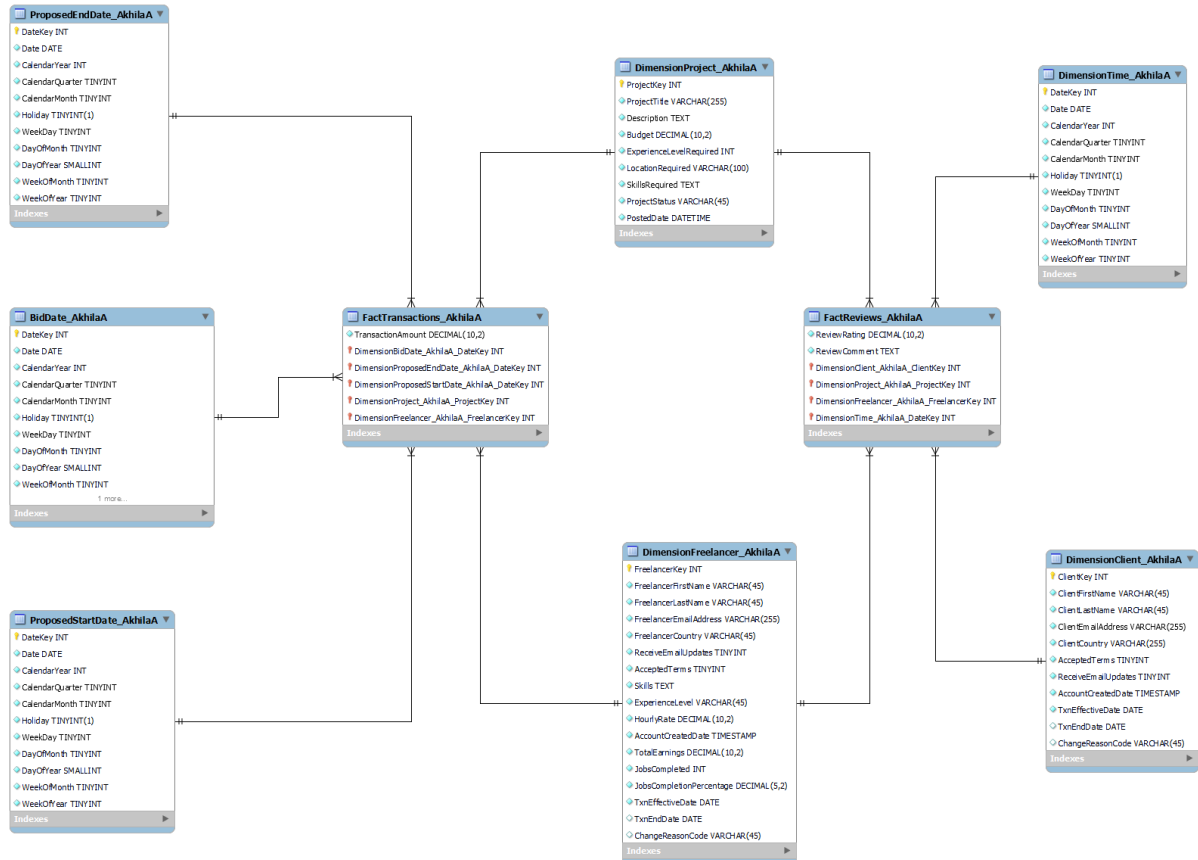# BCIS 5610.001 ENTERPRISE DATA WAREHOUSING

DIMENSIONAL MODELING ASSIGNMENT

Submitted By
Akhila Akula
11697123

Dimensional Model Diagram:

Dimensions:

DimensionClient_AkhilaA, DimensionFreelancer_AkhilaA, DimensionProject_AkhilaA, DimensionTime_AkhilaA

BidDate_AkhilaA, ProposedStartDate_AkhilaA and ProposedEndDate_AkhilaA are aliases of the Time Dimension.

Facts:

FactTransactions_AkhilaA, FactReviews_AkhilaA

Physical Tables with result set:

Table1: DimensionClient_AkhilaA

dimensionclient_akhilaa

```
1 • SELECT * FROM upwork_dm_db.dimensionclient_akhilaa;
```

ClientKey	ClientFirstName	ClientLastName	ClientEmailAddress	ClientCountry	AcceptedTerms	ReceiveEmailUpdates	AccountCreatedDate	TxnEffectiveDate	TxnEndDate	ChangeReasonCode
1	Alice	Johnson	alice.johnson@gmail.com	USA	1	1	2024-01-01 00:00:00	2024-01-01	NULL	NULL
2	Bob	Williams	bob.williams@gmail.com	Canada	1	1	2024-01-02 00:00:00	2024-01-02	NULL	NULL
3	Charlie	Jones	charlie.jones@gmail.com	UK	1	1	2024-01-03 00:00:00	2024-01-03	NULL	NULL
4	Diana	Brown	diana.brown@gmail.com	Australia	1	1	2024-01-04 00:00:00	2024-01-04	NULL	NULL
5	Edward	Davis	edward.davis@gmail.com	India	1	1	2024-01-05 00:00:00	2024-01-05	NULL	NULL
6	Fiona	Lee	fiona.lee@gmail.com	Germany	1	1	2024-01-06 00:00:00	2024-01-06	NULL	NULL
7	George	Clark	george.clark@gmail.com	Brazil	1	1	2024-01-07 00:00:00	2024-01-07	NULL	NULL
8	Hannah	Lewis	hannah.lewis@gmail.com	South Africa	1	1	2024-01-08 00:00:00	2024-01-08	NULL	NULL
9	Ian	Walker	ian.walker@gmail.com	Japan	1	1	2024-01-09 00:00:00	2024-01-09	NULL	NULL
10	Julia	Martinez	julia.martinez@gmail.com	Russia	1	1	2024-01-10 00:00:00	2024-01-10	NULL	NULL

