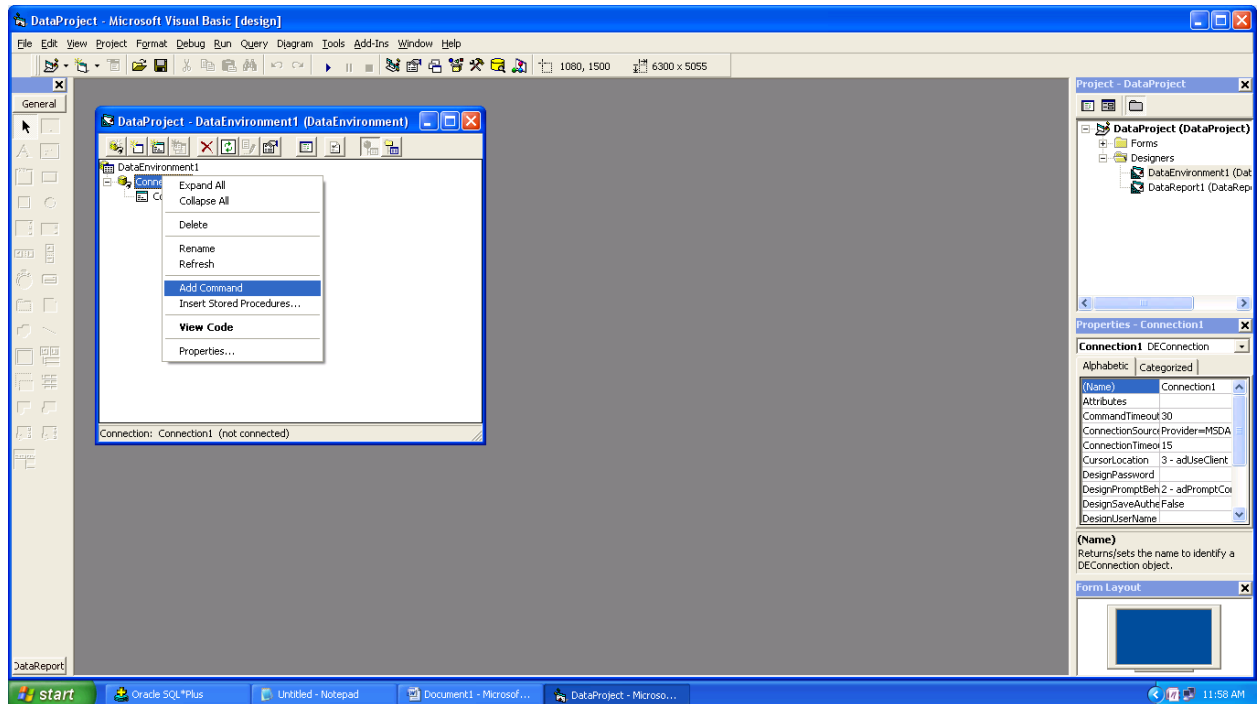
Step5:



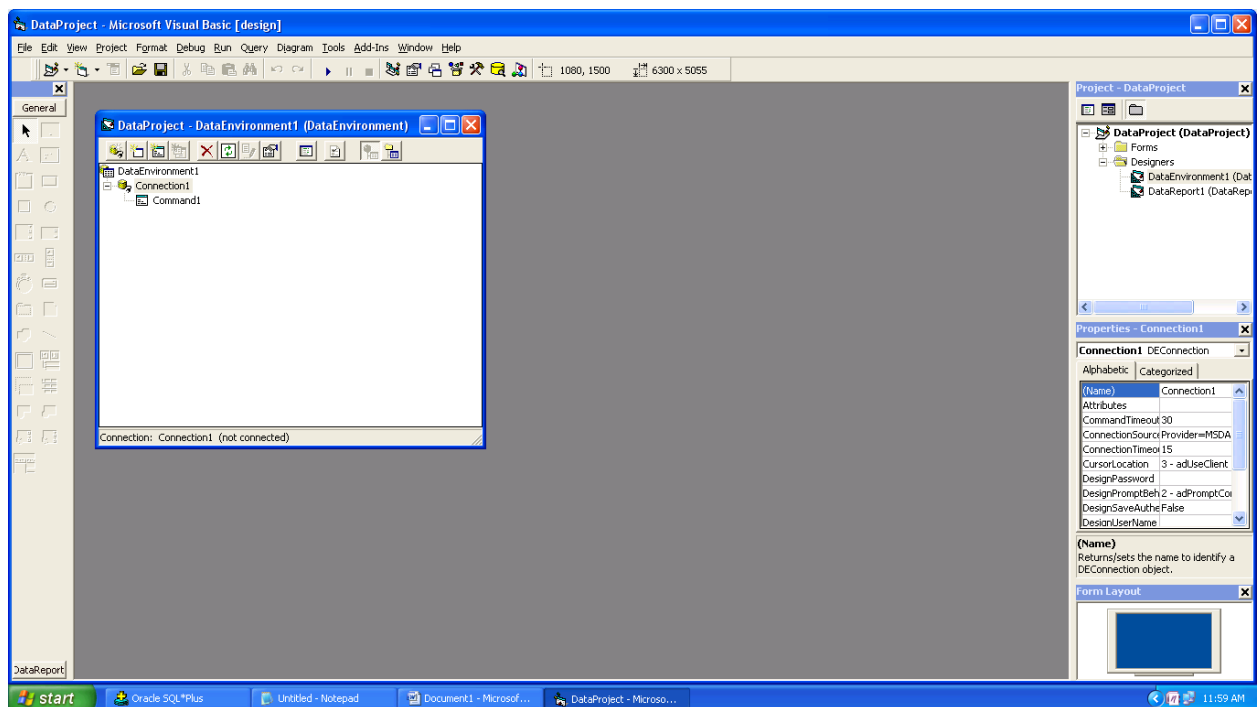
