- 🗇 X [cloudera@quickstart ~]\$ hive Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.p WARNING: Hive CLI is deprecated and migration to Beeline is recommended. hive> exit WARN: The method class org.apache.commons.logging.impl.SLF4JLogFactory#release() WARN: Please see http://www.slf4j.org/codes.html#release for an explanation. [cloudera@quickstart ~]\$ hadoop fs -ls [cloudera@quickstart ~]\$ ls cloudera-manager Downloads cm\_api.py enterprise-deployment.json Music express-deployment.json [cloudera@quickstart ~]\$ pwd /home/cloudera [cloudera@quickstart ~]\$ ls cloudera-manager Downloads kerberos Pictures workspace cm\_api.py enterprise-deployment.json lib express-deployment.json [cloudera@quickstart ~]\$ cd hiveclass [cloudera@quickstart hiveclass]\$ ls [cloudera@quickstart hiveclass]\$ hive



































#### Store raw data into hdfs location

#### <u>r</u> ciougera@quickstart:~/niveciass

```
[cloudera@quickstart hiveclass]$ hadoop fs -ls
Found 1 items
drwxr-xr-x - cloudera cloudera
                                           0 2022-09-11 07:49 hiveclass
[cloudera@guickstart hiveclass]$ ls
sales order data.csv
[cloudera@quickstart hiveclass]$ pwd
/home/cloudera/hiveclass
[cloudera@quickstart hiveclass]$ hadoop fs -mkdir hiveclasscsv
[cloudera@quickstart hiveclass]$ hadoop fs -ls
Found 2 items
drwxr-xr-x - cloudera cloudera
                                           0 2022-09-11 07:49 hiveclass
drwxr-xr-x - cloudera cloudera
                                           0 2022-09-11 08:08 hiveclasscsv
[cloudera@quickstart hiveclass] hadoop fs -copyFromLocal /home/cloudera/hiveclass/sales order data.csv hiveclass
 copyFromLocal: `hiveclass/sales order data.csv': File exists
[cloudera@quickstart hiveclass]$ hadoop fs -copyFromLocal hiveclass/sales order data.csv hiveclass
 copyFromLocal: `hiveclass/sales order data.csv': No such file or directory
[cloudera@quickstart hiveclass]$ hadoop fs -copyFromLocal /hiveclass/sales order data.csv hiveclasscsv
copyFromLocal: `/hiveclass/sales order data.csv': No such file or directory
[cloudera@quickstart hiveclass]$ hadoop fs -ls /
Found 6 items
drwxrwxrwx - hdfs supergroup
                                          0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - hbase supergroup
                                          0 2022-09-11 07:27 /hbase
drwxr-xr-x - solr solr
                                         0 2017-10-23 09:18 /solr

      drwxrwxrwt
      - hdfs
      supergroup
      0 2022-08-23 12:19 /tmp

      drwxr-xr-x
      - hdfs
      supergroup
      0 2017-10-23 09:17 /user

                                         0 2017-10-23 09:17 /user
                                    0 2017-10-23 09:17 /var
drwxr-xr-x - hdfs supergroup
[cloudera@quickstart hiveclass]$ cd /home/cloudera/hiveclass
[cloudera@quickstart hiveclass]$ ls
sales order data.csv
[cloudera@quickstart hiveclass]$ hadoop fs -copyFromLocal sales order data.csv hiveclass
copyFromLocal: `hiveclass/sales order data.csv': File exists
 [cloudera@quickstart hiveclass]$ pwd
/home/cloudera/hiveclass
[cloudera@quickstart hiveclass]$ ls
sales order data.csv
[cloudera@quickstart hiveclass]$ hadoop fs -copyFromLocal /home/cloudera/hiveclass/sales order data.csv /hiveclass
[cloudera@quickstart hiveclass]$ hive
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive>
```

Create a internal hive table "sales\_order\_csv" which will store csv data sales\_order\_csv .. make sure to skip header row while creating table