Table2: DimensionFreelancer_AkhilaA

dimensionclient_akhilaa   dimensionfreelancer_akhi...

```
1 • SELECT * FROM upwork_dm_db.dimensionfreelancer_akhilaa;
```

FreelancerKey	FreelancerFirstName	FreelancerLastName	FreelancerEmailAddress	FreelancerCountry	ReceiveEmailUpdates	AcceptedTerms	Skills	ExperienceLevel	HourlyRate	AccountCreatedDate
1	John	Doe	john.doe@gmail.com	USA	1	1	HTML, CSS, JS	Intermediate	50.00	2024-01-01 00:00:00
2	Jane	Smith	jane.smith@gmail.com	Canada	1	1	Python, SQL	Expert	70.00	2024-01-02 00:00:00
3	Tom	Brown	tom.brown@gmail.com	UK	1	1	Java, Spring	Advanced	60.00	2024-01-03 00:00:00
4	Emily	Davis	emily.davis@gmail.com	Australia	1	1	React, Node.js	Intermediate	55.00	2024-01-04 00:00:00
5	Michael	Lee	michael.lee@gmail.com	India	1	1	AWS, Docker	Expert	80.00	2024-01-05 00:00:00
6	Sarah	Taylor	sarah.taylor@gmail.com	Germany	1	1	Python, ML	Advanced	75.00	2024-01-06 00:00:00
7	David	Miller	david.miller@gmail.com	Brazil	1	1	JavaScript, Angular	Intermediate	45.00	2024-01-07 00:00:00
8	Laura	Wilson	laura.wilson@gmail.com	South Africa	1	1	HTML, CSS	Beginner	40.00	2024-01-08 00:00:00
9	Chris	Anderson	chris.anderson@gmail.com	Japan	1	1	Kotlin, Android	Expert	85.00	2024-01-09 00:00:00
10	Sophia	White	sophia.white@gmail.com	Russia	1	1	PHP, Laravel	Intermediate	50.00	2024-01-10 00:00:00

Table3: DimensionProject_AkhilaA

dimensionclient_akhilaa   dimensionfreelancer_akhi...   dimensionproject_akhilaa

```
1 • SELECT * FROM upwork_dm_db.dimensionproject_akhilaa;
```

ProjectKey	ProjectTitle	Description	Budget	ExperienceLevelRequired	LocationRequired	SkillsRequired	ProjectStatus	PostedDate
1	Web Development	Build a website	5000.00	2	USA	HTML, CSS, JS	Open	2024-01-01 00:00:00
2	Data Analysis	Analyze customer data	2000.00	3	Canada	Python, SQL	In Progress	2024-01-02 00:00:00
3	Mobile App	Develop a mobile app	8000.00	1	UK	Flutter, Dart	Completed	2024-01-03 00:00:00
4	SEO Optimization	SEO for website	1500.00	2	USA	SEO, Marketing	Cancelled	2024-01-04 00:00:00
5	Cloud Migration	Migrate data to cloud	10000.00	4	India	AWS, Azure	Open	2024-01-05 00:00:00
6	UI Design	Design website UI	3000.00	2	Australia	Figma, Adobe XD	Open	2024-01-06 00:00:00
7	Backend Development	Build API	7000.00	3	USA	Node.js, Express	Completed	2024-01-07 00:00:00
8	Digital Marketing	Social media strategy	4000.00	1	Germany	Marketing, SMM	Open	2024-01-08 00:00:00
9	Cybersecurity Audit	Audit company security	6000.00	4	UK	Cybersecurity, Compliance	Open	2024-01-09 00:00:00
10	Blockchain Development	Develop blockchain system	12000.00	5	Russia	Blockchain, Solidity	In Progress	2024-01-10 00:00:00

Table4: DimensionTime_AkhilaA

dimensionclient_akhilaa   dimensionfreelancer_akhi...   dimensionproject_akhilaa   dimensiontime_akhilaa

```
1 • SELECT * FROM upwork_dm_db.dimensiontime_akhilaa;
```

