

ICS 424 - Homework # 3- (10%)

Use an existing Oracle database (or download an Oracle software and install it) to answer all of the following Oracle SQL questions

1. develop a database application called BANK which allows :
 - A bank customer to deposit and withdraw money from his account using a screen which looks like an ATM machine.
 - A customer to generate a report of all his transactions.
 - The generations of at least two or three other reports which you think are needed.
2. Create three table spaces called BANK_ TS1, BANK_ TS2, and BANK_ TEMP.
3. Create all the indexes that you think are needed.
4. Make sure that all your tables are created in BANK_ TS1, all indexes are created in BANK_ TS2, and BANK_ TEMP is used for sorting.
5. Create roles and grant them appropriate privileges.
6. Create many bank customers.
7. Assume in 5 years time you will have 1,000,000 customers and accordingly justify the size of BANK_ TS1 and BANK_ TS2.
8. Create one or two bank tellers and a bank manager account
9. Grant each user appropriate role
10. Show
 - All the privileges granted to a role
 - The size of the log buffers
 - The size of the data buffers
 - The location of all the log files
 - The location of all the data files
 - The amount of space used in BANK_ TS1
 - All the tables created in a table space.
 - All the indexes of a table.
 - All the constraints in a table.