Load data from hdfs path into "sales\_order\_csv"

```
cloudera@quickstart:~/hiveclass
       at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
       at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
       at java.lang.reflect.Method.invoke(Method.java:606)
       at org.apache.hadoop.util.RunJar.run(RunJar.java:221)
       at org.apache.hadoop.util.RunJar.main(RunJar.java:136)
FAILED: ParseException line 1:5 cannot recognize input near 'show' 'database' '<EOF>' in ddl statement
nive> show databases;
default
 ime taken: 1.232 seconds, Fetched: 2 row(s)
hive> load data local inpath '/home/cloudera/hiveclass/sales order data.csv' into table sales order csv;
FAILED: SemanticException [Error 10001]: Line 1:82 Table not found 'sales order csv'
hive> load data local inpath '/hiveclass/sales order data.csv' into table sales order csv;
FAILED: SemanticException [Error 10001]: Line 1:68 Table not found 'sales order csv'
hive> CREATE TABLE IF NOT EXISTS monty.sales order csv
   > (ORDERNUMBER int,
   > QUANTITYORDERED int,
   > PRICEEACH float,
   > ORDERLINENUMBER int,
   > SALES int,
   > STATUS string,
   > QTR_ID int,
   > MONTH ID int,
   > YEAR ID int,
   > PRODUCTLINE string,
   > MSRP string,
   > PRODUCTCODE string,
   > STATE string,
   > TERRITORY string,
   > CONTACTLASTNAME string,
   > CONTACTFIRSTNAME string,
   > DEALSIZE string)
   > ROW FORMAT DELIMITED
   > FIELDS TERMINATED BY ','
   > TBLPROPERTIES("skip.header.line.count"="1");
Time taken: 0.769 seconds
hive> load data local inpath '/hiveclass/sales order data.csv' into table monty.sales order csv;
FAILED: SemanticException Line 1:23 Invalid path ''/hiveclass/sales order data.csv'': No files matching path file:/hiveclass/sales order data.csv
hive> load data local inpath '/home/cloudera/hiveclass/sales order data.csv' into table monty.sales order csv;
 pading data to table monty.sales order csv
Table monty.sales order csv stats: [numFiles=1, totalSize=360233]
Time taken: 2.621 seconds
 ive>
```

## Load data from hdfs path into "sales\_order\_csv"

## Load data from "sales\_order\_csv" into "sales\_order\_orc"

```
hive> Insert into table monty.sales order orc select * from monty.sales order csv;
Query ID = cloudera 20220911082929 e28fe1bd-7d26-4a9a-b9b1-a57048a19ffe
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job 1662906115514 0001, Tracking URL = http://quickstart.cloudera:8088/proxy/application 1662906115514 0001/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2022-09-11 08:30:26,455 Stage-1 map = 0%, reduce = 0%
2022-09-11 08:30:56,028 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.81 sec
MapReduce Total cumulative CPU time: 4 seconds 810 msec
Ended Job = job 1662906115514 0001
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to: hdfs://quickstart.cloudera:8020/user/hive/warehouse/monty.db/sales order orc/.hive-staging hive 2022-09-11 08-29-38 054 2550515385589303670-1/-ext-1
Loading data to table monty.sales order orc
Table monty.sales order orc stats: [numFiles=1, numRows=2823, totalSize=33441, rawDataSize=3384777]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 4.81 sec HDFS Read: 367268 HDFS Write: 33525 SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 810 msec
Time taken: 83.005 seconds
```

