The Red Hill Rovers bicycle club is for **cyclists** who race competitively.

Each cyclist has a unique id, a name and may give an address.

The club owns bicycles (bikes) of all different models.

Each **bike** is uniquely identified by its serial number.

The **club** also keeps details on the model of the bike and sometimes the description of that model. There are a many bikes of each model.

Each bike’s weight and sometimes the wheel type and wheel diameter is also recorded.

When a **race** is advertised within the cycling fraternity, the club records it and records any of its cyclists that are going to take part in the race, along with the serial number of the bike they will ride.

When the race is finished, the club updates the entry with the cyclists’ finishing times

|  |
| --- |
| **Bike** |
| serial\_number |
| bike\_weight |
| wheel\_type |
| wheel\_diameter |
| model\_name\* |

|  |
| --- |
| **Cyclist** |
| cyclist\_id |
| name |
| address |

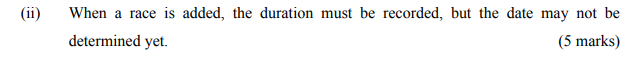
|  |
| --- |
| **Model** |
| model\_name |
| model\_description |

|  |
| --- |
| **Race** |
| serial\_number \* |
| cyclist\_id\* |
| race\_name |
| duration |
| date |
| finishing\_time |



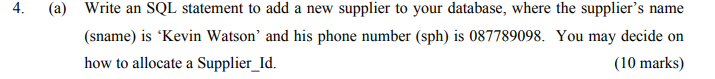
When creating the Bike table I would put the following:

CONSTRAINT weight\_chk CHECK(bike\_weight > 6.8)

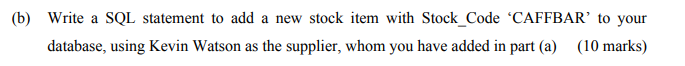


In the Race table I would add the following:

duration NUMBER(4) NOT NULL



INSERT INTO SUPPLIER(SUPPLIER\_ID, SNAME,SPH) VALUES(1, ‘Kevin Watson’, ‘087789098’);



INSERT INTO STOCK(STOCK\_CODE, SUPPLIER\_ID, STOCK\_NAME, QUANTITYSTOCK, PRICE) VALUES (‘CAFFBAR’, 1, ‘bar’, 100, 1.00);

**SET SERVER ON**

**DECLARE**

**BEGIN**

**EXCEPTION**

**WHEN OTHER THEN**

**DBMS\_OUTPUT.PUT\_LINE(SQLCODE||’ ’||SQLERRM||’ ’||V\_CURRENTTOP);**

**DBMS\_OUTPUT.PUT\_LINE(‘Rolling back’);**

**ROLLBACK;**

**END**