```
1. Create HBase Table:
create 'flight_info', 'flight_details', 'schedule', 'delay'
2. Insert into HBase Table:
put 'flight_info', 'F001', 'flight_details:number', 'Al101'
put 'flight_info', 'F001', 'schedule:departure', '14:00'
put 'flight_info', 'F001', 'delay:departure_delay', '15'
put 'flight_info', 'F002', 'flight_details:number', 'BA202'
put 'flight_info', 'F002', 'schedule:departure', '16:30'
put 'flight_info', 'F002', 'delay:departure_delay', '5'
3. Update in HBase (same as put):
put 'flight_info', 'F001', 'delay:departure_delay', '20'
4. Delete in HBase:
delete 'flight_info', 'F001', 'delay:departure_delay'
deleteall 'flight_info', 'F001'
5. Retrieve in HBase:
scan 'flight_info'
get 'flight_info', 'F001'
get 'flight_info', 'F001', 'schedule:departure'
6. Hive External Table for HBase:
CREATE EXTERNAL TABLE hive_flight_info (
rowkey STRING,
flight_number STRING,
departure_time STRING,
departure_delay INT
)
STORED BY 'org.apache.hadoop.hive.hbase.HBaseStorageHandler'
```

```
WITH SERDEPROPERTIES (
"hbase.columns.mapping" = ":key,flight_details:number,schedule:departure,delay:departure_delay"
TBLPROPERTIES ("hbase.table.name" = "flight_info");
7. Create Hive Index:
CREATE INDEX delay_index
ON TABLE hive_flight_info (departure_delay)
AS 'COMPACT'
WITH DEFERRED REBUILD;
8. Rebuild Index:
ALTER INDEX delay_index
ON hive_flight_info
REBUILD;
9. View Index Info:
SHOW INDEXES ON hive_flight_info;
SHOW TABLES LIKE '_index_hive_flight_info_delay_index';
SELECT * FROM _index_hive_flight_info_delay_index;
```