Step6:



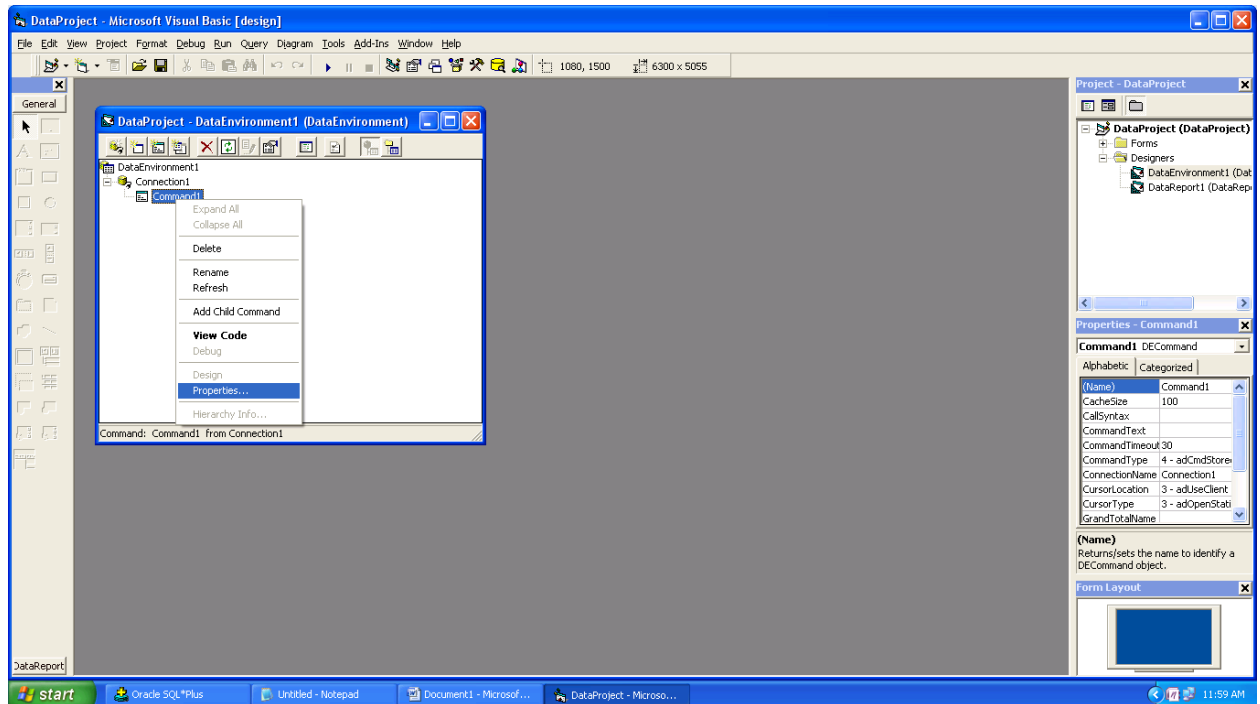
Step7:



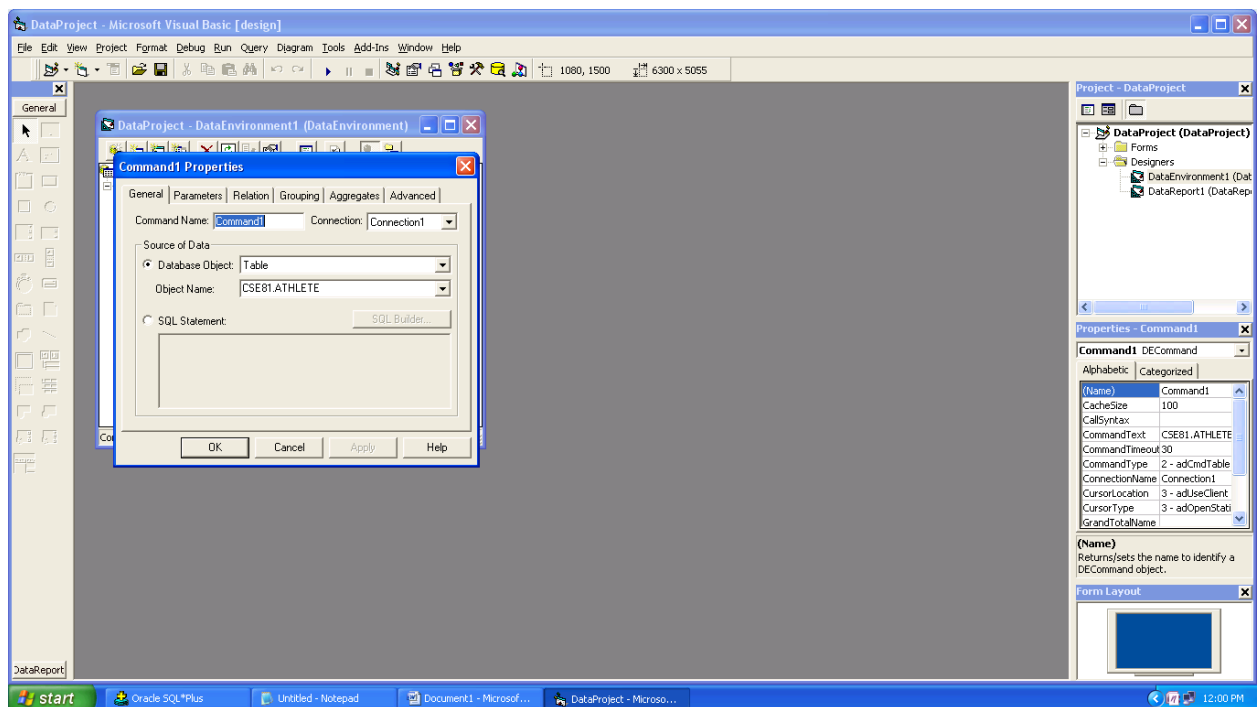
Step8:



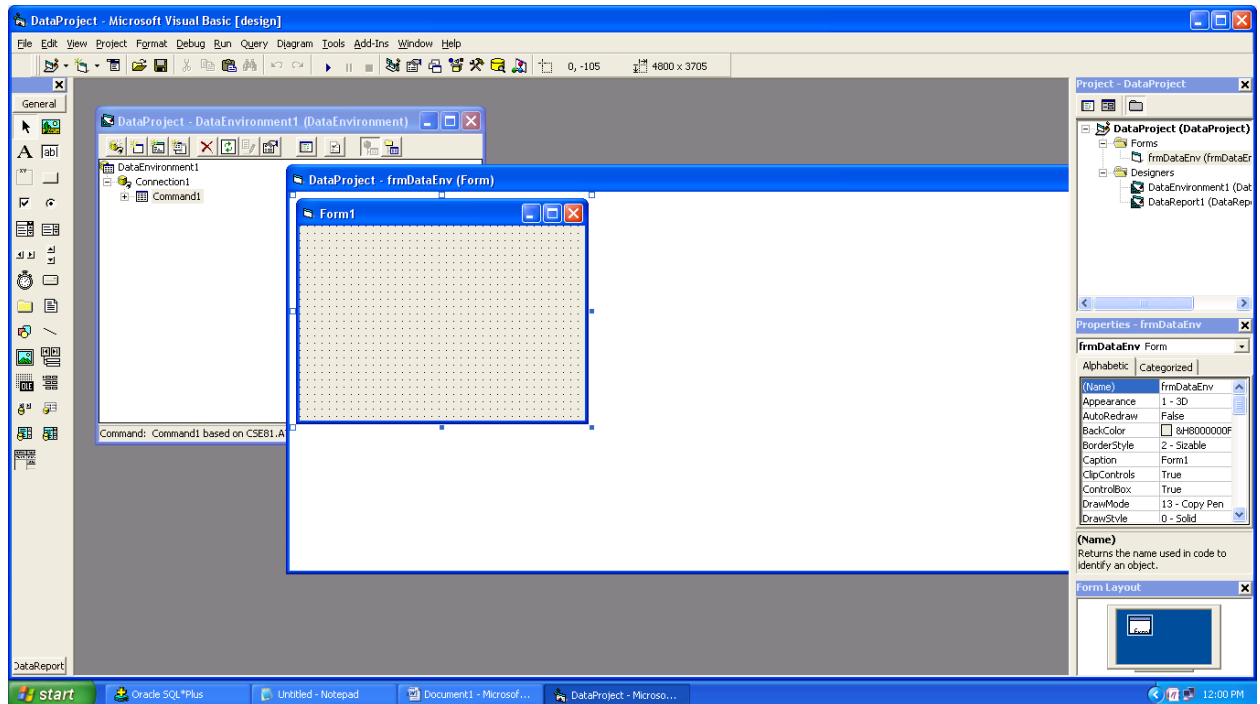
Step9:



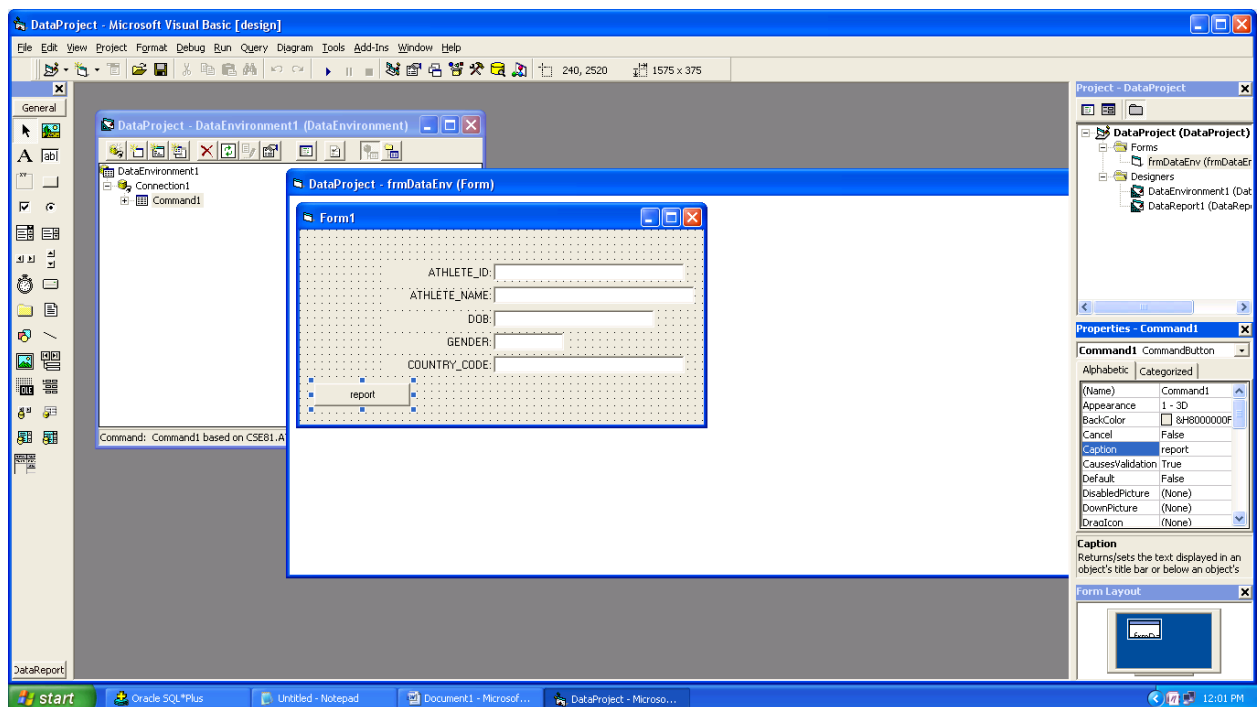