Checked count of "sales\_order\_csv" "sales order orc"

```
cloudera@quickstart:~/hiveclass
Query ID = cloudera 20220911083535 82b89e14-4db3-4cbb-89cf-2ea4cd494dc9
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Starting Job = job 1662906115514 0002, Tracking URL = http://quickstart.cloudera:8088/proxy/application
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-09-11 08:35:39,536 Stage-1 map = 0%, reduce = 0%
2022-09-11 08:35:59,805 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.03 sec
2022-09-11 08:36:11,411 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 4.6 sec
MapReduce Total cumulative CPU time: 4 seconds 600 msec
Ended Job = job 1662906115514 0002
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.6 sec HDFS Read: 370242 HDFS Write: 5 SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 600 msec
Time taken: 60.907 seconds, Fetched: 1 row(s)
hive> select count(*)from monty.sales order orc;
Query ID = cloudera 20220911083737 706ce679-aac3-45a3-809c-8980f3e23149
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Starting Job = job 1662906115514 0003, Tracking URL = http://quickstart.cloudera:8088/proxy/application
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0003
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-09-11 08:38:07,789 Stage-1 map = 0%, reduce = 0%
2022-09-11 08:38:17,173 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.36 sec
2022-09-11 08:38:31,470 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.34 sec
MapReduce Total cumulative CPU time: 3 seconds 340 msec
Ended Job = job 1662906115514 0003
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.34 sec HDFS Read: 26667 HDFS Write: 5 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 340 msec
Time taken: 37.873 seconds, Fetched: 1 row(s)
```

#### Calculate total sales per year

```
Time taken: 3/.8/3 seconds, retched: 1 row(s)
hive> select YEAR ID, sum(SALES) TOTAL SALES monty.sales order orc
    > group by YEAR ID;
FAILED: ParseException line 1:39 missing EOF at 'monty' near 'TOTAL SALES'
hive> select YEAR ID, sum(SALES) TOTAL SALES from monty.sales order orc
   > group by YEAR ID;
Query ID = cloudera 20220911084141 d1a43427-7c31-4063-9062-308d4eb05ac8
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job 1662906115514 0004, Tracking URL = http://quickstart.cloudera:8088/proxy/application 1662906115514 0004/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0004
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-09-11 08:41:37,865 Stage-1 map = 0%, reduce = 0%
2022-09-11 08:41:46,732 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.22 sec
2022-09-11 08:41:59,071 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.58 sec
MapReduce Total cumulative CPU time: 3 seconds 580 msec
Ended Job = job 1662906115514 0004
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.58 sec HDFS Read: 32526 HDFS Write: 39 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 580 msec
OK
       3516514
2003
2004
       4723531
2005
       1791264
```

