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1. Project Milestone 1

2. Project Milestone 2

3. Project Milestone 3

- 3.1 Indexing and Querying Optimization
- 3.1.1 Queries and SQL script to create index

```
Create Index btree on Person(firstname);
Select * from Person where firstname like 'nu%q%';
create table SportEvent(
EventDate Date,
StartTime Date,
Location varchar(30),
EndTime Date,
Organizer varchar(30),
MainSponsor varchar(50) not null,
Description varchar(100),
CONSTRAINT PKSportEvent PRIMARY KEY (EventDate, StartTime, Location),
CONSTRAINT FKLocation FOREIGN KEY(Location) REFERENCES Venue(Location),
CONSTRAINT FKOrganizer FOREIGN KEY(Organizer) REFERENCES Organizer(Username)
)cluster hashCluster(Organizer);
Create cluster hashCluster (
   Organizer varchar(30))
   size 256 HASHKeys 100;
Select * from SportEvent where organizer = 'umtbverr90633';
```

3.1.2 Why was it chosen?

3.1.3 Performance Measurement

B-Tree Index Before Implement

B-Tree Index After Implement

Hash-Cluster Index Before Implement

Hash-Cluster Index After Implement

```
1 Plan hash value: 4210168801
3 ______
4 | Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time
5 -----
                        | 1317 | 180K| 1 (0)| 00:00:01 |
6 | 0 | SELECT STATEMENT |
7 |* 1 | TABLE ACCESS HASH| SPORTEVENT | 1317 | 180K|
                                     1 (0) | 00:00:01 |
8 -----
10 Predicate Information (identified by operation id):
12
13
  1 - access("ORGANIZER"='umtbverr90633')
14
15 Note
17 - dynamic statistics used: dynamic sampling (level=2)
```

3.1.4 Discussion of Performance Measurement