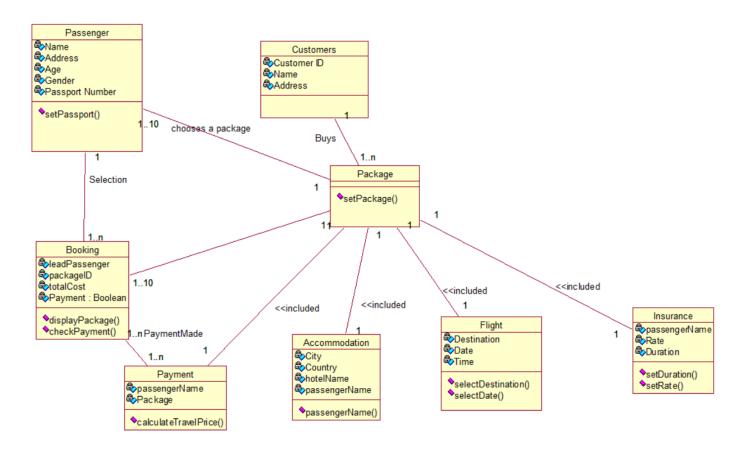
Question 1. Class Diagram.

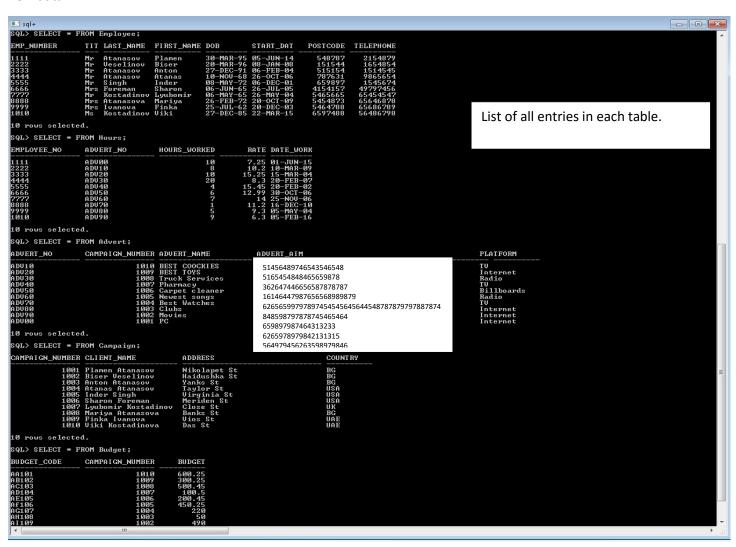


```
💷 sql+
                                                                                                                                              - - X
SQL*Plus: Release 11.2.0.3.0 Production on Sun Apr 17 20:11:30 2016
Copyright (c) 1982, 2011, Oracle. All rights reserved.
 Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 – 64bit Production
With the Partitioning, Automatic Storage Management, OLAP, Data Mining
and Real Application Testing options
SQL> CREATE TABLE Budget(
2 Budget_Code VARCHAR2 (15) PRIMARY KEY,
3 Campaign_Number NUMBER (10) NOT NULL,
4 Budget NUMBER (4,2) NOT NULL);
Table created.
SQL> CREATE TABLE Campaign(
2    Campaign_Number NUMBER (10) PRIMARY KEY,
3    Client_Name VARCHAR2 (20) NOT NULL,
4    Address VARCHAR2 (30) NOT NULL,
5    Country VARCHAR2 (10) NOT NULL);
                                                                                               Campaign No VARCHAR2 (20) NOT NULL,
Table created.
Table altered.
SQL> CREATE TABLE Advert(
2 Advert_No VARCHAR2 (15) PRIMARY KEY,
3 Campaign_Number NUMBER (10),
4 Advert_Name VARCHAR2 (20) NOT NULL,
5 Advert_Aim VARCHAR2 (50) NOT NULL,
6 Platform VARCHAR2 (10) NOT NULL);
Table created.
SQL> ALTER TABLE Advert
2 ADD CONSTRAINT Campaign_No_FK FOREIGN KEY (Campaign_Number) REFERENCES Cam
paign (Campaign_Number);
Table altered.
SQL> CREATE TABLE Hours(
2 Employee_No VARCHAR2 (15),
3 Advert_No VARCHAR2 (15),
4 Hours_Worked NUMBER (2,2) NOT NULL,
5 Rate NUMBER (3,2) NOT NULL,
6 Date_Worked DATE NOT NULL);
Table created.
SQL> ALTER TABLE Hours
2 ADD CONSTRAINT Advert_No_FK FOREIGN KEY (Advert_No) REFERENCES Advert (Adve
 rt_No);
Table altered.
SQL> CREATE TABLE Employee(
2 Emp_Number VARCHAR2 (15) PRIMARY KEY,
3 Title VARCHAR2 (3) NOT NULL,
4 Last_Name VARCHAR2 (10) NOT NULL,
5 First_Name VARCHAR2 (10) NOT NULL,
6 DOB DATE NOT NULL,
7 Start_Date DATE NOT NULL,
8 Postcode NUMBER (7) NOT NULL,
9 Telephone NUMBER (10) NOT NULL);
Table created.
SQL> ALTER TABLE Hours
2 ADD CONSTRAINT Employee_No_FK FOREIGN KEY (Employee_No> REFERENCES Employee
(Emp_Number);
Table altered.
sqL> _
```

I had to modify the Numbers, because the way I see in lectures does not work.

```
💷 sql+
                                                                                                                         - - X
ORA-02291: integrity constraint (ATANASO4.CAMPAIGN_NUMBER_FK) violated - parent
key not found
SQL> ALTER TABLE
2 Budget
3 MODIFY(
4 Budget NUMBER <6.2>
5 >;
Table altered.
SQL> ALTER TABLE
2 Hours
3 MODIFY(
4 Hours_Worked NUMBER (4,2)
5 Rate NUMBER (5,2)
6 );
Rate NUMBER (5,2)
*
ERROR at line 5:
ORA-00907: missing right parenthesis
SQL> ALTER TABLE
2 Hours
3 MODIFY(
4 Hours_Worked NUMBER (4,2)
5 );
Table altered.
SQL> ALTER TABLE
2 Hours
3 MODIFY(
4 Rate NUMBER (5,2)
5 >;
Table altered.
sqL> _
```

Question 3. List of all entries in each table. I've typed wrong data for ADVERT_AIM, that's why I draw a text box with new data.



Question 3. 1st List of all Employees who were hire before 01/01/2006, 2nd List of all Employee Names whose rate exceeds 12.98 GBP, 3rd List of Campaign Details whose Budget exceeds 499 GBP.