Step10:



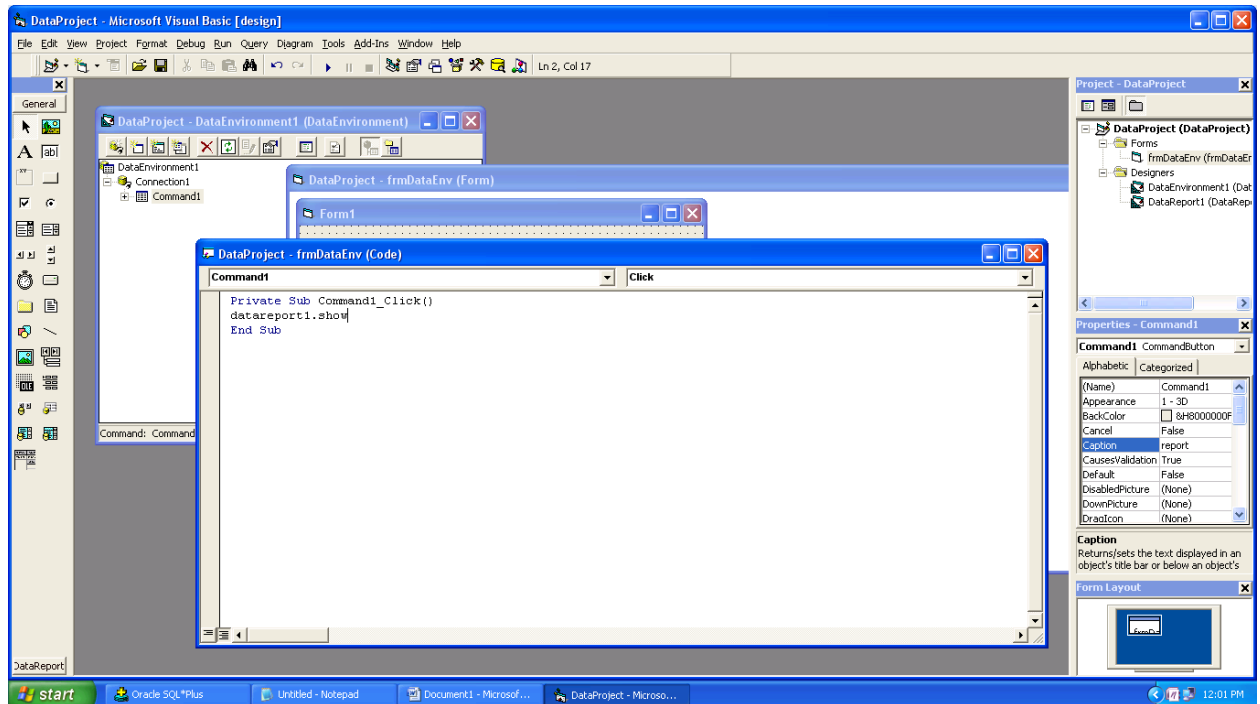
Step11:



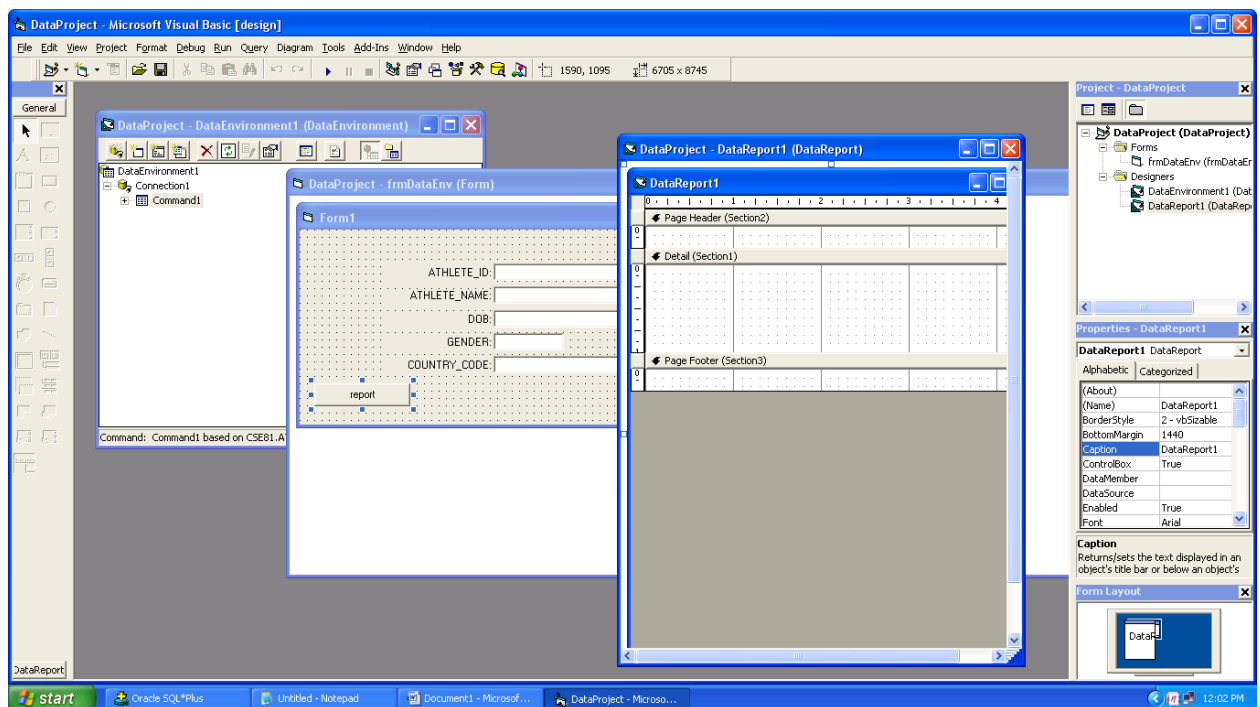
Step12:



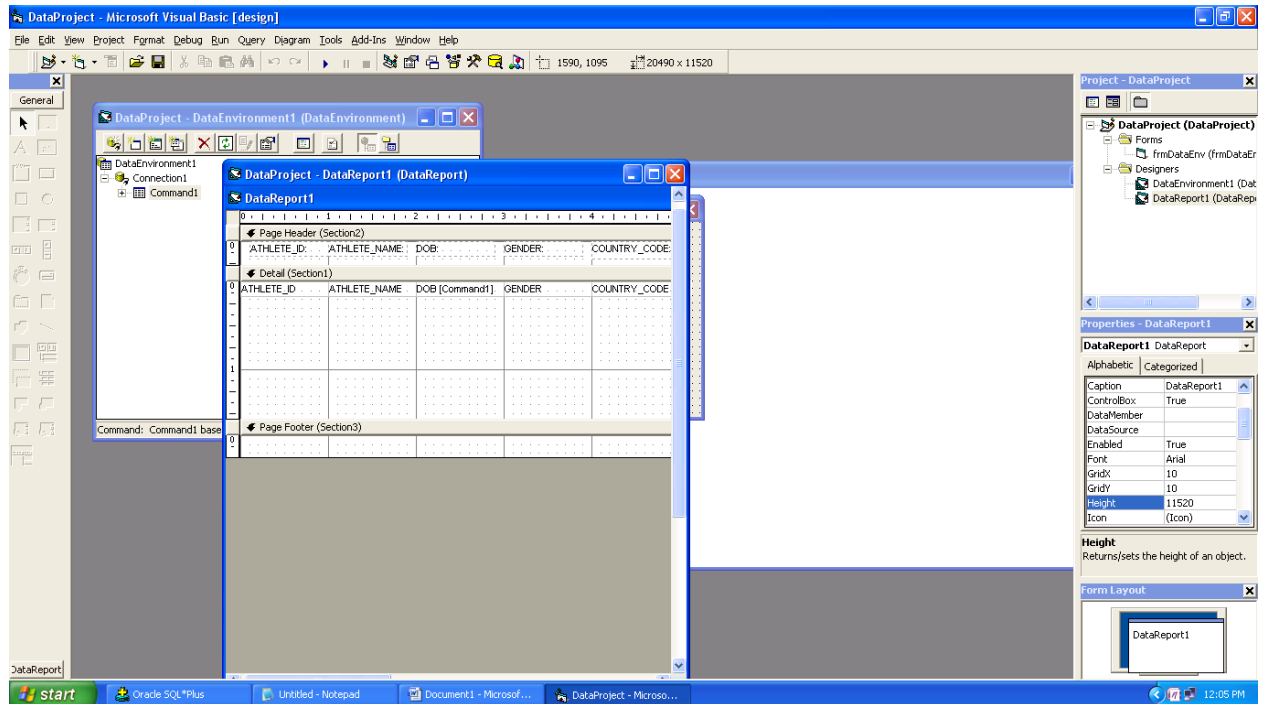