DateKey	Date	CalendarYear	CalendarQuarter	CalendarMonth	Holiday	WeekDay	DayOfMonth	DayOfYear	WeekOfMonth	WeekOfYear
1	2024-01-01	2024	1	1	0	1	1	1	1	1
2	2024-01-02	2024	1	1	0	2	2	2	1	1
3	2024-01-03	2024	1	1	0	3	3	3	1	1
4	2024-01-04	2024	1	1	0	4	4	4	1	1
5	2024-01-05	2024	1	1	0	5	5	5	1	1
6	2024-01-06	2024	1	1	0	6	6	6	1	1
7	2024-01-07	2024	1	1	0	7	7	7	1	1
8	2024-01-08	2024	1	1	0	1	8	8	2	2
9	2024-01-09	2024	1	1	0	2	9	9	2	2
10	2024-01-10	2024	1	1	0	3	10	10	2	2

Table5: BidDate_AkhilaA

DateKey	Date	CalendarYear	CalendarQuarter	CalendarMonth	Holiday	WeekDay	DayOfMonth	DayOfYear	WeekOfMonth	WeekOfYear
1	2024-01-01	2024	1	1	0	1	1	1	1	1
2	2024-01-02	2024	1	1	0	2	2	2	1	1
3	2024-01-03	2024	1	1	0	3	3	3	1	1
4	2024-01-04	2024	1	1	0	4	4	4	1	1
5	2024-01-05	2024	1	1	0	5	5	5	1	1
6	2024-01-06	2024	1	1	0	6	6	6	1	1
7	2024-01-07	2024	1	1	0	7	7	7	1	1
8	2024-01-08	2024	1	1	0	1	8	8	2	2
9	2024-01-09	2024	1	1	0	2	9	9	2	2
10	2024-01-10	2024	1	1	0	3	10	10	2	2

Table6: ProposedStartDate_AkhilaA

DateKey	Date	CalendarYear	CalendarQuarter	CalendarMonth	Holiday	WeekDay	DayOfMonth	DayOfYear	WeekOfMonth	WeekOfYear
1	2024-01-01	2024	1	1	0	1	1	1	1	1
2	2024-01-02	2024	1	1	0	2	2	2	1	1
3	2024-01-03	2024	1	1	0	3	3	3	1	1
4	2024-01-04	2024	1	1	0	4	4	4	1	1
5	2024-01-05	2024	1	1	0	5	5	5	1	1
6	2024-01-06	2024	1	1	0	6	6	6	1	1
7	2024-01-07	2024	1	1	0	7	7	7	1	1
8	2024-01-08	2024	1	1	0	1	8	8	2	2
9	2024-01-09	2024	1	1	0	2	9	9	2	2
10	2024-01-10	2024	1	1	0	3	10	10	2	2

Table7: ProposedEndDate_AkhilaA

DateKey	Date	CalendarYear	CalendarQuarter	CalendarMonth	Holiday	WeekDay	DayOfMonth	DayOfYear	WeekOfMonth	WeekOfYear
1	2024-01-01	2024	1	1	0	1	1	1	1	1
2	2024-01-02	2024	1	1	0	2	2	2	1	1
3	2024-01-03	2024	1	1	0	3	3	3	1	1
4	2024-01-04	2024	1	1	0	4	4	4	1	1
5	2024-01-05	2024	1	1	0	5	5	5	1	1
6	2024-01-06	2024	1	1	0	6	6	6	1	1
7	2024-01-07	2024	1	1	0	7	7	7	1	1
8	2024-01-08	2024	1	1	0	1	8	8	2	2
9	2024-01-09	2024	1	1	0	2	9	9	2	2
10	2024-01-10	2024	1	1	0	3	10	10	2	2

Table8: FactTransactions_AkhilaA

TransactionAmount	DimensionBidDate_AkhilaA_DateKey	DimensionProposedEndDate_AkhilaA_D	DimensionProposedStartDate_AkhilaA_I	DimensionProject_AkhilaA_ProjectKey	DimensionFreelancer_AkhilaA_Freelance
5000.00	1	1	1	1	1
2000.00	2	2	2	2	2
8000.00	3	3	3	3	3
1500.00	4	4	4	4	4
10000.00	5	5	5	5	5
3000.00	6	6	6	6	6
7000.00	7	7	7	7	7
4000.00	8	8	8	8	8
6000.00	9	9	9	9	9
12000.00	10	10	10	10	10

Table9: FactReviews_AkhilaA

```
1 •   SELECT * FROM upwork_dm_db.factreviews_akhilaa;
```

ReviewRating	ReviewComment	DimensionClient_AkhilaA_ClientKey	DimensionProject_AkhilaA_ProjectKey	DimensionFreelancer_AkhilaA_Freelance	DimensionTime_AkhilaA_DateKey
4.50	Great work	1	1	1	1
4.00	Good job	2	2	2	2
5.00	Excellent	3	3	3	3
3.50	Satisfactory	4	4	4	4
4.80	Very good	5	5	5	5
4.20	Solid performance	6	6	6	6
4.70	Outstanding	7	7	7	7
4.00	Delivered on time	8	8	8	8
4.90	Superb	9	9	9	9
5.00	Perfect execution	10	10	10	10