## Find a product for which maximum orders were placed

```
hive> SELECT productline
  > FROM
   > (SELECT productline,
              rank() over (order by cast(quantityordered as int) desc) as r
   > FROM monty.sales order orc) S
   > WHERE S.r = 1;
 uery ID = cloudera 20220911090000 a435a294-54c8-4bde-aef0-8809a3e478a7
 otal jobs = 1
 aunching Job 1 out of 1
Number of reduce tasks not specified. Defaulting to jobconf value of: 3
In order to change the average load for a reducer (in bytes):
 n order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
 n order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
 tarting Job = job 1662906115514 0006, Tracking URL = http://quickstart.cloudera:8088/proxy/application 1662906115514 0006/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0006
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 3
 022-09-11 09:01:02,135 Stage-1 map = 0%, reduce = 0%
 022-09-11 09:01:13,277 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.71 sec
  22-09-11 09:01:44,681 Stage-1 map = 100%, reduce = 22%, Cumulative CPU 4.12 sec
  22-09-11 09:01:48,578 Stage-1 map = 100%, reduce = 33%, Cumulative CPU 5.24 sec
  22-09-11 09:01:50,807 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 10.08 sec
MapReduce Total cumulative CPU time: 10 seconds 80 msec
Ended Job = job 1662906115514 0006
MapReduce Jobs Launched:
 tage-Stage-1: Map: 1 Reduce: 3 Cumulative CPU: 10.08 sec HDFS Read: 46821 HDFS Write: 13 SUCCESS
 otal MapReduce CPU Time Spent: 10 seconds 80 msec
Classic Cars
Time taken: 61.61 seconds, Fetched: 1 row(s)
```

```
ive> SELECT a.productline,a.quantityordered FROM monty.sales order orc a left semi join
  > (SELECT MAX(quantityordered)
                                                                                                          Another approach
  > max o FROM monty.sales order orc) b on (a.quantityordered=b.max o);
 uery ID = cloudera 20220911090606 7360d036-f5aa-4fb5-aac2-cbde353caa3c
otal jobs = 3
 aunching Job 1 out of 3
Number of reduce tasks determined at compile time: 1
 n order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
 order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
 n order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
 tarting Job = job 1662906115514 0007, Tracking URL = http://guickstart.cloudera:8088/proxy/application 1662906115514 0007/
ill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0007
 adoop job information for Stage-1: number of mappers: 1; number of reducers: 1
 22-09-11 09:06:49,077 Stage-1 map = 0%, reduce = 0%
 22-09-11 09:06:59,083 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.46 sec
 022-09-11 09:07:11,611 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.56 sec
apReduce Total cumulative CPU time: 3 seconds 560 msec
Ended Job = job 1662906115514 0007
Stage-6 is selected by condition resolver.
 tage-2 is filtered out by condition resolver.
 ecution log at: /tmp/cloudera/cloudera 20220911090606 7360d036-f5aa-4fb5-aac2-cbde353caa3c.log
 22-09-11 09:07:21 Starting to launch local task to process map join; maximum memory = 1013645312
 022-09-11 09:07:23 Dump the side-table for tag: 1 with group count: 1 into file: file:/tmp/cloudera/4ca224ff-60d6-4290-b213-12eb17290340/hive 2022-09-11 09-06
 /-local-10004/HashTable-Stage-4/MapJoin-mapfile01--.hashtable
 D22-09-11 09:07:23 Uploaded 1 File to: file:/tmp/cloudera/4ca224ff-60d6-4290-b213-12eb17290340/hive 2022-09-11 09-06-35 806 601601685006130335-1/-local-10004/i
apfile01--.hashtable (278 bytes)
 022-09-11 09:07:23 End of local task; Time Taken: 1.919 sec.
Execution completed successfully
apredLocal task succeeded
 aunching Job 3 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job 1662906115514 0008, Tracking URL = http://quickstart.cloudera:8088/proxy/application 1662906115514 0008/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0008
Madoop job information for Stage-4: number of mappers: 1; number of reducers: 0
 022-09-11 09:07:38,132 Stage-4 map = 0%, reduce = 0%
 022-09-11 09:07:49,352 Stage-4 map = 100%, reduce = 0%, Cumulative CPU 1.96 sec
MapReduce Total cumulative CPU time: 1 seconds 960 msec
Ended Job = job 1662906115514 0008
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.56 sec HDFS Read: 28375 HDFS Write: 114 SUCCESS
 tage-Stage-4: Map: 1 Cumulative CPU: 1.96 sec HDFS Read: 26640 HDFS Write: 16 SUCCESS
 otal MapReduce CPU Time Spent: 5 seconds 520 msec
 lassic Cars 97
 me taken: 74.619 seconds, Fetched: 1 row(s)
```

## Calculate the total sales for each quarter

```
hive> select qtr id, sum(SALES) TOTAL SALES from monty.sales order orc
   > group by gtr id;
Query ID = cloudera 20220911104040 398d6fe5-8d30-48ec-8d6f-2014ecf11689
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Defaulting to jobconf value of: 3
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Starting Job = job 1662906115514 0010, Tracking URL = http://quickstart.cloudera:8088/proxy/application 1662906115514 0010/
Kill Command = \sqrt{usr/lib/hadoop/bin/hadoop} job -kill job 1662906115514 0010
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 3
2022-09-11 10:40:58,329 Stage-1 map = 0%, reduce = 0%
2022-09-11 10:41:18,134 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.99 sec
2022-09-11 10:42:16,487 Stage-1 map = 100%, reduce = 33%, Cumulative CPU 5.98 sec
2022-09-11 10:42:17,933 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 9.14 sec
2022-09-11 10:42:19,306 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 12.01 sec
MapReduce Total cumulative CPU time: 12 seconds 650 msec
Ended Job = job 1662906115514 0010
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 3 Cumulative CPU: 12.65 sec HDFS Read: 42375 HDFS Write: 40 SUCCESS,
Total MapReduce CPU Time Spent: 12 seconds 650 msec
OK
       1758673
        2350510
       3874271
       2047855
Time taken: 109.229 seconds, Fetched: 4 row(s)
hive>
```

### d. In which quarter sales was minimum

```
Time taken: 232.632 seconds, Fetched: 1 row(s)
  hive> SET mapreduce.job.reduces=3;
  hive> SELECT gtr id, TOTAL SALES FROM (
      > select qtr id, sum(SALES) TOTAL SALES from monty.sales order orc
      > group by gtr id
      > ) M
      > SORT BY TOTAL SALES asc
      > LIMIT 1;
  Query ID = cloudera 20220911111616 a2fa7a7c-ee04-4f6a-a3ab-4c00b33dfdb2
  Total jobs = 3
  Launching Job 1 out of 3
Starting Job = job 1662906115514 0025, Tracking URL = http://quickstart.cloudera:8088/proxy/application
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job 1662906115514 0025
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 1
2022-09-11 \ 11:20:01,366 \ Stage-3 \ map = 0%, \ reduce = 0%
2022-09-11 11:20:18,959 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.98 sec
2022-09-11 11:20:39,833 Stage-3 map = 100%, reduce = 100%, Cumulative CPU 5.7 sec
MapReduce Total cumulative CPU time: 5 seconds 700 msec
Ended Job = job 1662906115514 0025
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 3 Cumulative CPU: 9.92 sec HDFS Read: 39662 HDFS Write: 376 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 3 Cumulative CPU: 10.1 sec HDFS Read: 9130 HDFS Write: 332 SUCCESS
Stage-Stage-3: Map: 1 Reduce: 1 Cumulative CPU: 5.7 sec HDFS Read: 5759 HDFS Write: 10 SUCCESS
Total MapReduce CPU Time Spent: 25 seconds 720 msec
OK
        1758673
```

Total	. Mapkeduce	e CPU Time Spent: 1 minutes 15 seconds 5/0 msec
OK		
2003	1	1357
2003	4	1993
2003	7	1725
2003	10	5515
2004	3	1978
2004	6	2971
2004	9	3171
2004	12	3804
2005	2	3393
2005	5	4357
2003	2	1449
2003	5	2017
2003	8	1974
2003	11	10179
2004	1	3245
2004	4	2077
2004	7	3174
2004	10	5483
2005	3	3852
2003	3	1755
2003	6	1649
2003	9	2510
2003	12	2489
2004	2	3061
2004	5	2618
2004	8	4564
2004	11	10678
2005	1	3395
2005	4	2634
Time	taken: 761	1.147 seconds, Fetched: 29 row(s)

# Find a month for each year in which maximum number of quantities were sold

hive> select distinct a.year\_id,a.month\_id,a.quantityordered from monty.sales\_order\_orc a
> inner join
> (select year\_id, month\_id, max(quantityordered) as quantityordered from monty.sales\_order\_orc group by year\_id,month\_id) b
> on (a.year\_id=b.year\_id and a.month\_id=b.month\_id and a.quantityordered=b.quantityordered);

Ξ.	eu),									
	Total	MapReduce	CPU	Time	Spent:	19	seconds	T30	msec	
	OK									
	2003	2	50							
	2003	5	50							
	2003	11	50							
	2003	12	49							
	2004	1	50							
	2004	7	50							
	2004	10	50							
	2004	11	55							
	2005	3	50							
	2005	4	97							
	2003	3	50							
	2003	6	50							
	2003	7	49							
	2003	9	50							
	2004	2	50							
	2004	5	50							
	2004	8	50							
	2005	1	50							
	2005	5	70							
	2003	1	50							
	2003	4	50							
	2003	8	49							
	2003	10	50							
	2004	3	50							
	2004	4	49							
	2004	6	50							
	2004	9	50							
	2004	12	50							
	2005	2	50							
	m:	1.00	005		-1	-1-	-1- 00	/		