Step13:



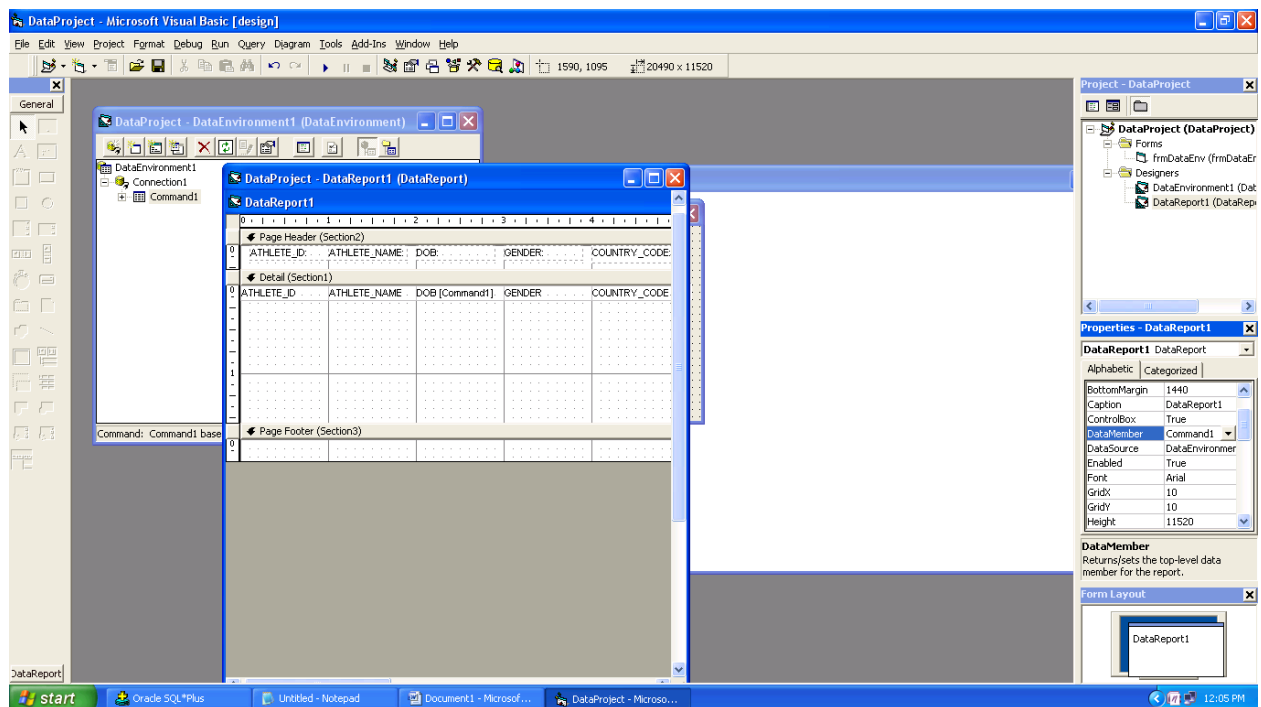
Step14:



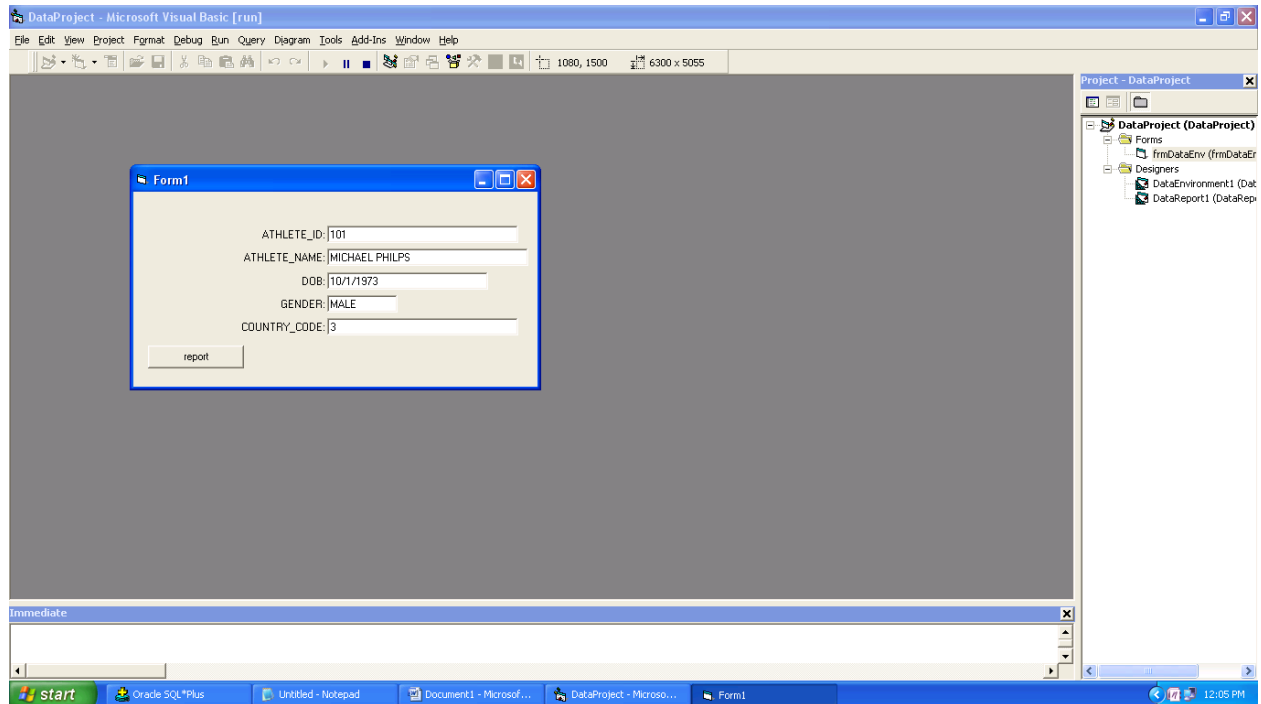
Step15:



Step16:



Step17:



Step18:

